## CHAPTER 4.

## STATISTICS OF MANUFACTURES FOR THE STATE, CITIES, AND INDUSTRIES.

Introduction.—This chapter gives the statistics of manufactures for the state of New York for the calendar year 1909, as shown by the Thirteenth Census.

The text summarizes the general results of the census inquiry, presenting a series of special tables in which the main facts printed in the general tables are given in convenient form for the state as a whole and for important industries. It also presents tables in which the statistics for the industries of the state as a whole and for a few important industries are classified by character of ownership, size of establishments, number of wage earners, and prevailing hours of labor, information which could not be presented in general tables for each industry without disclosing the facts for individual establishments.

At the end of the chapter are three general tables. Table I gives for 1909, 1904, and 1899 the number of establishments and of persons engaged in the industries, primary power, capital, salaries and wages, cost of materials, value of products, and value added by manufacture reported for all industries combined and for certain important industries (1) for the state as a whole and (2) for the cities of Albany, Buffalo, New York City (also by boroughs), Rochester, Schenectady, Syracuse, Troy, Utica, and Yonkers. It also gives the same items for all industries combined for every city and village, except Lackawanna, having in 1910 a population of over 10,000 but less than 50,000.

Table II gives statistics in detail for 1909 for the state and for a larger number of industries.

Table III gives statistics in detail for 1909 for the 9 cities having 50,000 inhabitants or more, for all industries combined and selected industries, and for each city having from 10,000 to 50,000 inhabitants for all industries combined.

Scope of census: Factory industries.—Census statistics of manufactures are compiled primarily for the purpose of showing the absolute and relative magnitude of the different branches of industry covered and their growth or decline. Incidentally, the effort is made to present data throwing light upon character of organization, location of establishments, size of establishments, labor force, and similar subjects. When use is made of the data for these purposes it is imperative that due attention should be given to the limitations of the figures. Particularly is this true when the attempt is made to derive from them figures purporting to show average wages, cost of production, or profits. These limitations will be fully discussed in the general report on manufactures for the United States as a whole.

The census of 1909, like that of 1904, was confined to manufacturing establishments conducted under the factory system, as dis-

tinguished from the neighborhood, hand, and building industries. Where statistics for 1899 are given they have been reduced to a comparable basis by eliminating the latter classes of industries. The census does not include establishments which were idle during the entire year, or had a value of products of less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions, or in governmental establishments, except those of the Federal Government.

Period covered.—The returns cover the calendar year 1909, or the business year which corresponds most nearly to that calendar year. The statistics cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—The term "establishment" comprises the factories, mills, or plants which are under a common ownership or control, and for which one set of books of account is kept.

If, however, the plants constituting an establishment as thus defined were not all located within the same city or state, separate reports were secured in order that the separate totals might be included in the statistics for each city or state. In some instances separate reports were secured for different industries carried on in the same establishment.

Classification by industries.—The establishments were assigned to the several classes of industries according to their products of chief value. The products reported for a given industry may thus, on the one hand, include minor products very different from those covered by the class designation, and, on the other hand, may not include the total product covered by this designation, because some part of this product may be made in establishments in which it is not the product of chief value.

Selected industries.—The general tables at the end of this chapter give the principal facts separately for the industries of the state. A selection has been made of the leading industries of the state for more detailed consideration. Sometimes an industry of greater importance than some of those selected is omitted because it comprises so few establishments that these detailed presentations would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to the changes in industrial conditions it is not always possible to classify establishments by industries in such a way as to permit accurate comparison with preceding censuses. Table I, giving comparable figures for 1909, 1904, and 1899, therefore, does not embrace all the industries shown for 1909 in Table II.

Influence of increased prices.—In considering changes in cost of materials, value of products, and value added by manufacture, account should be taken of the general increase in the prices of commodities during recent years. To the extent to which this factor has been influential the figures can not be taken as an exact measure of increase in the volume of business.

Persons engaged in industry.—At the censuses of 1909, 1904, and 1899 the following general classes of persons engaged in manufacturing industries have been distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks, and (5) wage earners. In the censuses of 1904 and 1899 these five classes were shown according to the three main groups: (1) Proprietors and firm members, (2) salaried officials, clerks, etc., and (3) wage earners. The second group included the three classes of salaried officers of corporations, superintendents and

managers, and clerks. In the present census an entirely different grouping is employed: That into (1) proprietors and officials, (2) clerks, and (3) wage earners. The first group includes proprietors and firm members, salaried officers of corporations, and superintendents and managers.

At this census the number of persons engaged in the industries, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for December 15, or the nearest representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where conditions were exceptional, and particularly in the case of certain seasonal industries, such as canning, the December date could not be accepted as typical and an earlier date had to be chosen.

In the case of employees other than wage earners the number thus reported on December 15, or other representative day, has been treated as equivalent to the average for the year, since the number of employees of this class does not vary much from month to month in a given industry. In the case of wage earners the average is obtained in the manner explained in the next paragraph.

Wage earners.—In addition to the report by sex and age of the number of wage earners on December 15, or other representative day, a report was obtained of the number employed on the 15th of each month, without distinction of sex or age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported each month by 12. The average thus obtained represents the number of wage earners that would be required to perform the work done if all were constantly employed during the entire year. Accordingly, the importance of any industry as an employer of labor is believed to be more accurately measured by this average than by the number employed at any one time or on a given day.

The number of wage earners reported for the representative day, though given for each separate industry, is not totaled for all industries combined, because, in view of the variations of date, such a total is believed not to be significant. It would involve more or less duplication of persons working in different industries at different times, would not represent the total number employed in all industries at any one time, and would give an undue weight to seasonal industries, as compared with industries in continual operation.

In particular, totals by sex and age for the wage earners reported for the representative day would be misleading because of the undue weight given to seasonal industries, in some of which, such as canning and preserving, the distribution of the wage earners by sex and age is materially different from that in most industries of more regular operation. In order to determine as nearly as possible the sex and age distribution of the average number of wage earners in the state as a whole, the following procedure has been adopted:

The percentage distribution by sex and age of the wage earners in each industry, for December 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. This percentage has been applied to the average number of wage earners for the year in that industry, to determine the average number of men, women, and children employed. These calculated averages for the several industries have been added up to give the average distribution for the state as a whole.

In 1899 and 1904 the schedule called for the average number of wage earners of each sex 16 years and over, and the total number under 16 years of age, for each month, and these monthly statements were combined in an annual average. Comparatively few manufacturing concerns, however, keep their books in such way as to show readily the number of men, women, and children (under 16) employed each month. These monthly returns by sex and age were, in fact, largely estimates. It was believed that a more accurate and reliable sex and age distribution could be secured by taking as a basis of estimate the actual numbers employed on a single day.

Prevailing hours of labor.—The census made no attempt to ascertain the number of employees working a given number of hours per week. The inquiry called merely for the prevailing practice

followed in each establishment. Occasional variations in hours in an establishment from one period to another are disregarded, and no attention is given to the fact that a limited number of employees may have hours differing from those of the majority. In the tables all the wage earners of each establishment are counted in the class within which the establishment itself falls. In most establishments, however, all or practically all the employees work the same number of hours, so that these figures give a substantially correct picture of the hours of labor in manufacturing industries.

Capital.—For reasons stated in prior census reports, the statistics of capital secured by the census canvass are so defective as to be without value, except as indicating very general conditions. The instructions on the schedule for securing capital were as follows:

The answer should show the total amount of capital, both owned and borrowed, on the last day of the business year reported. All the items of fixed and live capital may be taken at the amounts carried on the books. If land or buildings are rented, that fact should be stated and no value given. If a part of the land or buildings is owned, the remainder being rented, that fact should be so stated and only the value of the owned property given. Do not include securities and loans representing investments in other enterprises.

Materials.—Cost of materials refers to the materials used during the year, which may be more or less than the materials purchased during the year. The term materials includes fuel, rent of power and heat, mill supplies, and containers, as well as materials forming a constituent part of the product. Fuel includes all fuel used, whether for heat, light, or power, or for the process of manufacture.

Expenses.—Under "Expenses" are included all items of expense incident to the year's business, except interest, whether on bonds or other forms of indebtedness, and allowances for depreciation.

Value of products.—The value of products for any industry includes the total value of all products manufactured in establishments whose products of chief value fall under the industry designation. The amounts given represent the selling value at the factory of all products manufactured during the year, which may differ from the value of the products sold. Amounts received for work on materials furnished by others are included.

Value added by manufacture.—The value of products is not a satisfactory measure of either the absolute or the relative importance of a given industry, because only a part of this value is actually created by the manufacturing process carried on in the industry itself. Another part of it, and often by far the larger part, represents the value of the materials used, which have been produced by agriculture or mining or by other industrial establishments. For many purposes, therefore, the best measure of the importance of different classes of industry is the value created as the result of the manufacturing operations carried on within the industry. This value is obtained by deducting the cost of the materials consumed from the value of the product. The figure thus obtained is termed in the census reports "value added by manufacture."

There is a further statistical advantage which "value added" has over gross value of products. In combining the value of products for all industries the value of products produced by one establishment and used as materials in another is duplicated, and the total, therefore, gives a greatly exaggerated idea of the wealth created. No such duplication takes place in the total "value added by manufacture."

Cost of manufacture and profits.—Census data do not show the entire cost of manufacture, and consequently can not be used to show profits. No account has been taken of interest and depreciation. Even if the amount of profit could be determined by deducting the expenses from the value of the products, the rate of profit on the investment could not properly be calculated, because of the very defective character of the returns regarding capital.

Primary power.—The figures given for this item show the total of the primary power used by the establishments. They do not cover the power developed by motors operated by such power, the inclusion of which would evidently result in duplication.

Location of establishments.—The Census Bureau has classified establishments by their location in cities or classes of cities. In interpreting these figures due consideration should be given to the fact that often establishments are located just outside the boundaries of cities, and are necessarily so classified, though locally they are looked upon as constituting a part of the manufacturing interests of the cities.

Laundries.—The census of 1909 was the first to include statistics of laundries. The reports are confined to establishments using mechanical power. The data are presented separately and are not included in the general total for manufacturing industries.

Custom sawmills and gristmills.—In order to make the statistics for 1909 comparable with those for 1904 the data for these mills have been excluded from all the tables presenting general statistics.

## INDUSTRIES IN GENERAL.

General character of the state.—New York, with a gross area of 49,204 square miles, of which 1,550 square miles represent water surface, ranks twenty-ninth in size among the states of the Union. Its population in 1910 was 9,113,614, as compared with 7,268,894 in 1900 and 6,003,174 in 1890. It has ranked first among the states and territories as regards population since 1820. In density of population New York is the fifth state in the Union, having 191.2 persons per square mile in 1910, the corresponding figure for 1900 being 152.5. Seventy-eight and eight-tenths per cent of the entire population of the state in 1910 resided in incorporated places having a population of 2,500 or over, as against 72.9 per cent in 1900.

In 1910 the following 9 cities in the state had a population of over 50,000: New York City, 4,766,883; Buffalo 423,715; Rochester, 218,149; Syracuse, 137,249; Albany 100,253; Yonkers, 79,803; Troy, 76,813; Utica, 74,419; and Schenectady, 72,826. There were also 42 cities and villages having a population of over 10,000 but less than 50,000. The 51 cities and villages having more than 10,000 inhabitants contained 74.3 per cent of the total population of the state, while only 4.5 per cent resided in incorporated places having between 2,500 and 10,000 inhabitants.

The geographic position and topography of New York, as well as the abundant natural wealth of its fields, forests, mines, and quarries, have contributed to its industrial development and have been instrumental in making it the leading manufacturing state of the Union. The Mohawk, upper Hudson, Black, and Genesee Rivers and Niagara Falls furnish the major part of the water power, which, either directly or through the agency of transmitted electric current, serves a large percentage of the manufacturing establishments of the state. The Hudson River, the Erie Canal, connecting Lake Erie with the Hudson River, and a system of canals which connect Lake Ontario with the Erie Canal and Lake Champlain with the Hudson River, form a network of inland waterways for the exchange of various commodities within the state and furnish excellent communication by water from Duluth and Chicago in the West and from various points in Canada on the north to New York City, thereby affording an outlet for coastwise and foreign commerce through the most important seaport in the United States. A large majority of the commercial and manufacturing centers of the state are located on

<sup>1</sup> For the names and the population of these cities and villages, see the table on p. 702.

these waterways or on the connecting waterways which border the state. The 8,448 miles <sup>2</sup> of steam-railway trackage within the state also afford excellent transportation facilities.

Importance and growth of manufactures.—Although New York has important interests in agriculture and mining, its predominance is most marked in manufacturing. Since the completion of the Erie Canal in 1825, New York has held the foremost rank in this respect, though since 1849, when the first authoritative census of manufactures was taken, the proportion which the state has contributed to the total value of manufactured products in the entire United States has decreased somewhat. This proportion was 23.3 per cent in 1849 and only 16.3 per cent in 1909.

In 1849 the total value of the manufactured products of New York, including those of the neighborhood and hand industries, amounted to \$237,597,249, while in 1909, exclusive of the value of the products of the neighborhood and hand industries, it reached a total of \$3,369,490,192, or more than fourteen times that in 1849. During the same period the population of the state increased 194.2 per cent. In 1849 an average of 199,349 wage earners, representing 6.4 per cent of the total population were employed in manufactures, while in 1909 an average of 1,003,981 wage earners, or 11 per cent of the total population, were so engaged. During this period the gross value of products per capita of the total population of the state increased from \$77 to \$370.

The table on page 688 gives the most important figures relative to all classes of manufactures combined for 1909, 1904, and 1899, together with the percentages of increase from census to census.

In 1909 the state of New York had 44,935 manufacturing establishments, which gave employment to an average of 1,203,241 persons during the year and paid out \$743,263,000 in salaries and wages. Of the persons employed, 1,003,981 were wage earners. These establishments turned out products to the value of \$3,369,490,000, to produce which materials costing \$1,856,904,000 were utilized. The value added by manufacture was thus \$1,512,586,000, which figure, as explained in the Introduction, best represents the net wealth created by manufacturing operations during the year.

The totals presented in the table on page 688 do not include the statistics for five establishments operated by

 $<sup>^{2}</sup>$  Interstate Commerce Commission, Statistics of Railways in the United States, 1909.

the Federal Government—the United States Naval Clothing Factory and the United States navy yard at Brooklyn, the United States Lighthouse Establishment at Tompkinsville, the Watervliet Arsenal, and the West Point gas plant. In 1909 these plants employed an average of 4,095 wage earners and reported products valued at \$9,330,918.

In general, this table shows that the manufacturing industries of New York as a whole developed at about the same rate during each of the two five-year periods covered by the table. The earlier five-year period, 1899–1904, shows the larger percentages of increase in value added by manufacture and in number of wage

earners, but the later period, 1904–1909, shows the greater gains in number of establishments and in value of products. During this latter period the number of establishments increased 20.8 per cent and the average number of wage earners 17.2 per cent, while the value of products increased 35.4 per cent and the value added by manufacture 32.7 per cent.

As pointed out in the Introduction, it would be improper to infer that manufactures increased in volume to the full extent indicated by these figures relating to values, since the increase shown is certainly due, in part, to the increase that has taken place in the prices of commodities.

		NUMBER OR AMOUNT		PER CENT O	F INCREASE
	1909	1904	1899	1904-1909	1899-1904
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 (value of products less cost of materials).	1, 203, 241 47, 569 151, 691 1,003, 981 1,997, 662 \$2,779, 497, 000 2,986, 241, 000 743, 263, 000 186, 032, 000 557, 231, 000	37, 194 996, 725 41, 766 98, 012 856, 947 1, 516, 592 \$2, 031, 460, 000 2, 191, 339, 000 541, 160, 000 111, 145, 000 430, 015, 000 1, 348, 603, 000 301, 576, 000 2, 488, 346, 000 1, 139, 743, 000	35, 957 (1) (1) (88, 030 726, 909 1, 099, 931 \$1, 523, 503, 000 1, 617, 605, 000 414, 064, 000 76, 740, 000 337, 324, 000 1, 018, 377, 000 1, 85, 164, 000 1, 871, 831, 000 853, 454, 000	20. 8 20. 7 13. 9 54. 8 17. 2 31. 7 36. 8 36. 3 37. 3 67. 4 29. 6 37. 7 28. 0 35. 4	3. 4 44. 1 17. 9 37. 9 33. 3 35. 5 30. 7 44. 8 27. 5 32. 4 62. 9 32. 9 33. 5

1 Figures not available.

The relative importance and growth of the leading manufacturing industries of the state are shown in the table on pages 689 and 690.

It should be borne in mind, in considering that table, that the value of products in some of the industries involves a certain amount of duplication, due to the use of the products of one establishment in the industry as material for other establishments.

The table referred to gives separate statistics for 139 industries or industry groups for which products valued at more than \$1,000,000 were reported in 1909. These industries include 12, with products exceeding \$50,000,000 in value; 20, with products between \$25,000,000 and \$50,000,000 in value; and 26, with products between \$10,000,000 and \$25,000,000, making an aggregate of 58 industries with a value of products in excess of \$10,000,000 each. The other industries shown separately comprise 30 with products between \$5,000,000 and \$10,000,000 in value, and 51 with products between \$1,000,000 and \$5,000,000.

In addition to the industries presented separately in the table, there were 32 other industries in the state which reported products in 1909 to the value of \$1,000,000 or over, comprising 5, with products exceeding \$10,000,000 in value; 2, with products between \$5,000,000 and \$10,000,000 in value; and 25, with products between \$1,000,000 and \$5,000,000 in value. These industries are included under the head

of "All other industries" in the table, in some instances, because the operations of individual establishments would be disclosed if they were shown separately; in others, because the returns do not present properly the true condition of the industry, for the reason that it is more or less interwoven with one or more other industries; and in still others, because comparative statistics can not be presented for either 1904 or 1899 on account of changes in classification or because such figures would disclose the operations of individual establishments.1 Of the industries which are not presented separately in this table, the refining of cane sugar is of special importance, as New York contributed over one-third of the total value of products for the industry in 1909. The 1909 statistics for the manufacture of moving pictures and of signs and advertising novelties are presented separately in Table II, page 766.

<sup>1</sup> These industries are:

Awnings, tents, and sails.
Baking powders and yeast.
Belting and hose, woven and rubber.
Billiard tables and materials.
Coke.
Flavoring extracts.
Glucose and starch.
Glue.
Grease and tallow.
Iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills.
Iron and steel, doors and shutters.
Iron and steel forgings.
Labels and tags.
Liquors, distilled.
Locomotives, not made by railroad com-

Matches.
Mineral and soda waters.
Moving pictures.
Mucilage and paste.
Oil, not elsewhere specified.
Paving materials.
Pencils, lead.
Petroleum, refining.
Roofing materials.
Signs and advertising novelties.
Smelting and refining, copper.
Sporting and athletic goods.
Sugar refining, not including beet sugar.
Sulphuric, nitric, and mixed acids.
Tin foil.
Upholstering materials.
Waste.

There are a large number of industries in New York which are of considerable importance, not only in the state, but in the United States. Furthermore, it will be seen from the following table, or still more clearly from Table II, where figures are given separately for an even larger number of industries, that there is a

wide diversity in the manufacturing activities of the state. With the exception of Pennsylvania, the diversity is greater in New York than in any other state in the Union. Of the 264 classifications used in the presentation of the 1909 manufactures, statistics for the country as a whole, 243 were represented in New York.

		WAGE EA	RNERS.	VALUE OF PRO	DUCTS.	VALUE ADDE MANUFACTU		PER	CENT OF	INCREASE	i.1
INDUSTRY.	Num- ber of estab- lish- ments.	Average	Per cent	Amount.	Per cent	Amount	Per	Valu produ		Value ad manufa	
	number.		distri- bution.	·		Amount.	distri- bution.	1904- 1909	1899- 1904	1904- 1909	1899- 1904
All industries.		1,003,981	100.0	\$3,369,490,000	100.0	\$1,512,586,090	100.0	35.4	32. 9	432.7	33.5
Clothing, women's. Clothing, men's, including shirts. Printing and publishing Foundry and machine-shop products Slaughtering and meat packing.	3,083 2,983 4,426 1,872 238	98,104 91,363 63,120 64,066 6,110	9.8 9.1 6.3 6.4 0.6	272,518,000 266,075,000 216,946,000 154,370,000 127,130,000	8.1 7.9 6.4 4.6 3.8	124,376,000 130,748,000 160,452,000 92,749,000 16,962,000	8. 2 8. 6 10. 6 6. 1 1. 1	57. 0 42. 0 31. 6 20. 7 68. 3	62. 4 25. 9 39. 6 -0. 2 29. 4	52. 0 41. 3 28. 0 18. 2 93. 4	63. 5 25. 4 44. 0 11. 7 21. 3
Bread and other bakery products. Liquors, malt. Tobacco manufactures Lumber and timber products. Flour-mill and gristmill products.	3,978 184 3,371 2,263 983	21,357 8,731 30,019 27,471 2,990	2. 1 0. 9 3. 0 2. 7 0. 3	86, 233, 000 77, 720, 000 76, 662, 000 72, 530, 000 69, 802, 000	2. 6 2. 3 2. 3 2. 2 2. 1	33,495,000 58,837,000 45,321,000 30,825,000 9,332,000	2. 2 3. 9 3. 0 2. 0 0. 6	41. 3 25. 4 16. 9 17. 6 28. 0	41.8 10.4 22.2 16.9 51.8	35. 9 27. 6 12. 3 5. 5 30. 1	26. 4 3. 1 16. 8 30. 9 47. 2
Hosiery and knit goods. Millinery and lace goods. Electrical machinery, apparatus, and supplies. Paper and wood pulp. Boots and shoes, including cut stock and findings		35,950 21,078 18,972 12,073 21,627	3. 6 2. 1 1. 9 1. 2 2. 2	67, 130, 000 52, 106, 000 49, 290, 000 48, 860, 000 48, 186, 000	2. 0 1. 5 1. 5 1. 4 1. 4	28, 453, 000 24, 971, 000 21, 807, 000 17, 093, 000 19, 211, 000	1.9 1.6 1.4 1.1 1.3	44. 9 58. 6 39. 4 29. 4 28. 4	28. 6 56. 1 55. 8 41. 3 33. 4	57. 1 56. 5 24. 6 14. 4 27. 0	14. 9 61. 8 72. 3 23. 0 39. 9
Butter, cheese, and condensed milk. Gas, illuminating and heating. Furnishing goods, men's. Furniture and refrigerators. Fur goods.	1 550	2,866 6,422 18,186 20,281 8,244	0.3 0.6 1.8 2.0 0.8	42, 458, 000 42, 347, 000 42, 197, 000 41, 929, 000 41, 301, 000	1.3 1.3 1.3 1.2 1.2		0.4 1.8 1.4 1.5	36. 7 19. 9 43. 8 43. 0 57. 4	16. 9 68. 8 18. 9 65. 8	48. 0 12. 1 40. 6 34. 3 55. 9	4. 5 61. 9 18. 7 55. 1
Iron and steel, steel works and rolling mills	25 686	10,091 14,689	1.0 1.5	39,532,000 38,452,000	1. 2 1. 1	13,643,000 17,417,000	$0.9 \\ 1.2$	86. 2 40. 8	140.9 41.6	71. 2 27. 1	71. 6 36. 2
Patent medicines and compounds and druggists' preparations.  Chemicals  Musical instruments, pianos and organs and materials.	743 74 184	4,728 5,746 11,938	0.5 0.6 1.2	37,343,000 35,346,000 33,680,000	1. 1 1. 0 1. 0	24,754,000 15,637,000 16,185,000	1.6 1.0 1.1	30. 4 53. 5 44. 0	7. 9 43. 9 58. 6	24. 8 55. 4 30. 1	21. 0 37. 4 52. 0
Automobiles, including bodies and parts.  Paint and varnish.  Leather, tanned, curried, and finished  Iron and steel, blast furnaces.  Silk and silk goods, including throwsters.	1	9,861 3,047 5,688 2,298 12,903	1. 0 0. 3 0. 6 0. 2 1. 3	30, 980, 000 28, 559, 000 27, 642, 000 26, 621, 000 26, 519, 000	0. 9 0. 8 0. 8 0. 8 0. 8	16,072,000 10,664,000 6,701,000 5,704,000 12,570,000	1.1 0.7 0.4 0.4 0.8	627. 2 13. 7 27. 7 208. 3 31. 4	834. 2 33. 1 -6. 7 71. 1 58. 8	583. 0 29. 2 24. 8 152. 3 29. 7	731.4 25.4 -7.2 47.0 57.9
Carpets and rugs, other than rag. Confectionery Woolen, worsted, and felt goods, and wool hats. Soap. Brass and bronze products.	16 249 64 67 247	11,898 8,570 9,460 2,976 6,651	1, 2 0, 9 0, 9 0, 3 0, 7	25,606,000 25,540,000 23,739,000 23,583,000 22,184,000	0.8 0.8 0.7 0.7 0.7	12, 291, 000 9, 896, 000 8, 995, 000 7, 971, 000 9, 045, 000	0.8 0.7 0.6 0.5 0.6	32. 0 40. 0 21. 9 76. 0	29. 1 34. 0 23. 4		12.6 41.5 23.4
Cars and general shop construction and repairs by steam-railroad companies. Artificial flowers and feathers and plumes. Leather goods. Jewelry. Cotton goods, including cotton small wares.	1	16, 454 8, 493 7,586 5,379 10,663	0. 8 0. 8 0. 5	21,726,000 21,162,000 20,997,000 20,363,000 20,352,000	0. 6 0. 6 0. 6 0. 6 0. 6	8,904,000 9,365,000 9,930,000	0.8 0.6 0.6 0.7 0.6	21. 5 429. 4 21. 9 64. 8 51. 5	10. 4 -20. 3 42. 5 20. 6 24. 5	251. 4 19. 2	24. 5 -10. 0 41. 3 29. 4 -5. 5
Canning and preserving Photographic apparatus and materials. Marble and stone work Coffee and spice, reasting and grinding. Food preparations	790 42	7,075 4,088 6,939 1,519 3,023	0. 4 0. 7 0. 2	19,040,000 18,764,000 17,921,000 17,430,000 17,324,000	0, 6 0, 6 0, 5 0, 5 0, 5	13,797,000 10,845,000 4,776,000	0. 5 0. 9 0. 7 0. 3 0. 5	13. 2 97. 0 10. 1 -35. 4 51. 9	34. 5 127. 4 11. 9 20. 1 50. 4	103. 5 2. 9 11. 5	46.6 187.0 16.8 -1.3 49.9
Oil, linseed Agricultural implements Gloves and mittens, leather Boxes, fancy and paper Carriages and wagons and materials	57 225	566 5,717 6,287 11,538 6,116	0. 6 0. 6 1. 1	14, 336, 000 14, 234, 000	0. 5 0. 4 0. 4 0. 4 0. 4	8,556,000 6,313,000 8,121,000	0. 2 0. 6 0. 4 0. 5 0. 5	55. 4 14. 8 44. 1 11. 7 -9. 2	17. 6 23. 8 8. 3 52. 1 4. 6	16. 1 48. 5 13. 0	109. 3 29. 0 -6. 1 42. 8 4. 4
Gas and electric fixtures and lamps and reflectors Cordage and twine and jute and linen goods Paper goods, not elsewhere specified Shipbuilding, including boat building. Malt	16 107	6,017 5,952 4,303 5,644 524	0. 6 0. 4 0. 6	12, 215, 000 12, 111, 000 11, 417, 000	0. 4 0. 4 0. 3 0. 3	4,626,000 5,325,000 7,492,000	0. 5 0. 3 0. 4 0. 5 0. 1	45. 2 -23. 0 59. 7 1. 3 57. 0	44. 4 35. 9 24. 8 30. 3 27. 1	-12. 0 57. 6 3. 0	38. 9 26. 4 26. 5 31. 5 25. 5
Typewriters and supplies Hats, fur-felt. Wire Dyeing and finishing textiles. Buttons	43 44 7 81 165	4,538 5,013 1,439 5,252 6,126	0. 5 0. 1 0. 5	10, 219, 000 10, 065, 000 9, 673, 000	0. 3 0. 3 0. 3	4,813,000 2,241,000 5,534,000	0. 1 0. 4 0. 3	121. 8 143. 5	20.3	12. 9 60. 5 83. 1	35. 9 65. 3
Smelting and refining, not from the ore Stoves and furnaces, including gas and oil stoves Rubber goods, not elsewhere specified Lapidary work Brick and tile	15 58 53	284 4, 247 2, 066 499 8, 080	0. 4 0. 2 (2)	8,784,000 8,660,000	0. 3 0. 3 0. 3	5,432,000 3,125,000 2,341,000	0. 4 0. 2 0. 2	6. 3 17. 3	55. 8 34. 2	51. 4 -4. 3 2 82. 5	30.1
Fancy articles, not elsewhere specified	53 244	2,313 3,065 3,348	0. 2 0. 3 0. 3	7,861,000 7,859,000 7,826,000 7,789,000	0.2	3,361,000 4,270,000 3,951,000	0. 2 0. 3 0. 3 0. 1	676. 8 19. 4 13. 6 22. 2	25. 2 23. 1 -17. 4 14. 3	515. 6 1 21. 3 5 10. 3 11. 7	6. 0 14. 1 -11. 6 22. 3

<sup>&</sup>lt;sup>1</sup> Percentages are based on figures in Table I; a minus sign (—) denotes decrease. Where the percentages are omitted, comparable figures can not be given. <sup>2</sup> Less than one-tenth of 1 per cent.

	Num-	WAGE EA	ARNERS.	VALUE OF PE	ODUCTS.	VALUE ADD MANUFACT		PE	R CENT O	f INCREA	SE.1
INDUSTRY.	ber of estab- lish- ments.	Average number.	Per cent distri-	Amount.	Per cent distri-	Amount.	Per cent distri-		lue of lucts.	Value a manuf	dded by acture.
			bution.		bution.		bution.	1904- 1909	1899- 1904	1904- 1909	1899- 1904
Hats, strawCooperage and wooden goods, not elsewhere specified. Cars and general shop construction and repairs by street-railroad companies	46 364 62	2,508 2,611	0. 2 0. 3	\$7,617,000 7,526,000	0. 2 0. 2	\$3,624,000 2,596,000	0. 2 0. 2	190. 2 0. 4	32. 7	186. 3 -3. 3	17.9
Cars and general shop construction and repairs by street-railroad companies. Umbrellas and canes Belting and hose, leather	142 28	4,480 1,919 604	0. 4 0. 2 0. 1	6, 640, 000 6, 427, 000 6, 420, 000	0. 2 0. 2 0. 2	3,460,000 2,296,000 2,319,000	0. 2 0. 2 0. 2	71. 1 36. 4 11. 7	10. 4 -9. 8 74. 6	34. 0 23. 8 16. 8	29. 9 2. 9 122. 3
Brooms and brushes. Cutlery and tools, not elsewhere specified Clocks and watches, including cases and materials Babbitt metal and solder. Cars, steam-railroad, not including operations of rail- road companies.	171 161 27 24	2,897 4,478 2,467 192 2,387	0. 3 0. 4 0. 2 (2) 0. 2	6,290,000 6,218,000 6,184,000 6,123,000	0. 2 0. 2 0. 2 0. 2	3,110,000 4,365,000 3,903,000 1,052,000	0. 2 0. 3 0. 3 0. 1	16. 4 35. 8 50. 1 23. 3	24. 6 81. 8 -16. 5 61. 4	21. 8 31. 3 106. 9 59. 6	23. 4 91. 0 -5. 9 84. 1
Mattresses and spring beds. Wirework, including wire rope and cable. Chocolate and cecoa products. Bags, paper. Window shades and fixtures.	168	1,621 1,649 755 1,032 911	0. 2 0. 2 0. 2 0. 1 0. 1 0. 1	5,940,000 5,899,000 5,875,000 5,823,000 5,613,000 5,476,000	0. 2 0. 2 0. 2 0. 2 0. 2 0. 2 0. 2	2,514,000 2,438,000 2,090,000 1,656,000 1,680,000 1,530,000	0. 2 0. 1 0. 1 0. 1	39. 7 28. 7 61. 4 42. 8 96. 4	-18.7 24.3 50.1 50.2 68.6	68. 0 37. 5 —5. 5 17. 9 57. 6	0. 9 4. 4 78. 0 85. 0 85. 1
Wall paper Corsets Dentists' materials Bags, other than paper Glass, cutting, staining, and ornamenting	13 47 15 21 156	1,602 2,436 266 1,000 3,118	0. 2 0. 2 0. 2 (²) 0. 1 0. 3	5,277,000 5,161,000 5,114,000 4,986,000 4,847,000	0. 2 0. 2 0. 2 0. 2 0. 1 0. 1	2,803,000 2,677,000 537,000 870,000 3,178,000	0. 1 0. 2 0. 2 (2) 0. 1 0. 1	89. 9 -5. 7 208. 1 40. 1 36. 7 14. 0	-2.1 16.3 4.4 505.1 62.1 19.5	72. 1 (2) 153. 0 -42. 1 36. 8 8. 3	23. 0 22. 3 291. 6 15. 2 36. 3
Glass Dyestuffs and extracts Wall plaster Fertilizers Dairymen's, poulterers', and apiarists' supplies	24 18 31 15 31	3,114 418 1,337 908 802	0.3 (2) 0.1 0.1 0.1	4,509,000 4,505,000 4,494,000 4,251,000 4,213,000	0. 1 0. 1 0. 1 0. 1 0. 1	3,350,000 1,638,000 2,069,000 1,596,000 2,928,000	0. 2 0. 1 0. 1 0. 1 0. 2	5. 4 66. 5 20. 3 104. 2 67. 8	55. 2 28. 1 -33. 9	16. 8 55. 4 26. 1 113. 4 136. 5	54. 4 24. 3 -39. 6
Ink, printing. Optical goods. Blacking and cleansing and polishing preparations. Hat and cap materials. Loc, manufactured.	29 51 88 32 89	525 2,047 658 965 1,124	0.1 0.2 0.1 0.1 0.1	4,059,000 3,996,000 3,836,000 3,835,000 3,808,000	0. 1 0. 1 0. 1 0. 1 0. 1	2,181,000 2,771,000 2,009,000 1,060,000 2,764,000	0. 1 0. 2 0. 1 0. 1 0. 2	75. 0 113. 7 41. 1 13. 4 117. 7	63. 6 6. 2 42. 1 93. 1 66. 4	79. 2 132. 5 54. 4 0. 3 135. 8	68. 3 -0. 2 34. 8 113. 5 49. 9
Coffins, burial cases, and undertakers' goods Steam packing. Looking-glass and picture frames Oilcloth and linoleum Pottery, terra-cotta, and fire-clay products	34 36 140 4 39	1, 235 901 1, 491 1, 102 2, 367	0.1 0.1 0.1 0.1 0.2	3,785,000 3,783,000 3,555,000 3,522,000 3,403,000	0. 1 0. 1 0. 1 0. 1 0. 1	1,714,000 1,812,000 2,092,000 1,356,000 2,528,000	0. 1 0. 1 0. 1 0. 1 0. 2	2. 9 61. 0 28. 2	36. 1 270. 5 -10. 7	-4. 4 27. 1 14. 5	28. 2 336. 1 0. 1
Wood distillation, not including turpentine and rosin.  Stationery goods, not elsewhere specified Instruments, professional and scientific Mirrors Pens, fountain, stylographic, and gold	29 55 87 47 30	593 1,243 1,964 983 730	0. 1 0. 1 0. 2 0. 1 0. 1	3,402,000 3,344,000 3,308,000 3,262,000 3,219,000	0. 1 0. 1 0. 1 0. 1 0. 1	883,000 1,734,000 2,333,000 1,263,000 1,656,000	0. 1 0. 1 0. 2 0. 1 0. 1	1. 3 32. 1 62. 0 12. 8 65. 5	18. 2 23. 2 -26. 7 64. 6	0.7 19.3 50.6 25.0 54.9	16. 5 27. 0 -30. 1 56. 7
Pipes, tobacco. Photo-engraving slt Sld And silver, reducing and refining, not from the ore. Emery and other abrasive wheels.	30 66 33 10 10	1,663 1,395 1,525 42 719	0. 2 0. 1 0. 2 (2) 0. 1	3,212,000 2,908,000 2,897,000 2,603,000 2,561,000	0. 1 0. 1 0. 1 0. 1 0. 1	1,780,000 2,353,000 1,702,000 207,000 1,481,000	0. 1 0. 2 0. 1 (2) 0. 1	70. 8 46. 3 -8. 5 -31. 1 3, 360. 8	11. 2 68. 6 17. 3 -16. 6	86. 0 49. 4 -14. 1 137. 9 2, 642. 6	8. 4 64. 9 13. 8 -59. 3
Cordials and sirups. Aodels and patterns, not including paper patterns Vood, turned and carved Jement Trearms and ammunition	38 136 159 15 8	294 1,082 1,279 1,443 1,781	(2) 0.1 0.1 0.1 0.2	2,513,000 2,461,000 2,422,000 2,409,000 2,374,000	0. 1 0. 1 0. 1 0. 1 0. 1	1,023,000 1,841,000 1,503,000 1,609,000 1,866,000	0. 1 0. 1 0. 1 0. 1 0. 1	127. 4 95. 2 86. 5 -23. 2 37. 5	259. 9 28. 2 —15. 6	143. 0 96. 1 74. 8 -24. 2 33. 5	198. 6 24. 5 16. 5
inegar and cider. oxes, cigar tereotyping and electrotyping aper patterns. ead, bar, pipe, and sheet.	277 56 47 16 9	529 1,531 905 761 185	0. 1 0. 2 0. 1 0. 1 (2)	2, 246, 000 2, 234, 000 2, 228, 000 2, 166, 000 2, 069, 000	0. 1 0. 1 0. 1 0. 1 0. 1	766,000 1,108,000 1,602,000 1,643,000 348,000	(2) 0. 1 0. 1 0. 1 0. 1	17. 5 -4. 7 39. 0 -3. 4 -37. 0	50. 1 52. 5 46. 5 476. 3 85. 3	-16. 2 -10. 4 29. 7 -14. 0 -16. 3	66. 8 59. 2 42. 8 532. 4 36. 8
askets, and rattan and willow ware. lags, banners, regalia, society badges, and emblems oys and games. ork, cutting. iquors, vinous.	169 64 67 32 41	1,237 813 1,197 835 271	0. 1 0. 1 0. 1 0. 1 (2)	1,947,000 1,864,000 1,849,000 1,817,000 1,817,000	0. 1 0. 1 0. 1 (2) (2)	1,127,000 972,000 1,002,000 647,000 1,036,000	0. 1 0. 1 0. 1 (2) 0. 1	-0.1 93.4 12.5 171.2 -19.2	94. 5 4. 7 90. 1 43. 5 138. 5	-13. 2 100. 8 19. 9 102. 2	121. 5 8. 3 60. 2 81. 8
ewelry and instrument cases andles urgical appliances and artificial limbs rtificial stone urs, dressed	67 9 72 176 52	1,172 347 464 711 755	0. 1 (2) (2) 0. 1 0. 1	1,781,000 1,670,000 1,490,000 1,357,000 1,240,000	(2) (2) (2) (2) (2)	1,103,000 571,000 983,000 834,000 968,000	0. 1 (2) 0. 1 0. 1 0. 1 0. 1	24. 4 25. 4 23. 1 45. 9 -11. 4	89. 4 40. 2	-21. 6 25. 5 43. 1 10. 2 28. 7	136. 1 80. 9 32. 7
cales and balances leveles, motorcycles, and parts lectroplating loth, sponging and refinishing	16 20 130 25 2, 262	453 558 652 604 40,369	0. 1 0. 1 0. 1 4. 0	1,180,000 1,165,000 1,116,000 1,030,000 314,400,000	(2) (2) (2) (2) (2) 9.3	760,000 643,000 874,000 970,000 78,300,000	(2) (2) (2) 0. 1 0. 1 5. 2	36. 6 53. 5 -5. 8 37. 5	19. 8 -80. 2 3. 0 95. 1	-4. 8 26. 7 56. 1 6. 5 34. 2	91.9 19.0 -79.3 9.9 93.8

Percentages are based on figures in Table I; a minus sign (-) denotes decrease. Where the percentages are omitted, comparable figures can not be given.

Less than one-tenth of I per cent.

Some of the most important of the industries listed in the above table, together with certain groups of industries formed by combining two or more of those shown in the tables, are given special consideration, as follows.

Clothing.—The women's clothing and men's clothing industries combined gave employment in 1909 to an average of 189,467 wage earners, and the total output was valued at \$538,593,000, being 18.9 per cent and 16 per cent of the respective totals for all manufac-

turing industries in the state, whereas in 1904, with 138,952 wage earners and \$360,957,000 as the value of products, the corresponding proportions were 16.2 per cent and 14.5 per cent, respectively. The increase in the value of clothing manufactured in New York from 1904 to 1909 was \$177,636,000, or 49.2 per cent, and that from 1899 to 1904 was \$105,221,000, or 41.1 per cent, percentages which were greater than those for all manufacturing industries in the state combined. The manufacture of clothing under the factory system in New York began about 1835, but the early development of the industry was associated particularly with the invention of the sewing machine about 1846. In 1849 there were 976 establishments in the state manufacturing ready-made clothing, which gave employment to an average of 41,071 wage earners and turned out products valued at \$16,008,000. The introduction about 1870 of the cutting machine, by which many garments could be cut at one operation, had a stimulating effect upon this industry. At the census of 1889, when the first attempt was made to segregate the statistics for establishments manufacturing clothing under the factory system from establishments doing custom tailoring and dressmaking, there were 3,843 establishments in which ready-made clothing was manufactured, which employed an average of 96,822 wage earners and turned out products valued at \$159,452,000.

The value of products of the clothing industries in New York has not only increased remarkably during the last 20 years, but at each succeeding census it has formed a greater proportion of the aggregate value reported for the clothing industries in the United States, this proportion being 45.2 per cent in 1889 and 56.5 per cent in 1909. Measured by value of products. the women's clothing branch shows the greatest progress, surpassing the men's clothing branch in this respect for the first time in 1909. The total value of products for the former branch was \$45,087,000 in 1889, \$106,892,000 in 1899, and \$272,518,000 in 1909, an increase of \$61,805,000, or 137.1 per cent, from 1889 to 1899, and of \$165,626,000, or 154.9 per cent, from 1899 to 1909. The proportion which the value of women's clothing formed of the combined value of products reported for the two branches increased from 41.8 per cent in 1899 to 48.1 per cent in 1904, and to 50.6 per cent in 1909.

Printing and publishing.—This industry includes the printing and publishing of books, newspapers and periodicals, and music, job printing, bookbinding and blank-book making, plate printing, and lithographing. New York led all the states in the industry as a whole and in each of its branches, with combined products valued at \$216,946,000 in 1909, this amount representing 29.4 per cent of the total value of products for the industry in the United States. Printing and publishing was the first industry in the state both in number of establishments, with 4,426, or 9.8 per cent

of the total number shown for all manufacturing industries, and in value added by manufacture, with \$160,452,000, or 10.6 per cent of the state total. Although the proportions shown for wage earners (6.3 per cent) and value of products (6.4 per cent) were not so great, decided increases occurred in both of these items during each five-year period, the gains during the more recent period, 1904–1909, being 9,684, or 18.1 per cent, and \$52,112,000, or 31.6 per cent, respectively.

Textiles.—The textile industries of New York comprising the manufacture of hosiery and knit goods; silk and silk goods; carpets and rugs, other than rag; woolen, worsted, and felt goods, and wool hats; cotton goods, including cotton small wares; cordage and twine and jute and linen goods; and fur-felt hats-considered as a unit, rank high among the manufacturing industries of the state when measured by value of products. Combined, the seven allied branches gave employment in 1909 to an average of 91,839 wage earners and manufactured products to the value of \$185,780,000, these figures representing increases over 1904 of 11,233, or 13.9 per cent, in the number of wage earners and of \$43,358,000, or 30.4 per cent, in value of products. In 1909 the textile industries employed 9.1 per cent of the total number of wage earners engaged in the manufacturing industries of the state, and contributed 5.5 per cent of the total value of manufactured products. The corresponding proportions for 1904 were 9.4 per cent and 5.7 per cent, respectively. New York was the third state in the Union in the production of all textiles combined, of silk and silk goods, and of fur-felt hats, first in the manufacture of hosiery and knit goods and of carpets and rugs, other than rag, and second in that of cordage and twine and jute and linen goods. It ranked fifth in the production of woolen, worsted, and felt goods, and wool hats, and eleventh in that of cotton goods, including cotton small wares.

Foundry and machine-shop products.—All foundries and machine shops except those which manufacture a distinctive product covered by some other designation, such as agricultural implements, cash registers and calculating machines, sewing machines and attachments, or electrical machinery, are included in this classification. Establishments engaged in the manufacture of bells, gas machines and gas and water meters, hardware, cast-iron and cast-steel pipe, plumbers' supplies, steam fittings and heating apparatus, and structural ironwork, the majority of which were reported under separate classifications at previous censuses, are included in this industry. A number of the most important establishments are engaged in the manufacture of typesetting machines, steam-heating apparatus, electric elevators, locomotive, tender, and car brakes, metal-working machinery, pumps and pumping machinery, and structural ironwork. Although the industry was practically at a standstill from 1899 to 1904, the value of products increased from \$127,915,000 in 1904 to \$154,370,000 in 1909, or 20.7 per cent. New York was the second state of the Union in this industry at all three censuses.

Slaughtering and meat packing.—This classification includes establishments doing wholesale slaughtering and meat packing, and those engaged in the manufacture of sausage only. It does not include the numerous retail butcher shops, which slaughter a large number of animals. The value of products for this industry in New York increased from \$58,403,000 in 1899 to \$75,550,000 in 1904 and \$127,130,000 in 1909, when the total was \$68,727,000, or 117.7 per cent, greater than in 1899. The percentage of increase during the five-year period 1904-1909 in value of products was more than twice, and in value added by manufacture more than four times as great, as during the preceding five-year period, 1899-1904. Of the 238 establishments reported for the industry as a whole in 1909, 76 were engaged in wholesale slaughtering only, 74 in both wholesale slaughtering and wholesale meat packing, and 88 in the manufacture of sausage only, the value of the output of these three branches representing 51.2 per cent, 47.2 per cent, and 1.6 per cent, respectively, of the total for the combined industry. For the last three censuses, New York has ranked third among the states in this industry.

Liquors.—The manufacture of malt, distilled, and vinous liquors forms a very important group of industries in New York. The value of the combined output for 1909 can not be given, however, because the statistics for the distilled-liquor industry can not be presented separately without disclosing the operations of individual establishments. The manufacture of malt liquors was by far the most important of the three industries comprising this group. The total output of this industry in 1909 was valued at \$77,720,000, an increase over 1904 of \$15,762,000, or 25.4 per cent, which was considerably more than double the gain for the preceding five-year period. The figures for both value of products and value added by manufacture in the case of the brewery industry include \$12,666,000 paid to the Federal Government as internal-revenue tax, and are therefore to that extent misleading as an indication of the relative importance of this industry from a purely manufacturing standpoint. The distilled-liquor industry shows a substantial increase from 1904 to 1909 in all items covered in the preceding table except number of establishments, which decreased from 18 to 13. The value of products for the vinous-liquor industry, the least important of the liquor group, was \$1,817,000 in 1909, representing a decrease of \$432,000, or 19.2 per cent, as compared with 1904. At the census of 1909 New York ranked first among the states of the Union in the manufacture of malt liquors, sixth in that of distilled liquors, and second in that of vinous liquors.

Tobacco manufactures.—While this designation covers in general the manufacture of cigars, cigarettes, chewing and smoking tobacco, and snuff, the industry in New York was confined largely to the manufacture of

cigars and cigarettes, 3,284 of the 3,371 establishments reported in 1909 being engaged in this branch, the value of the output of such establishments representing 98 per cent of the total for the industry. The total value of tobacco manufactures for New York in 1909 was \$76,662,000, an increase over 1904 of \$11,065,000, or 16.9 per cent, whereas from 1899 to 1904 the gain was \$11,936,000, or 22.2 per cent. New York leads all other states of the Union in this industry.

Lumber and timber products.—This classification includes logging operations, sawmills, planing mills, and establishments engaged in the manufacture of wooden packing boxes. It does not include those mills, however, which are engaged exclusively in custom sawing for local consumption, the statistics for which are shown separately on page 737. This industry in the state in 1909 was represented by 674 independent planing mills, 1,389 sawmills and logging plants, and 200 packing-box factories, which reported 65.9 per cent, 20.7 per cent, and 13.4 per cent, respectively, of the total value of products for the industry. The corresponding percentages for 1899 were 56.4, 28.7, and 14.9, respectively. The value of the output of the sawmills and logging plants of the state was \$15,131,000 in 1899, \$13,310,000 in 1904, and \$15,036,000 in 1909. The industry as a whole shows an increase in value of products from \$52,738,000 in 1899 to \$61,677,000 in 1904 and to \$72,530,000 in 1909, an increase for the decade of \$19,792,000, or 37.5 per cent, and for the more recent five-year period, of \$10,853,000, or 17.6 per cent. It is apparent, therefore, that the growth of the entire industry was due very largely to the increase in the production of the planing mills. Measured by value of products, New York ranked second in 1909 among the states of the Union in the lumber industry.

Flour-mill and gristmill products.—The statistics for all merchant mills grinding wheat, rye, buckwheat, corn, or other grains are included in this classification. It does not, however, include factories making fancy cereals or other food preparations as a chief product, or mills doing custom grinding exclusively, the statistics for the latter mills being presented separately on page 737. This is one of the oldest industries in the state, probably dating from the latter part of the seventeenth century. It is said that the first gristmill in America was a horsepower mill located on the island of Manhattan. The industry developed gradually, but was especially prosperous during the years immediately following the opening of the Erie Canal in 1825, which greatly extended the sources of grain supply for the state. New York led all other states of the Union in the milling industry until 1889, since when it has held second place, having been displaced by Minnesota. The total value of flour-mill and gristmill products reported for New York was \$35,930,000 in 1899 and \$69,802,000 in 1909, representing 7.2 per cent and 7.9 per cent, respectively, of the total value of such products reported for the United States for these two census years.

Iron and steel, steel works and rolling mills and blast furnaces.—Combined, these two allied industries gave employment in 1909 to an average of 12,389 wage earners, and the value of their products amounted to \$66,153,000. These figures represent increases over 1899 of 6,971, or 128.7 per cent, in number of wage earners, and \$52,295,000, or 377.4 per cent, in value of products. The classification "Steel works and rolling mills" includes establishments engaged in the manufacture of steel or the hot rolling of iron and steel. It also includes the making of forgings and castings and the manufacture of rolled iron and steel into more highly finished forms when conducted as a part of the rolling-mill operations, as well as the few extant forges and bloomeries. It does not, however, include the making of cold-rolled products, nor of forgings, castings, and manufactures of iron and steel by establishments not equipped with steel-making furnaces or hot trains of rolls. The output of the steel works and rolling mills in 1909 was valued at \$39,532,000, representing an increase over 1904 of \$18,305,000, or 86.2 per cent. This gain, although pronounced, was not so great relatively as the increase of \$12,415,000, or 140.9 per cent, shown for the preceding five-year period. The blast furnaces include the establishments engaged in the manufacture of pig iron from the ore. In 1909 the products of the blast furnaces were valued at \$26,621,000, showing the remarkable gain over 1904 of \$17,986,000, or 208.3 per cent. Measured by value of products, New York ranked fourth in the manufacture of iron and steel and in each of the two branches in 1909.

Millinery and lace goods.—This industry includes all establishments engaged primarily in the manufacture of muslin and lace curtains; dress, cloak, and millinery trimmings; embroideries and crocheted goods; hat and bonnet frames; ladies' belts, collars, neckwear, and handkerchiefs; hats, trimmed and untrimmed; laces; pleating and puffs; ruching and ruffing; and veilings. In 1909 the value of products was \$52,-106,000, as compared with \$32,844,000 in 1904, a gain of \$19,262,000, or 58.6 per cent, for the five-year period. The relative gain in this respect from 1899 to 1904 was slightly less, but the actual increase was only a little over one-half as great. New York led all other states of the Union in this industry, and of the aggregate value of millinery and lace goods produced in the United States, New York contributed 60.7 per cent in 1909, 64.7 per cent in 1904, and 71.4 per cent in 1899.

Electrical machinery, apparatus, and supplies.—The exceptionally rapid extension during recent years of the use of electricity has created a demand for electrical appliances. The industry in New York, therefore, shows decided development during the past decade, the value of products increasing from \$22,695,000 in 1899 to \$49,290,000 in 1909. Although New York retained the lead among the states in this industry,

the proportion which it contributed of the total value of products for the industry in the United States, which increased from 24.6 per cent in 1899 to 25.1 per cent in 1904, decreased to 22.3 per cent in 1909.

Paper and wood pulp.—Mills which manufacture paper exclusively, pulp exclusively, or both paper and pulp are included in this classification. The mills engaged in the production of paper predominated largely in New York in 1909. In 1849 there were 106 establishments reported for the state, which employed an average of 1,267 wage earners and manufactured products valued at \$1,638,579. The growth of the industry since that time has been rapid, but during the decade 1899-1909 it was particularly noteworthy, the value of products increasing from \$26,716,000 in 1899 to \$48,860,000 in 1909, a gain of \$22,144,000, or 82.9 per cent. Although the actual gain in this respect for the 10 years was about equally divided between the two five-year periods, the percentage of increase from 1904 to 1909 (29.4) was considerably less than that from 1899 to 1904 (41.3). New York led all other states in this industry at the last three censuses, the value of the output for the state forming 18.3 per cent of the total for the United States in 1909, 20 per cent in 1904, and 21 per cent in 1899.

Boots and shoes, including cut stock and findings.— Of the 296 establishments in the state included in this classification in 1909, 21 were engaged primarily in the manufacture of boot and shoe cut stock, 56 in the production of boot and shoe findings, and 219 in the manufacture of boots and shoes. There is some overlapping of these three branches which makes it desirable to combine them in presenting the statistics. With products valued at \$28,117,000 in 1899 and \$37,521,000 in 1904, New York held second place at both censuses among the states of the Union, but in 1909, when products valued at \$48,186,000 were reported, it had dropped to third place. The proportions which New York contributed of the total value of products for the industry in the United States in the respective years were, however, comparatively small, owing to the fact that the state first in rank manufactured so large a percentage of the products as to dwarf, in a measure, all others. These proportions were 9.4 per cent in 1909, 10.5 per cent in 1904, and 9.7 per cent in 1899.

Butter, cheese, and condensed milk.—Of the 1,552 establishments included in this industry in 1909, 426 were engaged primarily in the manufacture of butter, 1,090 in the manufacture of cheese, and 36 in the manufacture of condensed milk, the value of the output of these three branches representing 41 per cent, 35.6 per cent, and 23.4 per cent, respectively, of the total for the entire industry. Of the 1,766 establishments reported for 1904, 543 manufactured butter as a chief product, 1,198 cheese, and 25 condensed milk, and the proportions which each class of establishments contributed of the total value of products

reported for the entire industry were 41.1 per cent, 36.7 per cent, and 22.1 per cent, respectively. The number of establishments in the butter and cheese branches of the industry decreased during the fiveyear period 1904-1909, but the value of products for each of the three branches increased, the condensed-milk branch making the greatest relative gain. The value of products for the industry as a whole in New York increased from \$26,558,000 in 1899 to \$42,458,000 in 1909, a gain of 59.9 per cent. As measured by value of products, New York was the leading state of the Union in this industry in 1899 and in 1904, but dropped to second place in 1909, having been displaced by Wisconsin. The proportion which New York contributed of the total value of products for the industry in the United States decreased during the decade, being 20.3 per cent in 1899, 18.5 per cent in 1904, and 15.5 per cent in 1909.

Gas, illuminating and heating.—This industry includes all establishments engaged in the manufacture of gas for illuminating or heating purposes from coal, coke, oil, benzine, gasoline, or calcium carbide, or from a combination of two or more of these materials. The industry in New York dates from about 1823, when lighting by gas was introduced into New York City. The industry as a whole did not, however, receive its first real impetus until 1873, when the Lowe process for the manufacture of water gas was introduced. The total value of gas manufactured for sale in New York was \$8,513,000 in 1869, \$18,717,000 in 1889, and \$42,347,000 in 1909. Of the total quantity of all classes of gas manufactured in the state in 1909, namely, 45,768,354,000 cubic feet, 75.9 per cent was carbureted water gas, 10.1 per cent mixed coal and water gas, and 13.7 per cent coal gas. New York held first rank in the manufacture of illuminating and heating gas at the last three censuses, reporting 25.4 per cent of the total value of products for the industry in the United States in 1909, 28.2 per cent in 1904, and 27.6 per cent in 1899.

Furnishing goods, men's.—The 375 establishments reported for this industry in the state in 1909 included, in addition to 241 engaged primarily in the manufacture of a general line of men's furnishings, such as neckwear, belts, and handkerchiefs, 100 which manufactured suspenders, garters, and elastic woven goods as their leading products and 34 which made collars and cuffs. Of the value of products reported for the entire industry in 1909, \$15,897,000 represented the value of collars and cuffs, constituting 92.3 per cent of the total value of collars and cuffs manufactured in the United States. The value of products for the industry as a whole increased from \$29,337,000 in 1904 to \$42,197,000 in 1909, the proportions which these figures represented of the corresponding totals for the industry in the United States being 59.8 per cent and 48.1 per cent, respectively. New York not only outranked all other states in the industry as a

unit, but also in each of the three branches except the manufacture of suspenders, garters, and elastic woven goods, in which it ranked second.

Furniture and refrigerators.—This industry embraces the manufacture of wood and metal furniture of all kinds, refrigerators and ice boxes, and store and office fixtures, with the exception of products such as show cases, which are provided for by a distinct classification. This industry ranks eleventh among those shown separately in the preceding table in average number of wage earners, thirteenth in value added by manufacture, and nineteenth in value of products. The value of the output of the furniture and refrigerator factories of New York increased from \$24,658,000 in 1899 to \$29,326,000 in 1904 and \$41,929,000 in 1909, which figures represented 18.9 per cent, 16.5 per cent, and 17.5 per cent of the respective totals for the United States. For several decades New York has led all other states in this industry.

Fur goods.—Those establishments engaged primarily, in the manufacture of garments in which fur is the chief material, such as coats, cloaks, capes, muffs, scarfs, and robes, and gloves, mittens, and trimmings, are included in this classification. It does not include establishments engaged mainly in tanning and dyeing skins with the fur on. The value of products increased from \$15,829,000 in 1899 to \$26,244,000 in 1904 and \$41,301,000 in 1909. New York outranked all other states at each of the three censuses in the manufacture of fur goods, the value of its output constituting 73.8 per cent of the total for the United States in 1909, 70.7 per cent in 1904, and 61.1 per cent in 1899.

Copper, tin, and sheet-iron products.—This classification comprises the manufacture of sheet-metal products of copper, tin, and sheet iron, including the preparation of copper, tin, and sheet-iron material for building construction. The 686 establishments reported for this industry in 1909 included 61 in which stamped and enameled ware was manufactured and 69 in which tinware was produced. The value of the stamped and enameled ware was \$13,140,000, and that of tinware was \$10,386,000, which amounts represent 34.2 per cent and 27 per cent, respectively, of the total value of products for the industry. New York ranked first among the states of the Union in the manufacture of copper, tin, and sheet-iron products at each of the three censuses, with \$38,452,000 as the total value of such products in 1909, \$27,314,000 in 1904, and \$19,287,000 in 1899.

Patent medicines and compounds and druggists' preparations.—Under this head are included the manufacture of so-called patent medicines, and of some compounds that are not used for medicinal purposes, and also the manufacture of capsules, extracts, tinctures, and other pharmaceuticals, and of perfumery and cosmetics. Of the 743 establishments reported in 1909, 509 were engaged primarily in the manufacture of patent medicines and compounds, the value of

which represented 56.6 per cent of the total for the industry. New York led all other states of the Union in the industry as a whole at each of the last three censuses, the total output being valued at \$37,343,000 in 1909, \$28,646,000 in 1904, and \$26,538,000 in 1899.

Chemicals.—This industry includes the manufacture of acids (except sulphuric, nitric, and mixed acids, for which there is a separate classification), sodas, potashes, alums, coal-tar products, cyanides, bleaching materials, plastics, compressed or liquefied gases, alkaloids, gold, silver, and platinum salts, chloroform, ether, glycerin, Epsom salts, copperas, blue vitriol, and other bases and salts, when they are made as a chief product by the establishment reporting. It does not include, however, the manufacture of chemicals as byproducts in establishments classified in the census reports under a different head. In the production of chemicals New York held first rank among the states at each of the last three censuses, the value of its output constituting 30 per cent of the total for the United States in 1909, 30.6 per cent in 1904, and 25.5 per cent in 1899. The total value of products of the chemical industry in New York in 1909 was \$35,346,000, an increase over 1904 of \$12,324,000, or 53.5 per cent, and over 1899 of \$19,352,000, or 121 per cent.

Musical instruments, pianos and organs and materials.—Of the 184 establishments included in this classification in 1909, 117 were engaged primarily in the manufacture of pianos, 19 in the manufacture of organs, and 48 in the manufacture of piano and organ materials. The output of the piano establishments represented 79.1 per cent of the \$33,680,000 reported as the total value of products for the industry as a whole. At each of the last three censuses New York outranked all other states of the Union in the manufacture of pianos and organs and materials, contributing 37.5 per cent of the total value of the output for the United States in 1909, 35.4 per cent in 1904, and 35.9 per cent in 1899. The value of products for the industry in the state considerably more than doubled during the decade.

Automobiles, including bodies and parts.—The manufacture of automobiles in New York began only a few years before 1899, in which year there were 15 establishments in operation in the state, reporting products valued at \$456,000, and the state ranked fifth among the states in the industry. The development of the industry thereafter was remarkable, for by 1904 New York had become third in the manufacture of automobiles, which position it retained in 1909. In 1899 New York contributed 9.6 per cent of the total value of products for this industry in the country as a whole, and in 1904 the proportion had increased to 14.2 per cent, but in 1909 it had dropped to 12.4 per cent. The total value of products for 1909 was \$30,980,000, which was more than seven times the amount reported for 1904. This classification also includes the manufacture of automobile parts and accessories, but this branch of the industry has become so interwoven with such industries as the foundry and machine-shop industry and the manufacture of rubber goods, electrical machinery, apparatus, and supplies, and brass and bronze products that it is impossible to determine to what extent the statistics presented under this head cover the actual production of parts and accessories.

Manufactures from precious metals.—The manufacture of jewelry is allied closely with the production of silverware and plated ware, and the reduction and refining of gold and silver from clippings, sweepings, and scrap. In 1909 these three industries combined employed an average of 8,486 wage earners and turned out products valued at \$30,825,000.

Paint and varnish.—Of the 147 establishments included in this classification in 1909, 104 were engaged primarily in the manufacture of paint, with products valued at \$20,557,000, representing 72 per cent of the total for the industry as a whole. The value of paint and varnish manufactured in New York was \$25,121,000 in 1904 and \$28,559,000 in 1909, an increase of \$3,438,000, or 13.7 per cent, for the five-year period. In value of products New York led all other states in this industry at each of the last three censuses, reporting 22.9 per cent of the total for the United States in 1909, as compared with 27.7 per cent in 1904 and 27.1 per cent in 1899.

Leather, tanned, curried, and finished.—Establishments which were engaged primarily in the manufacture of leather, as well as those which treated hides and skins for others, are included in this classification. The cost of materials and the value of products, however, do not include the value of the hides or skins treated for others under contract. New York ranked third among the states in the manufacture of leather in 1899, with a value of products amounting to \$23,206,000. In 1904, however, the value of products had decreased to \$21,643,000 and the state fell to fourth place, while in 1909, though the value of the products increased to \$27,642,000, the state had dropped to fifth place.

In 14 of the less important industries shown separately in the table, New York led all other states of the Union in value of products in 1909 and contributed more than half of the value of products reported for each in the United States. These industries, together with the percentages of the value of products contributed by the state, were as follows: Lapidary work, 94.4; artificial flowers and feathers and plumes, 88.2; photographic apparatus and materials, 83.2; paper patterns, 83; hair work, 70.1; pens, fountain, stylographic, and gold, 67.9; cloth, sponging and refinishing, 66.7; gloves and mittens, leather, 60.7; pipes, tobacco, 60.5; hats and caps, other than felt, straw, and wool, 57.2; jewelry and instrument cases, 57.1; candles, 53.4; typewriters and supplies, 52.2; furs, dressed, 51.9.

It will be seen from the table on page 689 that some of the industries that hold a very high rank in the gross value of products rank comparatively low in the number of wage earners employed and in value added by

manufacture. Where this is the case, it indicates that the cost of materials represents a large proportion of the total value of products, and that therefore the value added by manufacture, of which wages constitute usually the largest item, is only a small proportion of the total value of products. Thus the slaughtering and meat-packing industry, which ranks fifth in gross value of products, and the flour-mill and gristmill industry, which ranks tenth in that respect, rank comparatively low with regard to number of wage earners and value added by manufacture. Other important industries which rank much higher in gross value of products than in the number of wage earners or the value added by manufacture are the butter, cheese, and condensed-milk industry; the tanning, currying, and finishing of leather; the blast furnaces; the roasting and grinding of coffee and spice; and the manufacture of linseed oil.

On the other hand, there are several industries the rank of which according to the number of wage earners or the value added by manufacture is considerably higher than the rank according to the value of products; in other words, the cost of materials is relatively a smaller part of the total value of products for these industries than for most others. Among the important industries of this class are the manufacture of furniture and refrigerators, the steam-railroad repair shops, and marble and stone work. Four of the textile industries—the manufacture of hosiery and knit goods, silk goods, carpets and rugs, and cotton goods—also rank much higher in number of wage earners, and somewhat higher in value added by manufacture, than in value of products.

The table on page 689 shows very great differences among the several industries with respect to the percentages of increase or decrease in the value of products and the value added by manufacture, although the great majority of the industries show an increase in both items for each of the five-year periods. The reduction and refining of gold and silver from sweepings, clippings, and scrap, however, shows a decrease in value of products for both five-year periods, while 13 other industries show decreases from 1904 to 1909 and 15 decreases from 1899 to 1904. None of the industries presented separately in the table show decreases in value added by manufacture for both five-year periods, but 16 show decreases from 1904 to 1909. and 14 show decreases from 1899 to 1904. Of the 58 industries for which products valued at more than \$10,000,000 were reported in 1909, two—the manufacture of carriages and wagons and of cordage and twine and jute and linen goods—show decreases in both value of products and value added by manufacture since 1904, while one other—the roasting and grinding of coffee and spice-shows a decrease in value of products.

The manufacture of emery and other abrasive wheels shows the highest percentage of increase in both value

of products and value added by manufacture between 1904 and 1909, the gross value of the products of this industry being nearly thirty-five times as great in 1909 as in 1904 and the value added by manufacture over twenty-seven times as great. Other industries which show exceptionally large increases during the same fiveyear period in both items are the hair-work and the automobile industries, the manufacture of artificial flowers and feathers and plumes, the blast furnaces, and the manufacture of corsets, in which the value of products in 1909 was from three to seven times that in 1904. The manufacture of lead bars, lead pipe, and sheet lead shows the largest relative decrease in value of products for this period, 37 per cent, and the manufacture of dentists' materials the largest in value added by manufacture, 42.1 per cent.

Of the 12 industries shown in the table for which products valued at more than \$50,000,000 were reported in 1909, five—the making of men's clothing, the foundries and machine shops, the brewery industry, slaughtering and meat packing, and the manufacture of hosiery and knit goods—show greater percentages of increase in both value of products and value added by manufacture for the five-year period 1904–1909 than for the period 1899–1904.

Persons engaged in manufacturing industries.—The following table shows, for 1909, the distribution of the number of persons engaged in manufactures, the average number of wage earners being distributed by sex and age. It should be borne in mind, however, that the sex and age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the Introduction.

CLASS.	• PERSONS ENGAGED IN MANUFACTURES.							
	Total.	Male.	Female.					
All classes	1, 203, 241	869, 434	333, 807					
Proprietors and officials	78,874	75,389	3,485					
Proprietors and firm members	47, 569 12, 916 18, 389	45, 429 12, 481 17, 479	2,140 435 910					
Clerks.	120,386	87,404	32,982					
Wage earners (average number)	1,003,981	706,641	297,340					
16 years of age and over	996, 162 7,819	702,637 4,004	293,525 3,815					

The average number of persons engaged in manufactures during 1909 was 1,203,241, of whom 1,003,981 were wage earners. Of the remainder, 78,874 were proprietors and officials and 120,386 were clerks. Corresponding figures for individual industries will be found in Table II, page 766.

The table on the following page shows, for 1909, the percentages of proprietors and officials, clerks, and wage earners, respectively, among the total number of persons employed in manufactures. It covers all industries combined and 58 important industries individually.

CITY OF SERVICE OF SER	PERSONS I	NO ACIDD T	N MANUE	A CTUDES
	PERSONS I	MGAGED I	MANUF.	acrumes.
		Per	cent of to	tal.
industry.	Total number.	Proprietors and officials.	Clerks.	Wage earners (average number).
All industries	9,813 11,610	6. 6 4. 9 5. 7 3. 6	10. 0 11. 7 7. 7 11. 5	83. 4 83. 4 86. 5 84. 9
Boxes, faucy and paper Brass and bronze products. Bread and other bakery products. Butter, cheese, and condensed milk. Canning and preserving. Carpets and rugs, other than rag. Carriages and wagons and materials.	23,815 12,702 7,596 29,039 4,930 8,818 12,272 7,333	3.3 5.1 6.1 15.6 35.6 13.3 0.7 12.1	5.8 4.0 6.4 10.8 6.3 6.5 2.4 4.5	90.8 90.8 87.6 73.5 58.1 80.2 97.0 83.4
repairs by steam-railroad companies. Chemicals. Clothing, men's, including shirts. Clothing, women's. Coffee and spice, roasting and grinding. Confectionery. Conner tin, and sheat-iron products.	18,003 6,869 104,567 114,925 2,394 10,116 17,153	3.0 3.6 5.1 5.2 8.0 4.8 6.8	5. 6 12. 8 7. 5 9. 5 28. 6 10. 5 7. 6	91. 4 83. 7 87. 4 85. 4 63. 4 84. 7 85. 6
Cordage and twine and jute and linen goods. Cotton goods, including cotton small wares.	6,230 11,032	1.1 1.4	3.3 2.0	95. 5 96. 7
Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products. Food preparations. Foundry and machine-shop products. Fur goods. Furnishing goods, men's. Furniture and refrigerators. Gas and electric fixtures and lamps and reflectors.	22,819	4.2 27.8 8.0 5.6 13.3 3.6 6.0	12.6 13.8 19.4 9.8 13.5 8.8 6.5	83. 1 58. 4 72. 6 84. 6 73. 2 87. 6 87. 4
Gas and electric fixtures and lamps and reflectors. Gas, illuminating and heating. Gloves and mittens, leather. Hats, fur-felt. Hosiery and knit goods. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills Jewelry. Leather goods. Leather goods. Leather, tanned, curried, and finished. Liquors, malt. Lumber and timber products. Malt. Marble and stone work. Millinery and lace goods. Musical instruments, pianos and organs and materials. Oii, linseed.	. 9,221 - 7,195 - 5,379 - 37,673 - 2,562 - 11,089 - 7,146 - 9,283 - 6,278	5.6 4.5 6.2 2.2 2.1 1.5 1.6 10.9 9.0 4.2 6.2 10.9 9.88 13.1	10. 7 25. 9 6. 4 4. 6 2. 5 8 8. 8 7. 4 13. 8 9. 3 5. 2 12. 2 4. 5 9. 0 10. 1	83.7 69.6 87.4 93.2 95.4 89.7 91.0 75.3 81.7 90.6 81.6 84.6 81.2 81.9 83.1
Paper and wood pulp Paper goods, not elsewhere specified	13,018	3.6 4.5 8.1 3.7 4.5	5.3 13.6 27.7 3.5 13.6	91.1 81.9 64.3 92.7 81.9
ratem medicines and compounds and druggists' proparations. Photographic apparatus and materials. Printing and publishing. Shipbuilding, including boat building. Silk and silk goods, including throwsters. Slaughtering and meat packing. Soap. Tobacco manufactures. Typewriters and supplies.	8,566 5,186 94,893 6,230 14,136 7,583 3,924 36,197 5,160	2.9 8.2 6.1 2.9 5.5 5.3 11.8	25.3 3.3 5.8 13.9 18.9 5.3	66. 5 90. 6 91. 3 80. 6 75. 8 82. 9 87. 9
Wire. Woolen, worsted, and felt goods, and woo hats. All other industries.	9,907 203,337	2. 2		

Of the total number of persons engaged in all manufacturing industries, 6.6 per cent were proprietors and officials, 10 per cent clerks, and 83.4 per cent wage earners. The highest percentage of proprietors and officials shown for any industry, 35.6, is for the manufacture of butter, cheese, and condensed milk. In this, as well as in the flour-mill and gristmill industry, the majority of the establishments are small and the work is to a large extent done by the proprietors or their immediate representatives, so that the proportion of persons engaged in these industries falling into the class of proprietors and officials is very much higher than in other individual industries or in all industries combined. Similar conditions

prevail to some extent in the bakery industry, in canning and preserving, in the manufacture of carriages and wagons, fur goods, and patent medicines and compounds and druggists' preparations, in marble and stone work, and in tobacco manufactures, where the proportions of proprietors and officials ranged from 15.6 per cent to 11.8 per cent of the total number of persons engaged in each industry. On account of the large average number of wage earners employed in the establishments manufacturing carpets and rugs, cordage and twine, and cotton goods, and in the blast furnaces, steel works and rolling mills, and wireworks, these industries show the smallest proportions of proprietors and officials of any given in the table. The largest proportion of wage earners, 97 per cent, was reported for the carpet and rug industry, while the smallest, 55.2 per cent, was for the manufacture of patent medicines and compounds and druggists' preparations. Among the industries presented separately in the above table, however, the patent-medicine industry shows the largest proportion of clerks.

The first table on the following page shows, for 1909, in percentages, for all industries combined, the distribution of the average number of wage earners by age periods, and for those 16 years of age and over by sex, calculated in the manner described in the Introduction. It also shows, for some of the important industries separately, a similar distribution of the wage earners reported for December 15, or the nearest representative day. As a means of judging the importance of the several industries the average number employed for the year is also given in each case.

For all industries combined, 70 per cent of the average number of wage earners in 1909 were males 16 years of age and over; 29.2 per cent, females 16 years of age and over; and eight-tenths of 1 per cent, children under the age of 16. The larger part of the total number of female wage earners 16 years of age and over was made up of those employed in the clothing, textile, millinery and lace goods, tobacco manufactures, and men's furnishing goods industries; the industry having the largest proportion of women, however, was the manufacture of artificial flowers and feathers and plumes, in which such wage earners formed 84.2 per cent of the total. In the manufacture of men's furnishing goods, and of millinery and lace goods, over threefourths of the wage earners were women 16 years of age and over; in the hosiery and knit goods, fancy and paper box, and silk and silk-goods industries, over three-fifths; and in seven other industries shown in the table the proportion was over one-half.

The textile, clothing, printing and publishing, boot and shoe, fancy and paper box, and millinery and lace-goods industries employed the larger part of the wage earners under 16 years of age. The proportion of such wage earners was largest (2.9 per cent) in the manufacture of fancy and paper boxes, while

in the cotton-goods industry they formed 2.8 per cent of the total number, and in the silk-goods industry 2.5 per cent. The proportion was also relatively high in the manufacture of artificial flowers and feathers and plumes, jewelry, boots and shoes, confectionery, and woolen goods, in each of which children under 16 years of age formed at least 2 per cent of the total number of wage earners.

		WAGE E.	ARNERS.	
		Per	cent of to	otal.
INDUSTRY.	Average number.1	16 year and	rs of age over.	Under 16 years
		Male.	Female.	of age.
All industries	8,493 9,86 <b>1</b>	70. 0 98. 7 13. 5 98. 7	29. 2 1. 1 84. 2 1. 2	0, 8 0, 2 2, 3 0, 1
findings.  Boxes, fancy and paper Brass and bronze products. Bread and other bakery products Butter, cheese, and condensed milk canning and preserving. Carpets and rugs, other than rag Carriages and wagons and materials Cars and general shop construction and re-	11,898 6,116	63. 6 34. 2 94. 4 86. 2 90. 7 43. 8 55. 0 98. 3	34.3 62.9 5.3 13.3 8.8 55.1 44.3 1.7	2. 0 2. 9 0. 3 0. 5 0. 5 1. 0 0. 6
Chemicals. Clothing, men's, including shirts. Clothing, women's. Coffee and spice, roasting and grinding. Confectionery. Copper, tin, and sheet-iron products. Cordage and twine and jute and linen goods. Cotton goods, including cotton small wares. Electrical machinery engagestics and see	16, 454 5, 746 91, 363 98, 104 1, 519 8, 570 14, 689 5, 952 10, 663	99. 9 96. 9 58. 5 42. 3 69. 3 40. 0 87. 5 46. 4 55. 3	0.1 2.9 41.1 57.3 30.6 58.0 11.9 52.8 42.0	0. 2 0. 4 0. 5 0. 1 2. 0 0. 6 0. 8 2. 8
plies. Flour-mill and gristmill products. Food preparations. Foundry and machine-shop products. Fur goods. Furnishing goods, men's. Furniture and refrigerators. Gas and electric fixtures and lamps and reflectors.	18,972 2,990 3,023 64,066 8,244 18,186 20,281	86. 0 95. 6 61. 5 98. 0 67. 3 22. 4 96. 9	13.8 4.2 37.3 1.8 32.5 77.2 2.6	0. 2 0. 2 1. 2 0. 2 0. 3 0. 5 0. 6
flectors.  Gas, illuminating and heating.  Gas, illuminating and heating.  Gloves and mittens, leather.  Hats, fur-felt.  Hosiery and knit goods.  Iron and steel, blast furnaces.  Iron and steel, blast furnaces.  Iron and steel, blast furnaces.  Iron and steel, steel works and rolling mills.  Jewelry.  Leather goods.  Leather goods.  Leather, tanned, curried, and finished.  Liquors, malt.  Lumber and timber products.  Malt.  Marble and stone work.  Millinery and lace goods.  Musical instruments, pianos and organs and materials.  Oil, linseed.  Paint and varnish.  Paper goods, not elsewhere specified.  Patent medicines and compounds and drug-  ratery reconstructions.	6, 017 6, 422 6, 287 5, 013 35, 950 2, 298 10, 091 5, 379 7, 586 5, 688 8, 731 27, 471 6, 939 21, 078 11, 938 3, 047 12, 073 4, 303	93. 2 99. 7 49. 2 66. 4 34. 6 99. 0 84. 8 81. 2 97. 3 99. 1 100. 0 98. 6 100. 0 98. 6	6.5 0.2 49.1 32.8 63.6 0.1 0.9 13.1 17.8 2.3 0.7 1.0 77.1 4.3	0.3 0.1 1.6 0.8 1.8 2.2 1.0 0.4 0.3
Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing. Shipbuilding, including boat building. Slik and silk goods, including throwsters. Slaughtering and meat packing. Soap. Tobacco manufactures Typewriters and supplies. Wire. Woolen, worsted, and felt goods, and wool hats All other industries.	4, 728 4, 088 63, 120 5, 644 12, 903 6, 110 2, 976 30, 019 4, 538 1, 439	45. 0 46. 1 72. 7 76. 9 99. 8 35: 1 97. 2 77. 8 48. 5 85. 9 90. 8	53. 1 53. 2 26. 5 22. 2 0. 1 62. 4 2. 7 22. 1 50. 6 13. 9 8. 8	1.9 0.7 0.9 1.0 0.1 2.5 0.1 0.9 0.2
hatsAll other industries	9, 460 169, 534	55. 6	42.4	2.0

<sup>&</sup>lt;sup>1</sup> For method of estimating the distribution, by sex and age periods, of the average number in all industries combined, see Introduction.

<sup>2</sup> Less than one-tenth of 1 per cent.

In order to compare the distribution of persons engaged in manufactures in 1909 with that shown at the census of 190, 4it is necessary to use the classification employed at the earlier census. (See Intro-

duction.) The following table makes this comparison according to occupational status:

	PERSONS ENGAGED IN MANUFACTURES.									
CLASS.	190	9	190	Per						
	Number.	Percent distri- bution.	Number.	Percent distri- bution.	cent of in- crease, 1904- 1909.					
Total	1,203,241 47,569 151,691 1,003,981	100. 0 4. 0 12. 6 83. 4	996, 725 41, 766 98, 012 856, 947	100. 0 4. 2 9. 8 86. 0	20. 7 13. 9 54. 8 17. 2					

Comparable figures are not obtainable for 1899. Salaried employees show the greatest percentage of increase and the only gain in relative numerical importance.

The following table shows the average number of wage earners distributed according to age periods, and in the case of those 16 years of age and over according to sex, for 1909, 1904, and 1899. The averages for 1909 are estimated on the basis of the actual number reported for a single representative day. (See Introduction.)

	AVERAGE NUMBER OF WAGE EARNERS.										
CLASS.	190	9	190	)4	1899						
	Number.	Percent distri- bution.	Number.	Percent distri- bution.	Number.	Percent distri- bution.					
Total 16 years of age and over. Male Female Under 16 years of age	1,003,981 996,162 702,637 293,525 7,819	100. 0 99. 2 70. 0 29. 2 0. 8	856, 947 848, 968 603, 519 245, 449 7, 979	100. 0 99. 1 70. 4 28. 6 0. 9	726, 909 714, 508 503, 674 210, 834 12, 401	100. 0 98. 3 69. 3 29. 0 1. 7					

This table indicates that for all industries combined there has been both an absolute and a relative decrease during the 10 years in the employment of children under 16 years of age. Although the number of each class of wage earners 16 years of age and over shows a decided increase during the same period, the proportions of such employees remained practically the same. In 1909 males 16 years of age and over formed 70 per cent of all wage earners in the manufacturing industries, as compared with 70.4 per cent in 1904 and 69.3 per cent in 1899.

Wage earners employed, by months.—The first table on the following page gives the number of wage earners employed on the 15th of each month during the year 1909 for all industries combined. It gives also the percentage which the number reported for each month is of the greatest number reported for any month. In Table II, page 766, are shown, for practically all of the important industries in the state, the largest number and also the smallest number of wage earners reported for any month. The figures are for the 15th day, or the nearest representative day, of the month.

	WAGE EA	RNERS.		WAGE EARNERS.			
MONTH.	Number.	Per cent of maxi- mum.	MONTH.	Number.	Per cent of maxi- mum.		
JanuaryFebruaryMarchAprilMayJune	971,236 991,633 989,498 983,987	88. 9 91. 4 93. 3 93. 1 92. 6 92. 2	July	998, 896 1, 041, 333 1, 063, 162	91.9 94.0 97.9 100.0 99.7 98.3		

There were no seasonal industries of importance in New York, nor did any of the more important industries show very great fluctuations from month to month in the number of wage earners employed. Among the seasonal industries the greatest relative variations took place in canning and preserving and in the manufacture of brick and tile, but the numbers of wage earners employed in these industries were not large enough to affect very greatly the totals for the entire state. There was a larger absolute variation in the number of wage earners engaged in the women's

clothing industry than in either of the seasonal industries mentioned, but these fluctuations were due mainly to trade conditions which affected to a less extent many other industries, and through them the totals for the state as a whole. In all manufacturing industries combined, the smallest number of wage earners, 945,356, were employed in the month of January, and the largest number, 1,063,162, in the month of October, the difference between these figures being 117,806, or 11.1 per cent of the maximum.

Prevailing hours of labor.—In the following table wage earners have been classified according to the hours of labor prevailing in the establishments in which they are employed. In making this classification the average number of wage earners employed during the year is used, and the number employed in each establishment is classified as a total according to the hours prevailing in that establishment, even though a few employees work a greater or less number of hours.

	AVERAGE	NUMBER	OF WAGE PREVAL	EARNERS LING HOU	IN ESTAB	LISHMENT K PER W	S GROUPE EEK.	D ACCORI	ING TO
INDUSTRY.	Total.	48 and under.	Between 48 and 54.	54.	Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
All industries.	1, 003, 981	102, 279	173, 887	169, 492	290, 905	225, 930	21,397	10,544	9,547
Agricultural implements Artificial flowers and feathers and plumes. Artificial stone. Automobiles, including bodies and parts. Babbitt metal and solder.	711 9,861 192	20 1,914 186 86 18	4,658 88 1,525 13	132 1,480 189 4,068	3,549 297 32 2,248 94	2,016 144 215 1,932 64		1	
Bags, other than paper. Bags, paper Bagkets, and rattan and willow ware Belting and hose, leather Bicycles, motorcycles, and parts	1,000 1,032 1,237 604 558	56 97 1	171 26 69 247 4	2 34 64 208 3	678 493 250 31 39	147 479 747 21 509	18	25	8
Blacking and cleansing and polishing preparations Boots and shoes, including cut stock and findings Boxes, cigar Boxes, fancy and paper Brass and bronze products	21 627	65 77 65 354 230	63 1,110 21 2,695 487	172 4,851 205 2,021 2,049	114 10,057 708 3,959 1,701	235 5,441 532 2,342 2,184			167
Bread and other bakery products.  Brick and tile.  Brooms and brushes  Butter, cheese, and condensed milk.	21,357	1,133 1,467 147 169	694 121 375 63	2,886 1,449 471 98	1,980 258 1,275 398	13,345 4,667 627 608	1,436	176 57 2 2	89 12 92
Buttons Candles Canning and preserving. Carpets and rugs, other than rag	6,126	381	583 279 124	370 63 191 6,463	4, 453 37 735 742	5, 269 4, 569		56	8
Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad companies. Cars and general shop construction and repairs by street-railroad companies. Cars, steam-railroad, not including operations of railroad companies.	6,116	224 374	1,137	1,329 2,188 84 956	3,946 1,400	1,918 2,488 2,362 1,431	5,124 608		26
Cement Chemicals. Chocolate and cocoa products. Clocks and watches, including cases and materials. Cloth, sponging and refinishing.	1,443 5,746	38 14 32	142 45	376	3,599 47 1,950	498 1,324 565 82	37		
Clothing, men's, including shirts. Clothing, women's. Coffee and spice, roasting and grinding. Coffins, burial cases, and undertakers' goods. Confectionery.	91,363 98,104 1,519 1,235 8,570	9,044 3,898 128 10 152	48,982 170 217	20, 101 132 90	18,697 937 411	9,002 5,475 151 507 2,819	829	82	40
Cooperage and wooden goods, not elsewhere specified Copper, tin, and sheet-iron products Cordage and twine and jute and linen goods Cordials and sirups. Cork, cutting	1 2 611	2,918	625	1,440	6,530 3,269 1 666	3,176 2,680 161	9		
Corsets. Cotton goods, including cotton small wares. Cutlery and tools, not elsewhere specified Dairymen's, poulterers', and apiarists' supplies Dentists' materials	2,436	13. 136	i 247	7 17 378 480	7 1,277 8 1,192 0 80 7 56	9,12 2,22 10	7		
Dyeing and finishing textiles.  Dyestuffs and extracts Electrical machinery, apparatus, and supplies Electroplating Emery and other abrasive wheels	5, 252 418 18, 972 652 719	39 16 3	$\begin{array}{c c} 9 & & & \\ 4 & 2,76 \end{array}$	9 2,17	2 34 0 13,048	33 82 10	7		

INDUSTRY.	AVERAG	E NUMBER	OF WAG	E EARNE	RS IN EST.	ABLISHME ORK PER	NTS GROUP WEEK.	ED ACCO	RDING TO
MUUSIEI.	Total.	48 and under.			Between 54 and 60.	60.	Between 60 and 72.	72.	Over 72.
Fancy articles, not elsewhere specified Fertilizers. Firearms and ammunition. Flags, banners, regalla, society badges, and emblems. Flour-mill and gristmill products	3,430 908 1,781 813 2,990	11	773 2 87 12	527	1,796 1 1,308 80 57	336 578 469 10	258	60	
Food preparations. Foundry and machine-shop products. Fur goods. Furnishing goods, men's. Furniture and refrigerators.	3,023 64,066	2,001 518 866	151 7,087 4,213 3,658 1,460	328 23,062 2,870 2,070	736 15,091 544 11,307 6,441	1,839 1,356 16,665 95 283 9,272	335 160 4	335	10
Furs, dressed Gas and electric fixtures and lamps and reflectors Gas, illuminating and heating. Glass. Glass. Glass, cutting, staining, and ornamenting.	755 6,017 6,422 3,114 3,118	87 22 369	73 1,453 776 907	98 1,702 2	311 1,906 100 328 1,358	245 864 400 1,361 133	5 888	1,661	3,349
Gloves and mittens, leather Gold and silver, reducing and refining, not from the ore Hair work Hat and cap materials Hats and caps, other than felt, straw, and wool.	6,287 42 2,313 965 3,348	115 10 152 50 55	241 27 861 151 1,473	1 '	5,490 70 747 825	248 62 3 291	25	· · · · · · · · · · · · · · · · · · ·	••••••
Hats, fur-felt Hats, straw Hosiery and knit goods House-furnishing goods, not elsewhere specified Ice, manufactured	5,013 2,508 35,950 1,812 1,124	672 236 427 121 91	1,060 1,126 1,312 959	36 258 454 397 76	3,236 384 7,945 63 65	9 504 24,934 253 107	878 19 225	26	534
Ink, printing Instruments, professional and scientific Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills Jewelry	525 1,964 2,298 10,091 5,379	110 65 282	31 350 67 2,943	64 467 423 1,376	264 1,072 1,695 728	56 10 101 4,745 50	374	335 3,161	1,488
Jewelry and instrument cases. Lapidary work. Lead, bar, pipe, and sheet. Leather goods. Leather, tanned, curried, and finished	1,172 499 185 7,586 5,688	86 274 179 18	346 138 788 226	162 83 38 1,019 211	200 4 54 4,245 2,470	378 93 1,324 2,763	9	1	21
Liquors, malt Liquors, vinous Looking-glass and picture frames Lumber and timber products Malt	8,731 271 1,491 27,471 524	1,528 2 74 1,878 16	292 45 282 1,336	5,176 195 3,822 22	314 456 5,949 27	758 222 484 14,105	381		
Marble and stone work. Mattresses and spring beds. Millinery and lace goods. Mirrors. Models and patterns, not including paper patterns.	6,939 1,621 21,078 983 1,082	4,377 65 1,471 53 62	256 167 10,562 587 458	599 252 4,786 201 180	684 692 3,970 72 320	1,004 421 289 70 62	19 22	2	
Musical instruments, pianos and organs and materials Oil, linseed Oileloth and linoleum Optical goods Paint and varnish	11,938 566 1,102 2,047 3,047	364 25 121	1,481 101 951	6,967 7 20 1,490 512	310 420 844	2,477 275 772 11	35		••••••
Paper and wood pulp. Paper goods, not elsewhere specified Paper patterns. Patent medicines and compounds and druggists' preparations Pens, fountain, stylographic, and gold	12,073 4,303 761 4,728 730	1,295 332 666 1,533 41	1,979 1,695 89 1,762 104	279 608 6 491 429	502 1,372 692 156	2,656 296	2,563	2,500	299
Photographic apparatus and materials. Photo-engraving. Pipes, tobacco. Pottery, terra-cotta, and fire-clay products. Printing and publishing.	4,088 1,395 1,663 2,367 63,120	59 432 39 234 34,754	98 895 1,344 423 15,083	3,753 135 570 8,512	178 65 113 617 4,081	3 32 451 670	18	72 1	••••••
Rubber goods, not elsewhere specified Salt. Scales and balances Shipbuilding, including boat building Silk and silk goods, including throwsters.	2,066 1,525 453 5,644 12,903	101 3 2,271 32	82 9 882 1,305	88 238 120 2,000 1,042	939 16 214 160 7,753	856 984 107 331 2,771	265	20	2
Silverware and plated ware. Slaughtering and meat packing. Smelting and refining, not from the ore. Soap. Stationery goods, not elsewhere specified.	3,065 6,110 284 2,976 1,243	99 549 3 20 42	331 326 315 196	1,135 718 1,152 742	1,275 450 95 753 235	225 3,995 143 736 28	50 43	22	
Steam packing Stereotyping and electrotyping. Stoves and furnaces, including gas and oil stoves Surgical appliances and artificial limbs Tobacco manufactures.	901 905 4,247 464 30,019	35 759 373 97 10,419	143 95 105 162 5,252	46 48 811 110 1,132	622 3 1,543 72 10,542	55 1,347 23 2,657	68		••••••
Toys and games Typewriters and supplies Umbrelias and canes Vinegar and eider Wall paper.	1,197 4,538 1,919 529 1,602	161 123 59 14 1	308 181 381 4 12	26 125 234 14	666 3,563 1,112 9 613	35 546 133 484 976	2	1 1	i
Wall plaster. Window shades and fixtures Wire. Wirework, including wire rope and cable.	1,337 911 1,439 1,649	52 114 10	122	8 119 424	6 227 640	1,271 328 799			i
Wood distillation, not including turpentine and rosin. Wood, turned and carved. Woolen, worsted, and felt goods, and wool hats All other industries.	593 1,279 9,460 40,369	215 30 2,964	118 649 3,774	160	492 4,570 11,594	291 117 279 4,211 9,644	182 15 3,074	125 1,368	169 1,359

More than two-thirds of the wage earners employed in the manufacturing industries of New York in 1909 worked from 54 to 60 hours a week, while more than one-fourth (27.5 per cent) were employed in establishments where the usual hours were less than 54 a week, and only 4.1 per cent of the total were employed in establishments where more than 60 hours prevailed. The largest number was reported for establishments where the prevailing hours were more than 54 and less than 60 per week.

It will be noted that in most of the larger industries the employment was confined mainly to a week of from 54 to 60 hours. Over two-thirds of the wage earners in the cotton-goods, canning and preserving, and hosiery and knit-goods industries, and more than half of those in the slaughtering and meat-packing, bakery, brick and tile, and lumber industries, however, were employed in establishments where the usual hours were 60 per week. The majority of the wage earners engaged in the blast-furnace and in the gas industries worked more than 72 hours per week, while in marble and stone work, in printing and publishing and in several smaller industries the prevailing hours of labor for a majority of the wage earners were 48 or less per week.

Location of establishments.—The following table shows the extent to which the manufactures of New York are centralized in cities or villages of 10,000 inhabitants or over. (See Introduction.) Statistics for Lackawanna, a city having over 10,000 inhabitants, whose manufactures are practically all carried on by a single corporation, are included with those for the sections of the state outside of such cities and villages, so as to avoid the disclosure of individual operations.

	CITIES AND VILLAGES HAVING A POPULATION OF 10,000 AND OVER.										CITIES AN	DISTRICTS OUTSIDE OF CITIES AND VIL- LAGES HAVING A	
ITEM.	Year.	Aggregate.	Total.		Total. 10,000 to 25,000.		5,000.	25,000 to 100,000.		100,000 and over.		POPULATION OF 10,000 AND OVER.	
			Number or amount.	Per cent of total.	Number or amount.	Per cent of total.	Number or amount.  Per cent of total.		Number or amount.	Per cent of total.	Number or amount.	Per cent of total.	
Population	1910	9,113,614	6, 756, 593	74.1	425, 022	4.7	685,322	7. 5	5,646,249	62. 0	2,357,021	25. 9	
	1900	7,268,894	4, 917, 781	67.7	446, 342	6.1	410,868	5. <b>7</b>	4,060,571	55. 9	2,351,113	32. 3	
Number of establishments	1909	44,935	34,436	76. 6	1,915	4.3	2,494	5.6	30, 027	66. 8	10, 499	23. 4	
	1899	35,957	26,467	73. 6	2,073	5.8	1,822	5.1	22, 572	62. 8	9, 490	26. 4	
Average number of wage earners.	1909	1,003,981	856,875	85.3	67, 243	6.7	117, 101	11.7	672, 531	67. 0	147, 106	14. 7	
	1899	726,909	605,358	83.3	72, 177	9.9	70, 462	9.7	462, 719	63. 7	121, 551	16. 7	
Value of products	1909 1899	\$3,369,490,192 1,871,830,872	\$2,925,071,637 1,613,789,902	86. 8 86. 2	\$179,359,667 124,970,992	5.3 6.7	\$312,278,868 124,106,211	6.6	\$2,433,433,102 1,364,712,699	72. 2 72. 9	\$444, 418, 555 258, 040, 970	13. 2 13. 8	
Value added by manufacture	1909	1,512,585,850	1,338,483,993	88. 5	75, 178, 787	5. 0	141,536,506	9. 4	1,121,768,700	74. 2	174, 101, 857	11. 5	
	1899	853,453,686	743,566,680	87. 1	56, 794, 694	6. 7	63,000,645	7. 4	623,771,341	73. 1	109, 887, 006	12. 9	

In 1909, 86.8 per cent of the total value of products for all manufacturing industries in the state was reported from cities and villages having over 10,000 inhabitants, and 85.3 per cent of the average number of wage earners were employed in such cities and villages. While comparatively little change occurred during the decade, the industries located in incorporated places of this size were somewhat more important relatively and those located outside of such places somewhat less important in 1909 than in 1899.

It should be borne in mind, in considering this table, that the increase in the population of certain cities and villages between 1900 and 1910 has caused considerable change in the make-up of some of the groups shown in the table. Eleven places-White Plains, Olean, Port Chester, North Tonawanda, Batavia, Cortland, Ossining, Hudson, Plattsburg, Rensselaer, and Fulton-which had more than 10,000 inhabitants in 1910, had less than that number in 1900, so that for 1899 their statistics are not included with those for incorporated places having a population above that limit. The total value of products reported for these 11 places in 1909 was \$55,595,612, or 1.6 per cent of the total shown for the entire state. If the figures for these places were subtracted from those shown in the table for cities and villages of 10,000 inhabitants or over for 1909 and added to those for the remainder of the state,

the proportion for the former would be 85.2 per cent and for the latter 14.8 per cent of the aggregate. These percentages would therefore represent the proportions of the total value of products in 1909 reported for the same areas for which statistics are given for 1899. In 1900 Jamestown, Amsterdam, Mount Vernon, Niagara Falls, New Rochelle, Poughkeepsie, Newburgh, Watertown, and Kingston were cities of the first group—10,000 to 25,000 inhabitants—but during the following decade the population of each so increased that in 1910 all were cities of the second group—25,000 to 100,000 inhabitants. Albany was a city of the second group in 1900, but by 1910 the increase in the population enabled it to be classed in the third group—100,000 inhabitants or over.

Each of the three groups into which the incorporated places of 10,000 inhabitants or over are divided in the table shows a substantial increase in number of manufacturing establishments, average number of wage earners, value of manufactured products, and value added by manufacture in 1909 as compared with 1899, except that the group comprising the cities and villages having between 10,000 and 25,000 inhabitants shows a decrease in number of establishments and average number of wage earners, due principally to the changes in its composition which have already been referred to.

Of the total value of products reported for the state in 1909, 5.3 per cent was reported from the 29 cities and villages having between 10,000 and 25,000 inhabitants, 9.3 per cent from the 16 cities having between 25,000 and 100,000 inhabitants, 72.2 per cent from the 5 cities having more than 100,000 inhabitants, and 13.2 per cent from the remainder of the state.

The population in 1910 and 1900 of the 51 cities and villages which had 10,000 inhabitants or over in 1910 is given in the following statement:

CITY OR VILLAGE.	1910	1900	CITY OR VILLAGE.	1910	1900
New York City Buffalo Rochester Syracuse Albany Yonkers Proy Utica Schenectady Binghamton Elmira Auburn Jamestown Amsterdam Mount Vernon Niagara Falls New Rochelle Oughkeepsie New Horbelle Oughseepsie Newburgh Watertown Kingston Sohoes Swego Bloversville Lome Oockport	423,715 218,149 100,253 79,803 76,813 74,419 72,826 48,443 37,176 34,668 31,297 31,267 30,919 30,445 28,867 27,936	3, 437, 202 352, 387 162, 608 108, 374 94, 151 47, 931 175, 057 56, 383 31, 682 39, 647 35, 672 30, 345 22, 892 20, 929 21, 228 21, 228 21, 228 21, 228 24, 029 24, 029 24, 03 21, 622 25, 929 26, 929 27, 929 28, 929 29, 929 21, 929 21, 929 21, 929 21, 929 21, 929 21, 929 21, 929 21, 929 21, 929 22, 929 24, 943 21, 682 22, 929 24, 943 21, 682 21, 929 22, 929 24, 943 21, 948 21, 948	Dunkirk White Plains. Ogdensburg Middletown Peekskill. Glens Falls. Watervliet Ithaea Olean Lackawanna 2 Corning. Hornell. Port Chester Saratoga Springs. Geneva. Little Falls. North Tona wanda Batavia. Cortland Ossining. Hudson Plattsburg. Rensselaer Fulton Johnstown	17, 221 15, 949 15, 933 15, 313 15, 243 15, 243 14, 743 14, 7549 12, 693 12, 446 12, 273 11, 504 11, 504 11, 417 11, 138 11, 548 11, 613 11, 504 11, 417 11, 138 11, 548 11, 613 11, 6	11, 616 7, 896 12, 633 14, 522 10, 365 12, 615 14, 322 13, 138 9, 462 11, 061 11, 918 7, 440 12, 409 10, 433 10, 381 9, 069 9, 180 9, 014 7, 939 7, 930 8, 434 7, 466 88, 206

The relative industrial importance of these cities and villages is shown in the next table, in which the value of products and the average number of wage earners are shown separately for 1909, 1904, and 1899, so far as figures are available. Lackawanna is not included in that table, for reasons already referred to.

Every city or village for which comparative statistics are available shows an increase in value of products, and all but seven an increase in the number of wage earners, for the decade 1899-1909. For the five-year period 1904-1909 all except five-Dunkirk, Hudson, Ithaca, Watervliet, and Corning-show increases in value of products, and all except nine increases in the number of wage earners. The largest decrease in value of products during this period, \$3,-333,596, or 33.6 per cent, took place in Dunkirk, and was the result of the decline in the output of the locomotive works, which constituted the leading industry in that city. The decrease in Hudson was due mainly to the decline in the production of cement, while the loss in Corning was chiefly in the value of foundry and machine-shop products, two plants engaged in this branch of manufacture having moved to Rochester since 1904, and one having gone out of business. The other two cities showing losses in value of products are comparatively small industrial centers whose manufactures cover many industries. The largest

relative increase for the five-year period, 196.9 per cent, was made by Plattsburg, and was due largely to the establishment of an automobile factory there since 1904. The next largest relative gain, 113.9 per cent, was made by Olean, and was due in part to the resumption of business by a steam-railroad repair shop and a petroleum refinery in that city, both of which were idle in 1904. Other noteworthy gains occurred in Little Falls (89.2 per cent), principally as a result of the increased production of hosiery and knit goods and of leather; in Mount Vernon (79.8 per cent), mainly on account of the establishment of new industries since 1904; in Yonkers (76.9 per cent), largely as the result of the gains in the output of refined sugar, carpets and rugs, and fur-felt hats; and in Glens Falls (72.6 per cent), chiefly because of the growth of the manufacture of men's clothing (including shirts) and of cement, and the starting of new industries there since 1904.

CITY OR VILLAGE.	AVERAG WAG	GE NUM GE EARN	BER OF ERS.	VAL	UE OF PRODU	CTS.
	1909	1904	1899	1909	1904	1899
New York City.  Boroughs:	554,002	464,716	388,586	\$2,029,692,576	\$1,526,523,006	\$1,172,870,261
Manhatian Bronx Brooklyn Queens Richmond	385,358 14,434 123,883 23,891 6,436	339,221 (1) 104,995 14,905 5,595	285, 265 (1) 87, 445 10, 684 5, 192	1,388,408,005 42,680,793 417,222,770 151,680,120 29,700,888	1,043,251,923 (1) 373,462,930 92,941,158 16,866,995	810,807,975 (1) 313,617,489 35,427,561 13,017,236
Buffalo.  Buffalo.  Buffalo.  Rochester 2 Yonkers Syracuse 2 Schenectady Troy.  Utica. Niagara Falls Albany Amsterdam. Binghamton Auburn Cohoes. Jamestown Rome. Gloversville. Oswego. Olean. Newburgh 2 North Tonawanda. Poughkeepsie. Watertown 2 Little Falls Lockport. Elmira 2 Peekskill Fulton. Dunkirk Johnstown Cortland. Port Chester Kingston 2 Geneva. Ogdensburg Glens Falls 2 Middletown Batavia. Hornell. Hudson Mount Vernon. Plattsburg. Corning. Sarstoga Springs		5,595 43,567 31,779 9,779 14,554 14,316 10,882 4,976 7,993 3,208 3,746 1,175 3,746 1,175 4,013 2,025 3,775 3,208 1,1957 (3) 3,3956 2,282 (4) 3,3956 2,052 1,503 1,603 2,052 1,603 2,052 1,603 2,052 1,504 6,600 6,600 6,910 2,052 1,504 6,600 6,910 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175 1,175	3, 192 34, 275 28, 049 7, 555 11, 809 8, 494 22, 933 8, 898 2, 840 6, 2611 5, 895 8, 273 4, 528 2, 274 4, 528 2, 274 1, 656 2, 813 3, 457 1, 656 2, 813 3, 457 1, 656 2, 813 3, 457 1, 656 2, 813 3, 457 1, 281 (3) 2, 533 3, 457 1, 281 (4) 2, 533 3, 457 1, 281 (5) 2, 533 3, 457 1, 281 (6) 2, 11 1, 281 (7) 1, 281 (8) 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	218, 803, 994 112, 676, 218 59, 333, 865 49, 434, 615 59, 333, 865 49, 434, 615 38, 164, 699 37, 979, 986 31, 199, 261 22, 825, 702 14, 905, 17, 114, 214 15, 961, 022 14, 830, 722 14, 720, 240 14, 423, 437 14, 170, 682 10, 412, 888 10, 005, 443 9, 928, 146 9, 599, 776 9, 150, 964 8, 527, 416 8, 460, 408 8, 168, 450 8, 067, 208 7, 888, 183 7, 887, 114 6, 575, 664 6, 573, 528 6, 394, 624 4, 658, 788 5, 153, 925 4, 947, 976 4, 876, 786 4, 876, 786 4, 876, 786 4, 876, 786 4, 876, 786 4, 3647, 630 3, 506, 504 43, 376, 415 3, 137, 523 3, 050, 410 2, 336, 579	16, 866, 995  147, 377, 873 81, 109, 495 33, 548, 688 34, 687, 109 32, 884, 451 31, 860, 829 22, 889, 495 31, 917, 403 13, 420, 403 13, 420, 403 13, 420, 403 13, 420, 403 14, 752 10, 349, 752 10, 349, 752 10, 349, 752 10, 349, 752 11, 277 12, 260, 914 17, 250, 744 14, 411, 080 16, 307, 795 17, 206, 914 17, 250, 744 14, 411, 080 16, 307, 795 17, 206, 914 17, 250, 744 19, 103 19, 909, 260 14, 543, 272 14, 574, 191 12, 824, 876 13, 856, 330 13, 859, 406 11, 115, 525 11, 15, 525 11, 15, 525 11, 15, 525 11, 106, 772 13, 883, 516 11, 109, 073	13, 017, 238 105, 627, 182 59, 668, 959 17, 303, 690 26, 546, 297 17, 604, 859 28, 738, 800 16, 479, 327 8, 540, 184 17, 288, 693 10, 643, 310 10, 539, 242 9, 575, 500 11, 031, 169 7, 731, 033 5, 548, 622 9, 070, 526 7, 486, 637 6, 210, 156 5, 357, 742 6, 293, 686 5, 357, 652 6, 887, 831 4, 070, 596 5, 352, 669 6, 596, 603 1, 782, 977 5, 255, 966 5, 352, 669 6, 596, 603 1, 782, 977 5, 225, 996 5, 123, 370 3, 063, 828 2, 716, 145 2, 260, 889 3, 993, 634 2, 154, 742 2, 573, 132 2, 430, 998 2, 603, 677 1, 043, 136 2, 272, 864
Ithaca New Rochelle Watervliet 2 Ossining White Plains	873 735 753 356 249	873 517 1,111 (8) (3)	861 198 1,000 (3) (2)	2, 296, 089 1, 919, 968 1, 668, 724 1, 668, 579 1, 328, 925 815, 789	2,080,002 1,102,817 1,738,302 (3) (3)	(3) 1,500,604 508,162 1,507,299 (3) (3)

<sup>1</sup> Included in Manhattan Borough. Included in Manhattan Borough.

Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

Figures not available.

<sup>&</sup>lt;sup>1</sup> Includes population of parts of the towns of Brunswick, Lansingburg, and North Greenbust, annexed in 1990.

<sup>2</sup> Incorporated from part of West Seneca town in 1999. Manufacturing statistics for this city can not be shown separately without disclosing individual operations.

<sup>3</sup> Includes population of Oswego Falls, annexed in 1992.

New York City is not only the leading city and the commercial center of the United States, but also the industrial metropolis, holding first place in the total value of manufactured products as well as in many individual industries. In 1909 the population of New York City was practically equal to that of the state of Ohio, and exceeded only by Pennsylvania, Illinois, and New York itself, but the value of its manufactured products exceeded that reported by any state except Pennsylvania and New York. This predominance in manufactures is connected closely with the abundant supply of labor, its large immigrant population being in particular an influential factor in causing manufacturing enterprises to locate there. New York City is the chief center of trade between the United States and Europe and also one of the principal distributing points for domestic trade. This commercial importance has also contributed greatly to the high rank of the city in manufacturing industries and to making New York the financial center of the United States, thereby rendering it easy to obtain capital for the establishment and extension of such industries.

Measured by the increase in value of manufactured products, the industrial development of New York City from 1904 to 1909 was greater than from 1899 to 1904, the increase being \$503,169,570, or 33 per cent, for the period 1904–1909, and \$353,652,745, or 30.2 per cent, for the period 1899–1904. During the more recent five-year period the average number of wage earners in the manufacturing industries of the city increased 89,286, or 19.2 per cent, as compared with an increase of 76,130, or 19.6 per cent, for the earlier period. Of the 44,935 manufacturing establishments reported for the state in 1909, 25,938, or 57.7 per cent, were located in this city; the proportion for 1904 was 56 per cent, and for 1899, 53.5 per cent.

The establishments in New York City reported 55.2 per cent of the wage earners and 60.2 per cent of the value of products for the state in 1909, as compared with 54.2 per cent and 61.3 per cent, respectively, in 1904. The value of the city's manufactures represented 9.8 per cent of the total value of manufactured products for the United States in 1909 and 10.3 per cent in 1904. Of the 243 industry classifications employed in compiling the 1909 statistics for manufactures of the state, 217 were represented in this city, 131 of which covered industries with products valued at more than \$1,000,000.

There were 21 industries in New York City in 1909 for which a value of products in excess of \$20,000,000 was reported. For 2 of these industries, the refining of cane sugar and the smelting and refining of copper, statistics can not be presented separately without disclosing the operations of individual establishments. The other 19 industries, arranged in order of value of products, are indicated in the following tabular state-

ment, which shows the absolute and relative increase in this respect between 1904 and 1909, and also the percentage which the value of products for each industry represents of the corresponding total for the state:

	VALUE OF PRODUCTS: 1909.								
indust <b>ry.</b>		Per cent of	Increase over 1904.						
	Amount.	total for the state.	Amount.	Per cent.					
Clothing, women's. Clothing, men's, including shirts. Printing and publishing. Slaughtering and meat packing. Foundry and machine-shop products. Tobacco manufactures. Bread and other bakery products. Liquors, malt. Millinery and lace goods. Fur goods. Gas, illuminating and heating. Paint and varnish. Musical instruments, pianos and organs and materials. Furnishing goods, men's. Patent medicines and compounds and druggists' preparations. Lumber and timber products. Copper, tin, and sheet-iron products. Artificial flowers and feathers and plumes. Confectionery.	62, 488, 000 61, 904, 000 53, 469, 000 51, 239, 000 39, 874, 000 34, 117, 000 26, 664, 000 25, 496, 000 24, 122, 000 23, 303, 000 21, 098, 000	97. 8 82. 1 84. 6 75. 4 41. 4 81. 5 71. 8 68. 8 98. 3 96. 5 80. 6 93. 4 75. 8 60. 4 99. 7 78. 6	\$98,058,000 68,927,000 45,007,000 39,924,000 5,916,000 11,903,000 16,301,000 18,896,000 4,402,000 3,834,000 6,586,000 2,903,000 5,914,000 17,132,000 6,017,000	58. 2 46. 1 32. 5 71. 4 10. 2 23. 7 40. 7 23. 9 58. 4 57. 7 14. 8 34. 8 53. 5 37. 9 13. 7 34. 0 42. 8					

It will be noted that for five of the industries included in the preceding tabular statement more than 90 per cent of the total value of products for the state was reported from New York City, the proportion rising as high as 99.7 per cent in the case of the manufacture of artificial flowers and feathers and plumes. In seven other industries the establishments located in New York City contributed more than three-fourths of the total value of products for the state. For only two industries included in the table—the foundry and machine-shop and the lumber industries—was less than one-half of the total value of products for the state reported from New York City.

The leading industries in New York City in 1909 were the making of women's clothing and of men's clothing. There were 5,521 establishments in the two industries combined, which gave employment to an average of 161,400 wage earners and manufactured products valued at \$484,888,000. The printing and publishing industry was next in importance, with 2,883 establishments, 48,322 wage earners, and products valued at \$183,509,000. The value of the products of the three industries just mentioned represented 32.9 per cent of the total value of manufactured products for the city, and they employed 37.9 per cent of the average number of wage earners engaged in all manufacturing industries.

In addition to the 118 industries presented separately for New York City in Table I, page 746, there were 99 others which, for various reasons, are included under the head of "All other industries." Some of these industries were among the most impor-

tant in the city, 36 reporting products in 1909 exceeding \$1,000,000 in value. Of these, 4 reported products valued at \$10,000,000 or over; 6, products between \$5,000,000 and \$10,000,000 in value; and 26, products between \$1,000,000 and \$5,000,000 in value.

Of the five boroughs which form New York City, the Borough of Manhattan is the most important industrially, the value of the manufactured products reported by the establishments within its limits in 1909constituting 68.4 per cent of the total for the entire city. The proportions of the total contributed by the other boroughs in that year were as follows: Brooklyn, 20.6 per cent; Queens, 7.5 per cent; the Bronx, 2.1 per cent; and Richmond, 1.5 per cent. Each borough made substantial gains from 1904 to 1909 in all items covered by the manufactures statistics, with the single exception that the Borough of Richmond shows a decrease in the number of proprietors and firm members. The relative increase in value of products was much greater in the boroughs of Richmond and Queens, however, than in the city as a whole, while in the Borough of Brooklyn it was considerably less, the percentages of increase being as follows: New York City, 33; Borough of Richmond, 76.1; Borough of Queens, 63.2; Borough of Brooklyn, 11.7; and the boroughs of Manhattan and the Bronx combined, 37.2. The leading industries in the Borough of Manhattan were to a large extent the same as those previously enumerated for the city as a whole, while in the Borough of Brooklyn refined sugar was the leading product; in the Borough of Queens, smelted and refined copper; in the Borough of the Bronx, pianos and organs and materials; and in the Borough of Richmond, soap.

The totals presented for New York City do not include the statistics for three establishments operated by the Federal Government, namely, the United States navy yard, with 3,622 wage earners and products valued at \$7,032,416 in 1909; the United States Naval Clothing Factory, with 96 wage earners and products valued at \$670,198, located in Brooklyn; and the United States Lighthouse Establishment, with 60 wage earners and products, such as illuminating and signal apparatus and machinery and other lighthouse supplies, valued at \$995,745, located at Tompkinsville, in the Borough of Richmond.

<sup>1</sup> These industries are:

Awnings, tents, and sails.
Babbitt metal and solder.
Bags, other than paper.
Baking powders and yeast.
Billiard tables and materials.
Chocolate and cocoa products.
Cloth, sponging and refinishing.
Cordials and strups.
Cork. cuttine. Cork, cutting.
Dentists' materials.
Dyestuffs and extracts.
Flavoring extracts. Flour-mill and gristmill products. Glue. Grease and tallow. Hat and cap materials. Hats, straw. Iron and steel, steel works and rolling

Iron and steel forgings.
Labels and tags.
Lapidary work.
Liquors, distilled.
Mineral and soda waters.
Moving pictures.
Mucillars and seats Mucilage and paste,
Oil, linseed.
Oil, not elsewhere specified.
Oilcloth and linoleum. Onteith and lindeum.

Paper patterns.

Pencils, lead.

Petroleum, refining.

Signs and advertising novelties.

Smeltling and refining, copper.

Sugar, refining, not including beet sugar.

Thi foll.

Without

Buffalo, the second city of importance in the state, shows an increase from 1904 to 1909 of \$71,426,121, or 48.5 per cent, in value of products, and of 7,845, or 18 per cent, in the average number of wage earners. Ranked by value of products, Buffalo was ninth among the cities of the United States in 1909, as compared with eleventh in 1904. In 1909 the average number of wage earners employed in manufacturing industries in Buffalo represented 5.1 per cent, and the value of its manufactured products, 6.5 per cent, of the respective totals for the state.

The leading industries of Buffalo, arranged in the order of value of products, are indicated in the following tabular statement, which shows the absolute and relative increase in this respect between 1904 and 1909, and also the percentage which the value of products for each industry represents of the corresponding total for the state:

	VALUE OF PRODUCTS: 1909.							
INDUSTRY.		Per cent of	Increase over 1904.					
	Amount.	for the state.	Amount.	Per cent.				
Slaughtering and meat packing Foundry and machine-shop products. Flour-mill and gristmill products Automobiles, including bodies and	\$25, 416, 000 20, 775, 000 19, 942, 000	20. 0 13. 5 28. 6	\$9,196,000 6,218,000 10,134,000	56. 7 42. 7 103. 3				
parts	9,598,000 8,653,000 7,679,000 7,095,000	31. 0 36. 7 3. 5 64. 2	8,212,000 3,860,000 1,233,000 4,059,000	592.5 80.5 19.1 133.7				

The blast-furnace industry, the manufacture of linseed oil, and the smelting and refining of copper, which are also among the principal industries of the city, are not included in the above table, since statistics for these three industries can not be presented separately without disclosing the operations of individual establishments. More than one-half of the value of the linseed oil manufactured in New York in 1909 was, however, reported from Buffalo.

In addition to the 43 industries shown separately for Buffalo in Table I, page 744, and the 3 industries referred to in the preceding paragraph, there were a number of others which, for reasons similar to those given in the discussion of the corresponding group for the state as a whole (p. 688), are included under the head of "All other industries" in Table I. Some of these industries were among the more important in the city; in fact, 13 reported products between \$1,000,000 and \$5,000,000 in value for 1909.2

Rochester shows an increase in 1909, as compared with 1904, of \$31,566,780, or 38.9 per cent, in value of

Agricultural implements.
Belting and hose, woven and rubber.
Boxes, fancy and paper.
Cars, steam-railroad, not including operations of railroad companies.
Fartilizer.

Fertilizers. Food preparations. and steel, steel works and rolling Musical instruments, pianos and organs and materials.

Paint and varnish.

Petroleum, refining.
Rubber goods, not elsewhere specified.
Sulphuric, nitric, and mixed acids.
Wood distillation, not including turpentine and rosin

<sup>&</sup>lt;sup>2</sup> These industries are:

products, and 7,329, or 23.1 per cent, in the average number of wage earners. It ranked twentieth in 1909 and twenty-first in 1904 among the manufacturing cities of the United States, as measured by value of products. The average number of wage earners and the total value of products reported from this city in 1909 formed 3.9 per cent and 3.3 per cent, respectively, of the corresponding totals for the state. The leading industries of the city, named in the order of the value of their products, are the making of men's clothing, the manufacture of photographic apparatus and materials, the manufacture of boots and shoes, the foundry and machine-shop industry, and printing and publishing. The larger part of the photographic apparatus and materials manufactured in New York are made in Rochester, while 27.9 per cent of the value of products for the boot and shoe industry of the state in 1909, over one-half of that for the optical-goods industry, and 19.4 per cent of that for the button industry were reported from this city.

In addition to the 40 industries shown separately for Rochester in Table I, page 759, there were 12 other industries having a value of products in excess of \$500,000 in 1909 which are included under the head of "All other industries," some of these being among the most important industries of the city.

The manufacturing activities of Yonkers were confined largely to five industries which, named in order of their relative importance as measured by value of products, were as follows: Sugar refining, not including beet sugar; carpets and rugs, other than rag; fur-felt hats; foundry and machine-shop products; and rubber goods, "not elsewhere specified." With the exception of the foundry and machineshop industry, less than three establishments were reported for each of these industries, so that their statistics can not be presented separately without disclosing the operations of individual establishments.

The factories of Syracuse in 1909 showed an increase over 1904 of 3,594, or 24.7 per cent, in the number of wage earners, and of \$14,747,506, or 42.5 per cent, in value of products. This city has a considerable number of important industries, 14 of which had a value of products in 1909 exceeding \$1,000,000. The most important of these were the manufacture of automobiles, the foundry and machine-shop industry, the manufacture of typewriters and typewriter supplies, and the making of men's clothing.

Schenectady owes its importance largely to the manufacture of electrical machinery, apparatus, and

<sup>1</sup> These industries, named in order of the value of products, are:

supplies and the construction of steam-railroad locomotives. Three establishments were reported for the former industry and one for the latter, but the statistics for these industries can not be presented separately without disclosing the operations of individual establishments. It may be stated, however, that these two industries contributed the bulk of the total value of products shown for all manufacturing industries in the city combined. The city as a whole shows an increase in 1909, as compared with 1904, of \$5,080,248, or 15.4 per cent, in value of products and 615, or 4.3 per cent, in the average number of wage earners.

Troy, which shows an increase for the five years from 1904 to 1909 of \$6,119,157, or 19.2 per cent, in value of products, and of 906, or 4.7 per cent, in the average number of wage earners, owes its importance in manufactures mainly to the collar and cuff branch of the men's furnishing-goods industry, the men's clothing industry, and the output of the steel works and rolling mills, breweries, foundries and machine shops, and knitting mills. These 6 industries combined reported products in 1909 valued at \$29,252,466, or 77 per cent of the total value of products for the city. Trov is known throughout the country as a center for the manufacture of collars and cuffs. The 21 establishments which were engaged in this branch of manufacturing in Troy during 1909 reported products valued at \$13,638,745, which represented 85.8 per cent of the total value of such products for the state and 79.2 per cent of the total for the United States.

Utica is one of the leading cities of the state in the manufacture of textiles. During 1909 there were 15 knitting mills, 3 cotton mills, 1 worsted mill, and 1 cordage and twine mill in operation in the city, which together gave employment to an average of 7,725 wage earners and reported products valued at \$15,977,371, representing 58.7 per cent and 51.2 per cent of the respective totals for the city. Other industries of particular importance, as measured by value of products, were the making of men's clothing and the foundry and machine-shop, brewery, and lumber industries. For all industries combined the increases in 1909 over 1904 were \$8,318,944, or 36.4 per cent, in value of products, and 2,271, or 20.9 per cent, in average number of wage earners.

Niagara Falls is the center of the chemical industry in the state, the value of its chemical products in 1909 amounting to \$11,996,726, which was 33.9 per cent of the total for the industry in the state, and also represented 41.9 per cent of the total value of products for all manufacturing industries of the city combined. Furthermore, Niagara Falls far outranks all other cities of the United States in the manufacture of chemical substances by electrolytic processes, this branch of the chemical industry having developed very rapidly as a

Photographic apparatus and materials. Petroleum, refining. Optical goods. Copper, tin, and sheet-iron products. Canning and preserving. Stationery goods, not elsewhere specified.

Gas, illuminating and heating.

Cordials and sirups.
Automobiles, including bodies and parts.
Blacking and cleansing and polishing preparations. Leather goods. Hosiery and knit goods.

result of the utilization of the water power of the falls for the generation of electric current. Other industries of importance in 1909 were the manufacture of food preparations, the flour-mill and gristmill industry, and the manufacture of paper and wood pulp, silverware and plated ware, and emery and other abrasive wheels.

Albany shows an increase in 1909 over 1904 of \$2,616,987, or 12.9 per cent, in value of products, and 885, or 9.9 per cent, in the average number of wage earners. The manufacturing interests of this city include a considerable number of industries, the most important of which were printing and publishing, breweries, steam-railroad repair shops, foundries and machine shops, bakeries, and hosiery and knitting mills.

Gloversville is the center of the leather glove and mitten industry not only in the state but also in the United States. Of the 225 establishments reported for the state in 1909, 87 were located in this city, the total value of their products being \$8,869,706, or 61.9 per cent of the total for the industry in the state and 62.6 per cent of the total value reported for all industries in the city. Johnstown, with 54 establishments manufacturing leather gloves and mittens in 1909, reported a product valued at \$3,258,362, which was nearly one-half the amount reported for all the manufacturing industries of the city.

The following tabular statement shows the principal industry or industries, as measured by value of products, in each of the remaining cities and villages having 10,000 inhabitants or over:

CITY OR VILLAGE.	Principal industry.	CITY OR VILLAGE.	Principal industry.
Cohoes Jameslown. Rome Oswego Olean Newburgh. North Tonawanda Poughkeepsie Watertown Little Falls Lockport Elmira Peekskill. Fulton Dunkirk	Hosiery and kmit goods.  Tobacco manufactures. Agricultural implements. Cordage and twine. Hosiery and knit goods. Worsted goods. Furniture and refrigerators. Brass and bronze products. Matches. Starch. Petroleum, refining. Clothing, men's, including shirts. Lumber and timber products. Iron and steel, blast furnaces. Dairymen's, poulterers', and apiarists' supplies. Foundry and machine-shop products. Hosiery and knit goods. Flour-mill and gristmill products. Foundry and machine-shop products. Lumber and timber products. Liquors, distilled. Worsted goods. Locomotives, not made by railroad companies.	Tenaca	Mait. Lumber and timber products. Flour-mill and gristmill products. Clothing, men's, including shirts. Cars and general shop construction and repairs by steam railroad companies. Condensed milk. Leather, tanned, curried, and finished. Agricultural implements. Cars and general shop construction and repairs by steam railroad companies. Hosiery and knit goods. Brass and bronze products. Automobiles. Glass. Druggists' preparations. Felt goods. Printing and publishing. Frinting and publishing. Frinting and publishing. Frundry and machine-shop products.

The totals presented for Watervliet in Table I do not include the statistics for the arsenal in that city, operated by the Federal Government. In 1909 this plant employed an average of 308 wage earners and manufactured products valued at \$619,124.

Lackawanna is the center of the iron and steel industry in the state. The manufactures of the city are almost exclusively confined to that industry, which is represented mainly by two establishments, and for this reason the statistics for the city can not be presented separately, for to do so would disclose the operations of these establishments.

Character of ownership.—The table on page 707 has for its purpose the presentation of conditions in respect to the character of ownership, or legal organization, of manufacturing enterprises. For all industries combined comparative figures are given covering the censuses of 1909 and 1904. Comparative data for 1899 are not available. Figures for 1909 only are presented for several important industries individually. In order to avoid disclosing the operations of individual concerns it is necessary to omit several important industries from this table and the one following. The most important distinction shown is that be-

tween corporate and all other forms of ownership. For all industries combined, 20.8 per cent of the total number of establishments were in 1909 under corporate ownership, as against 79.2 per cent under all other forms. The corresponding figures for 1904 were 16.4 per cent and 83.6 per cent, respectively. Of the total value of products, however, the establishments operated by corporations reported 62.6 per cent in 1909, as against 37.4 per cent reported by those under all other forms of ownership, while in 1904 the corresponding figures were 56.1 per cent and 43.9 per cent, respectively. The greatest decrease in relative numerical importance from 1904 to 1909 is shown for establishments operated by individuals, which represented 56.5 per cent of the total number of establishments in 1909, as compared with 59.4 per cent in 1904. Among the industries given separately in the table, the gas industry shows the greatest proportion of the total value of products reported by establishments under the corporate form of ownership, namely, 99.9 per cent. The largest percentage for establishments operated by firms was 55.7 per cent, in the manufacture of men's clothing, and for those owned by individuals, 33.4 per cent, in the carriage and wagon industry.

INDUSTRY AND CHARACTER OF OWNERSHIP,	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.	INDUSTRY AND CHARACTER OF OWNERSHIP.	Num- ber of estab- lish- ments.	A verage number of wage earners.	Value of products.	Value added by manu- facture.
ALL INDUSTRIES: 1909. 1904.	44, 935 37, 194	1, 003, 981 856, 947	\$3,369,490,192 2,488,345,579	\$1,512,585,850 1,139,742,293	Clothing, women's, 1909 Individual Firm	3, 083 1, 470	98, 104 33, 552 48, 436	\$272, 517, 792 89, 237, 856 137, 676, 990	\$124, 375, 317 40, 725, 856 62, 150, 256
Individual: 1909	25, 407	194, 240	552, 350, 324	264, 480, 758	Corporation 1	1,344 269	16, 116	45,602,946	21, 499, 205
1904 Firm: 1909	22,081 9,822	186,317 218,203	443, 142, 687 698, 928, 348	215, 989, 876 304, 973, 706	Per cent of total	100.0 47.7	100. 0 34. 2	100. 0 32. 7	100.0 32.7
1904Corporation:	8,737	214,520	641,741,427	279,059,847	Firm Corporation 1.	43.6 8.7	49. 4 16. 4	50. 5 16. 7	50.0 17.3
1909	9,345 6,086	589,771 454,396	2,108,026,670 1,396,924,211	940, 082, 508 642, 475, 934	Confectionery, 1909		8,570	\$25, 540, 394	\$9, 896, 318
1909 1904	361 290	1,767 1,714	10, 184, 850 6, 537, 254	3,048,878 2,216,636	Individual Firm Corporation	58	2,043 1,922 4,605	6, 101, 430 6, 203, 654 13, 235, 310	1,888,700 2,229,893 5,777,725
Per cent of total:	100. 0	100.0	100.0	100. 0	Per cent of total	100.0	100.0	100.0	100.0
1904Individual:	100. 0	100.0	100.0	100.0	Firm. Corporation	42.2 23.3 34.5	23. 8 22. 4 53. 7	23. 9 24. 3 51. 8	19. 1 22. 5 58. 4
1909 1904 Firm:	56. 5 59. 4	19.3 21.7	16. 4 17. 8	17. 5 19. 0	Copper, tin, and sheet-				
1909	21. 9 23. 5	21. 7 25. 0	20. 7 25. 8	20. 2 24. 5	iron products, 1909 Individual. Firm.	686 357 144	14, 689 2, 176 1, 647	\$38, 452, 127 5, 723, 130 3, 914, 233	\$17, 417, 341 3, 164, 499 2, 151, 314
Corporation: 1909. 1904.	20. 8 16. 4	58.7 53.0	62. 6 56. 1	62. 2 56. 4	Corporation	185	10,866	28, 814, 764	12, 101, 528
Other: 1909	0.8	0. 2	0.3	0.2	Per cent of total Individual Firm	100.0 52.0 21.0	100.0 14.8 11.2	14. 9 10. 2	100. 0 18. 2 12. 4
Agricultural implements.	0.8	0.2	0.3	0.2	Corporation	27.0	74.0	74.9	69.5
1909 Individual	<b>57</b> 19	5,717 145	\$14,970,980 271,450	\$8,556,330 160,578	Flour-mill and gristmill products, 1909	983 591	2,990 771	\$69,802,278 12,859,782	\$9,331,977 1,929,975
FirmCorporation	10 28	5,519	245,308 14,454,222	158,821 8,236,931	Firm. Corporation	271 121	468 1,751	8,929,954 48,012,542	1,312,740 6,089,262
Per cent of total Individual	33.3	100.0 2.5	100.0 1.8	100.0 1.9	Per cent of totalIndividual	100.0 60.1	100. 0 25. 8	100.0 18.4	100. 0 20. 7
Firm	17. 5 49. 1	0.9 96.5	1. 6 96. 5	1.9 96.3	Firm Corporation	27.6 12.3	15. 7 58. 6	12. 8 68. 8	$14.1 \\ 65.3$
Automobiles, including bodies and parts, 1909.	113	9,861	\$30, 979, 527	\$16, 071, 425	Food preparations, 1909	177	3,023	\$17,324,076	\$7,663,823
Individual	17	413 258 9,190	1,003,804 686,829 29,288,894	604,838 382,963 15,083,624	Individual	88 36	263 589	1,630,683 2,006,644	629,713 933,983
Per cent of total	100.0	100.0	100.0	100.0	Corporation Per cent of total	53 100.0	2,171 100.0	13,686,749	6, 100, 127 100. 0
Individual Firm Corporation	20. 4 15. 0 64. 6	4. 2 2. 6 93. 2	3. 2 2. 2 94. 5	3.8 2.4 93.9	Individual	49. 7 20. 3	8.7 19.5	9.4 11.6	8.2 12.2
Boots and shoes, includ-		33.2	34.6	30.5	Corporation	29.9	71.8	79.0	79.6
ing cut stock and find- ings, 1909 Individual	296 148	21,627 2,602	\$48, 185, 914 5, 359, 600	\$19, 211, 403 2, 290, 683	shop products, 1909 Individual	1, 872 731	<b>64,066</b> 6,809	\$154,370,346 14,728,284 12,705,821	\$92,749,146 8,876,449
Firm	61	7,155 11,870	17,534,152 25,292,162	6,366,057 10,554,663	Firm. Corporation.	329 812	6,047 51,210	12,705,821	7,947,174 75,925,523
Per cent of total	100. 0 50. 0	100.0 12.0	100.0 11.1	100.0 11.9	Per cent of total	100.0 39.0	100.0 10.6	100.0 9.5	100.0 9.6
Firm. Corporation.	20.6	33.1 54.9	36. 4 52. 5	33.1 54.9	Firm Corporation	17. 6 43. 4	9. 4 79. 9	8. 2 82. 2	8.6 81.9
Carriages and wagons and materials, 1909	610	6, 116	\$13, 292, 531	\$7,483,813	Furnishing goods, men's,	375	18, 186	\$42, 197, 117	\$20, 620, 777
Individual Firm	414 131	2,116 916	4,434,217 1,605,750 7,252,564	2,661,493 1,057,207 3,765,113	Individual	201 118	2,474 4,457	8,180,665 13,918,011	3,246,180 5,963,274
Corporation	100.0	3,084	7,252,564	3,765,113	Corporation	1	11,255	20,098,441	11, 411, 323 100. 0
Individual Firm	67.9 21.5	34.6 15.0	33. 4 12. 1	35. 6 14. 1	Individual	53.6 31.5	13.6 24.5	19. 4 33. 0	15.7 28.9
Corporation	10.7	50. 4	54.6	50.3	Corporation	14.9	61.9	47.6	55.3
Chemicals, 1909 Individual	74 12	5,746 105	\$35, 346, 072 749, 025	\$15,637,518 303,022	heating, 1909 Individual	141 8	6, <b>422</b>	\$42,346,726 18,405	\$27,328,320 7,875
Firm. Corporation.	4	5,629	74,218 34,522,829	46, 259 15, 288, 237	Corporation 2Other	130 3	6,413 2	42,321,805 6,516	27,319,387 1,058
Per cent of total Individual	100. 0 16. 2	100.0	100.0 2.1	100.0 1.9	Per cent of total	5.7	100.0 0.1	100.0	100.0
Firm Corporation	5. 4 78. 4	0. 2 98. 0	0. 2 97. 7	0.3 97.8	Corporation 2Other	92. 2 2. 1	99.9	(3)	(3)
Clothing, men's, includ- ing shirts, 1909	2, 983	91, 363	\$266, 075, 427	\$130,748,784	Hats, fur-felt, 1909	44	5,013	\$10, 218, 660	\$4, 812, 395
Individual Firm Corporation	1,648	30,630 37,820	51,761,642 148,106,755	32, 264, 669 65, 952, 806 32, 531, 309	Individual Firm Corporation	9	423 641 3,949	1,558,550 1,630,879 7,029,231	\$4, 812, 395 559, 556 852, 768 3, 400, 071
Per cent of total	100.0	22,913 100.0	66, 207, 030	100.0	Per cent of total	100.0	100.0	100.0	100.0
Individual	55. 2 37. 5	33. 5 41. 4	19. 5 55. 7	24. 7 50. 4 24. 9	Individual Firm Corporation	20.5	8.4 12.8 78.8	15.3 16.0 68.8	11.6 17.7 70.7
poramon	7.2	25.1			oid disclosure of individual operation		. 10.0	. 00.0	, 10.1

<sup>1</sup> Includes the group "Other," to avoid disclosure of individual operations.
2 Includes the group "Firm," to avoid disclosure of individual operations.
3 Less than one-tenth of 1 per cent.

Number   Average establish   Average establi
1909
Individual
Individual
Per cent of total
and finished, 1909   109   5, 688   \$27, 642, 383   \$6, 701, 650   1909   178   12, 073   \$48, 859, 610   \$17, 411   1, 133   3, 783, 188   1, 188, 789   1, 1909   1, 178   12, 073   \$48, 859, 610   \$17, 411   1, 133   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 138   1, 139   1, 139   1, 139   1, 139   1, 139   1, 139   1, 139   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148   1, 148
Per cent of total         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         20.0         22.3         2.0         20.0         22.3         2.0         20.0         22.3         2.0         20.0         22.0         20.0         22.0         20.0         22.0         20.0<
Liquors, malt, 1909. 184 8,731 377,720,045 \$58,837,018 1909. 4,426 63,120 \$216,946,482 \$160,4
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1,46
Per cent of total         100.0         100.0         100.0         100.0         100.0         100.0         20.0         23.1         26.8         Per cent of total         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         100.0         1
Malt, 1909         32         524         \$11,051,078         \$2,178,636         Soap, 1909         67         2,976         \$23,582,977         \$7,99           Individual.         12         106         1,174,874         318,155         Individual.         27         423         2,932,231         9           Corporation.         17         409         9,717,011         1,829,311         Firm         9         310         2,942,807         7           Corporation.         31         2,243         18,707,939         6,2
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Millinery and lace goods, 1930         331         21,078         \$52,106,200         \$24,971,417         Woolen, worsted, and felt goods, and wool         461         6,773         16,495,172         8,070,934         Individual.         64         9,460         \$23,739,421         \$8,97         \$8,97         9,342         Individual.         14         96         200,029         11         17         1,433         3,773,116         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51         1,51
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<sup>1</sup> Includes the group "Other," to avoid disclosure of individual operations.

Size of establishment.—The tendency for manufacturing to become concentrated in large establishments, or the reverse, is a matter of interest from the standpoint of industrial organization. In order to throw some light upon it the table on page 709 groups the establishments according to the value of their products. The table also shows the average size of establish-

ments for all industries combined and for important industries separately as measured by number of wage earners, value of products, and value added by manufacture. The totals for all industries are shown in the table for the last two censuses, while for the industries separately the figures given are confined to the census of 1909.

INDUSTRY AND VALUE OF PRODUCTS.	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.	INDUSTRY AND VALUE OF PRODUCTS.	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.
ALL INDUSTRIES:					Chemicals, 1909	74	5,746	\$35,346,072	\$15,637,518
1909 1904	44, 935 37, 194	1,003,981 856,947	\$3, 369, 490, 192 2, 488, 345, 579	\$1,512,585,850 1,139,742,293	Less than \$5,000	6 10	17 33	18,028 126,956	1 4,166 58,531
Less than \$5,000:	12,274	15, 130	29, 649, 739	18,996,135	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	16 33	204 1,601	884,558 9,975,004	496,400 4,520,730
1909	10,338	14,734	25, 515, 212	16,635,765	\$1,000,000 and over	9 100.0	3,891	24,341,526 100.0	10,566,023
1904 \$20,000 and less than \$100,000:	15,325 13,352	83, 503 80, 845	165, 058, 226 138, 932, 903	93,919,002 79,360,544	Per cent of total Less than \$5,000 \$5,000 and less than \$20,000	8.1 13.5	0.3	0. 1 0. 4	(²) 100.0 (°2) 0.4
1909	11,614 9,111	211,736 188,008	515, 939, 471 405, 213, 693	266,722,940 217,005,036	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	21.6 44.6	3. 6 27. 9	2. 5	3.2 28.9
1904. \$100,000 and less than \$1,000,000: 1909	5,252	438, 229	1,412,874,684	664,347,244	\$1,000,000 and over	12.2	67. 7 78	68. 9 \$477, 650	67.6 \$211,318
1904 \$1.000,000 and over:	4,099	393, 872	1,102,583,934	531, 335, 282	Clothing, men's, including	2.000	01.000	2020 OHE 40H	0100 F40 F04
1909 1904	470 294	255, 383 179, 488	1,245,968,072 816,099,837	468, 600, 529 295, 405, 666	shirts, 1909   Less than \$5,000   \$5,000 and less than \$20,000	2, 983 307 1, 146	91,363 1,077	\$266, 075, 427 844, 529 13, 519, 432	\$130,748,784 744,970 11,987,085
Per cent of total:	100.0	100.0	100.0	100.0	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	1,013 475	17,377 29,106 28,609	42,774,000 133,760,202	28,090,785 57,572,978
1909	100.0	100.0	100.0	100.0	\$1,000,000 and over	42	15,194	75, 177, 264	32,352,966 100.0
1909	27.3 27.8	1.5 1.7	0.9 1.0	1.3 1.5	Per cent of total Less than \$5,000 \$5,000 and less than \$20,000	100.0 10.3 38.4	100.0 1.2 19.0	100.0 0.3 5.1	0.6 9.2
\$5,000 and less than \$20,000:	34.1	8.3	4.9	6.2	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	34. 0 15. 9	31.9 31.3	16. Î 50. 3	$21.5 \\ 44.0$
1904. \$20,000 and less than \$100,000: 1909.	35.9	9.4	5.6	7.0	\$1,000,000 and over	1.4	16.6 31	28.3 \$89,197	24.7 \$43,831
1909. 1904. \$100,000 and less than \$1,000,000:	25.8 24.5	21. 1 21. 9	15.3 16.3	17.6 19.0	Clothing, women's, 1909	3, 083	98,104	\$272,517,792	\$124,375,317
1909	11.7 11.0	43.7 46.0	41.9 44.3	43.9 46.6	Less than \$5,000	232 816	828 8,651	671,083 9,399,448	497,531 6,750,553
\$1,000,000 and over:	1.0	25. 4	37.0	31.0	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	1,238 781	27,858 56,539	62,855,088 177,726,446	29,082,856 77,997,679
Average per establishment:	0.8	20.9	32.8	25.9	\$1,000,000 and over Per cent of total	16 100.0	4,228 100.0	21,865,727 100.0	10, 046, 698 100. 0
1909 1904		22 23	\$74,986 66,902	\$33,662 30,643	Less than \$5,000	7.5 26.5	0.8 8.8	0. 2 3. 4	0. 4 5. 4
Agricultural implements,					\$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	40. 2 25. 3	28.4 57.6	$23.1 \\ 65.2$	$\begin{array}{c} 23.4 \\ 62.7 \end{array}$
1909 Less than \$5,000	57 13	5,717	\$14, 970, 980 30, 602	\$8,556,330 19,647	\$1,000,000 and over	0.5	4.3 32	8.0 \$88,839	8. 1 \$40, 342
\$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	12 17 10	47 432 967	109,650 911,827 3,298,526	62,128 560,949 1,567,281	Confectionery, 1909	249	8,570	\$25,540,394	\$9,896,318
\$1,000,000 and over		4,257	10,620,375	6, 346, 325	Less than \$5,000	56 75	76 383	172,931	94,401 $425,772$
Per cent of total Less than \$5,000	22.8	100.0	100.0 0.2	100.0	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	67 48	1,270 5,330	877, 328 3, 185, 189 15, 472, 987	1,220,851 5,740,717
\$5,000 and less than \$20,000 \$20,000 and less than \$100,000	$21.1 \\ 29.8$	0.8 7.6	0.7 6.1	0.7 6.6	\$1,000,000 and over Per cent of total		1,511	5,831,959	2,414,577 100.0
\$100,000 and less than \$1,000,000 \$1,000,000 and over	17.5	16.9 74.5	22. 0 70. 9	18.3 74.2	Less than \$5,000	22. 5 30. 1	0.9	0.7 3.4	1.0 4.3
Average per establishment	;	10	\$262,649	\$150,111	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	26. 9 19. 3	14.8 62.2	12.5 60.6	12.3 58.0
Automobiles, including bodies and parts, 1909. Less than \$5,000	113 11	9,861	\$30,979,527 29,928	\$16, 071, 425 19,865	\$1,000,000 and over Average per establishment	1.2	, 17.6 34	\$102,572	24. 4 \$39, 744
\$5,000 and less than \$20,000. \$20,000 and less than \$100,000	21	118 925	260,049 2,167,178	151,859	Copper, tin, and sheet- iron products, 1909	686	14, 689	\$38, 452, 127 417, 602	\$17,417,341 274,952
\$100,000 and less than \$1,000,000 \$1,000,000 and over	30	3,074 5,730	9,367,680 19,154,692	1,303,796 4,931,341 9,664,564	Less than \$5,000. \$5,000 and less than \$20,000	297	186 1,344	3, 150, 875	1,884,975
Per cent of total	100.0	100.0	100.0	100.0	\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	61	2,845 5,688	6,967,014 16,159,577	3,804,490 6,808,009
Less than \$5,000	9.7 18.6	0.1 1.2		0.9	\$1,000,000 and over Per cent of total	100.0	4, 626 100. 0	11,757,059	4, 644, 915 100. 0
\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	26.5	9. 4 31. 2	30.2	8.1 30.7	Per cent of total Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000.	22. 4 43. 3	1.3 9.1	1.1 8.2	1.6 10.8
\$1,000,000 and over	6.2	58. 1 87	61.8 \$274,155	60.1 \$142,225	\$100,000 and less than \$1,000,000	. 8.9	19. 4 38. 7 31. 5	18. 1 42. 0 30. 6	21. 8 39. 1 26. 7
Boots and shoes, includ- ing cut stock and find-					\$1,000,000 and over		21	\$56,053	\$25,390
ings, 1909 Less than \$5,000	. 57	21,627 107	\$48,185,914 161,733	\$19, 211, 403 93, 546	Flour-mill and gristmill products, 1909	<b>983</b> 68	2, 990 25	\$69, 802, 278 227, 145	\$9,331,977 35,402
\$5,000 and less than \$20,000 \$20,000 and less than \$100,000	81 74	579 1,918	919,022 3,588,566	456, 673 1, 661, 113	Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000	476 364	440 796	5,850,180 14,293,096	971, 996 2, 205, 430
\$1,000,000 and less than \$1,000,000 \$1,000,000 and over	71 13	9,858 9,165	21,019,139 22,497,454	8, 955, 348 8, 044, 723	\$100,000 and less than \$1,000,000 \$1,000,000 and over	.l 65	660 1,069	16, 651, 511 32, 780, 346	1,808,660 4,310,489
Per cent of total	100.0	100.0		100.0	Per cent of total	100.0	100.0	100.0 0.3	100.0
Less than \$5,000	19.3 27.4	0.5 2.7	1.9	0.5 2.4	\$5,000 and less than \$20,000 \$20,000 and less than \$100,000	. 48.4	14.7 26.6	8. 4 20. 5	10. 4 23. 6
\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	24.0	8. 9 45. 6	43.6	46.6	\$100,000 and less than \$1,000,000 \$1,000,000 and over	6.6	22. 1 35. 8	23.9 47.0	19. 4 46. 2
\$1,000,000 and over	4.4	42.4	\$162,790	\$64,903	Average per establishment		. 3	\$71,009	\$9,493
Carriages and wagons and materials, 1909	610	6, 116	\$13, 292, 531	\$7, 483, 813	Food preparations, 1909. Less than \$5,000	. 58	3, 023 59	\$17,324,076 158,022	\$7,663,823 83,396
Less than \$5,000	228 267	265 1,407	559,956 2,661,516	362,725 1,752,665	\$5,000 and less than \$20,000 \$20,000 and less than \$100,000	53 41	149 462	507.265	83,396 236,269 806,417
\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	. 90	1,830 2,614	3,565,186	2,051,842	\$100,000 and less than \$1,000,000 \$1,000,000 and over	20 5	1,342 1,011	2, 151, 747 6, 228, 989 8, 278, 053	2,317,943 4,219,798
Per cent of total	100.0	100.0		100.0	Per cent of total	100.0	100.0 2.0	100.0	100.0 1.1
Less than \$5,000	37.4 43.8	4.3 23.0	4. 2 20. 0	4.8 23.4	Less than \$5,000\$5,000 and less than \$20,000\$20,000 and less than \$100,000	. 23.2	4.9 15.3	2.9 12.4	3.1 10.5
\$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	14.8 4.1	29.9 42.7	26.8 48.9	44.3	\$100,000 and less than \$1,000,000 \$1,000,000 and over Average per establishment	.] 11.3	33.4	36.0 47.8	30.2 55.1
Average per establishment	l	1 T neg	\$21,791	\$12,269	Average per establishment 2 Less tha		.l 17	\$97,876	\$43,298

INDUSTRY AND VALUE OF PRODUCTS.	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.	INDUSTRY AND VALUE OF PRODUCTS.	Number of establishments.	Average number of wage earners.	Value of products.	Value added by manu- facture.
Foundry and machine- shop products, 1909  Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	358 621 567 305 21	64, 066 464 3, 385 11, 828 33, 110 15, 279	\$154, 370, 346 932, 256 6, 701, 871 26, 043, 771 81, 694, 075 38, 998, 373	\$92, 749, 146 643, 314 4, 395, 393 15, 713, 541 46, 343, 320 25, 653, 578	Liquors, malt, 1909. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over	6 7 34	8,731 11 24 347 5,029 3,320	\$77, 720, 045 17, 057 74, 721 2, 000, 660 41, 459, 150 34, 168, 457	\$58, \$37, 018 10, 948 48, 499 1, 402, 361 31, 120, 908 26, 254, 302
Per cent of total.  Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and less than \$1,000,000. Average per establishment.	19. 1 33. 2 30. 3	100.0 0.7 5.3 18.5 51.7 23.8 34	100. 0 0. 6 4. 3 16. 9 52. 9 25. 3 \$82, 463	100.0 0.7 4.7 16.9 50.0 27.7 \$49,545	Per cent of total. Less than \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000. \$1,000,000 and less than \$1,000,000. Average per establishment.	3. 3 3. 8 18. 5 63. 6 10. 9	100. 0 0. 1 0. 3 4. 0 57. 6 38. 0 47	100.0 (1) 0.1 2.6 53.3 44.0 \$422,392	100.0 (1) 0.1 2.4 52.9 44.6 \$319,766
Furnishing goods, men's, 1909. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$100,000 and over.	87	18, 186 134 1, 020 1, 913 7, 623 7, 496	\$42,197,117 125,773 1,222,298 5,463,434 23,674,657 11,710,955	\$20, 620, 777 91, 042 750, 712 2, 092, 590 10, 047, 966 7, 638, 467	Lumber and timber prod- ucts, 1909.  Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	2, 263 1, 057 660 379 161 6	27, 471 1, 388 3, 921 7, 342 12, 746 2, 074	\$72, 529, 813 2, 198, 541 6, 785, 205 16, 863, 586 36, 806, 620 9, 875, 861	\$30, 824, 722 1, 358, 891 4, 005, 902 8, 324, 816 15, 061, 294 2, 073, 819
Per cent of total Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and over Average per establishment	12.5 30.1 33.1	100. 0 0. 7 5. 6 10. 5 41. 9 41. 2 48	100. 0 0. 3 2. 9 12. 9 56. 1 27. 8 \$112, 526	100. 0 0. 4 3. 6 10. 2 48. 7 37. 1 \$54, 989	Per cent of total.  Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.  Average per establishment.	46.7 29.2 16.7 7.1	100. 0 5. 1 14. 3 26. 7 46. 4 7. 5	100.0 3.0 9.4 23.3 50.7 13.6 \$32,050	100. 0 4. 4 13. 0 27. 0 48. 9 6. 7 \$13, 621
Gas, illuminating and heating, 1909. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	8	6, 422 22 127 453 1, 495 4, 325	\$42,346,726 77,208 409,437 1,606,910 6,585,366 33,667,805	\$27,328,320 30,061 264,516 1,080,408 4,940,402 21,012,933	Malt, 1909 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and over	3	524 7 74 263 180	\$11, 051, 078 43, 076 675, 160 5, 174, 154 5, 158, 688	\$2, 178, 636 13, 508 213, 483 1, 033, 521 918, 124
Per cent of total Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and over Average per establishment.	1 149 1	100. 0 0. 3 2. 0 7. 1 23. 3 67. 3 46	100. 0 0. 2 1. 0 3. 8 15. 6 79. 5 \$300, 331	100.0 0.1 1.0 4.0 18.1 76.9 \$193,818	Per cent of total. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over. Average per establishment.  Marble and stone work.	100.0 9.4 34.4 46.9 9.4	100. 0 1. 3 14. 1 50. 2 34. 4 16	100.0 0.4 6.1 46.8 46.7 \$345,346	100.0 0.6 9.8 47.4 42.1 \$68,082
Hats, fur-felt, 1909. Less than \$5,000. \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000. \$1,000,000 and over	44 5 11 13 12 3	5,013 5 60 232 1,535 3,181	\$10, 218, 660 14, 193 132, 659 745, 079 3, 624, 073 5, 702, 656	\$4, 812, 395 8, 308 51, 576 313, 103 1, 675, 366 2, 764, 042	1909	655 192 264 156 43	6,939 304 1,270 2,686 2,679	\$17, 921, 285 513, 940 2, 695, 678 6, 669, 947 8, 041, 720	\$10, 845, 761 385, 049 1, 700, 880 4, 135, 771 4, 624, 061 100. 0
Per cent of total. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over. Average per establishment.	100. 0 11. 4 25. 0 29. 5 27. 3 6. 8	100. 0 0. 1 1. 2 4. 6 30. 6 63. 5 114	100.0 0.1 1.3 7.3 35.5 55.8 \$232,242	100. 0 0. 2 1. 1 6. 5 34. 8 57. 4 \$109, 373	\$20,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. Average per establishment.		4, 4 18. 3 38. 7 38. 6 11	2. 9 15. 0 37. 2 44. 9 \$27, 361	3.6 15.7 38.1 42.6 \$16,558
Hoslery and knit goods, 1909 Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and over	360 22 56 137 130	35,950 51 444 3,560 19,955	\$67, 130, 296 63, 324 732, 389 6, 952, 288 38, 655, 565	\$28, 452, 925 31, 642 367, 719 2, 845, 925 15, 810, 221	\$5,000 and less than \$20,000 \$20,000 and less than \$1,000,000 \$20,000 and less than \$10,000,000 \$100,000 and less than \$1,000,000 \$100,000 and less than \$1,000,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$	931 135 273 373 150	21, 078 312 2, 165 7, 916 10, 685	\$52, 106, 200 357, 617 3,011, 348 17, 431, 090 31, 306, 145 100. 0	\$24, 971, 417 266, 722 2, 001, 973 8, 859, 194 13, 843, 528
Per cent of total	15 100. 0 6. 1 15. 6 38. 1 36. 1 4. 2	11,940 100.0 0.1 1.2 9.9 55.5 33.2	20, 726, 730 100. 0 0. 1 1. 1 10. 4 57. 6 30. 9	9, 397, 418 100. 0 0. 1 1. 3 10. 0 55. 6 33. 0	\$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 <sup>2</sup> Average per establishment Musical instruments, planos and organs and	14. 5 29. 3 40. 1 16. 1	1. 5 10. 3 37. 6 50. 7 23	0.7 5.8 33.5 60.1 \$55,968	1. 1 8. 0 35. 5 55. 4 \$26, 822
Leather goods, 1909	483 113 159 156 55	7,586 175 727 2,696 3,988	\$186,473 \$20,996,602 324,474 1,611,050 7,349,056	\$79,036 \$9,364,501 203,509 741,180 3,397,981	materials, 1909	184 16 21 70 72 5	11,938 23 81 1,505 8,125 2,204	\$33,679,953 49,408 208,506 3,998,103 21,924,333 7,499,603	\$16, 185, 206 36, 568 129, 444 2, 005, 905 10, 371, 782 3, 641, 507
Per cent of total. Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000. Average per establishment.	100.0 23.4 32.9 32.3 11.4	100. 0 2. 3 9. 6 35. 5 52. 6 16	11,712,022 100.0 1.5 7.7 35.0 55.8 \$43,471	5,021,831 100.0 2.2 7.9 36.3 53.6 \$19,388	Per cent of total.  Less than \$5,000.  \$5,000 and less than \$20,000.  \$20,000 and less than \$100,000.  \$1,000,000 and less than \$1,000,000.  \$1,000,000 and less than \$1,000,000.	100. 0 8. 7 11. 4 38. 0 39. 1 2. 7	100. 0 0. 2 0. 7 12. 6 68. 1 18. 5 65	100.0 0.1 0.6 11.9 65.1 22.3 \$183,043	100.0 0.2 0.8 12.4 64.1 22.5 \$87,963
Leather, tanned, curried, and finished, 1909. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$1,000,000. \$1,000,000 and less than \$1,000,000. Per cent of total.	109 16 11 29 46 7	5,688 25 98 716 2,995 1,854	\$27, 642, 383 40, 429 128, 609 1, 510, 284 13, 937, 927 12, 025, 134	\$6,701,650 34,053 79,174 715,609 3,402,662 2,470,152	Paint and varnish, 1909 Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$1,000,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	147 11 39 49 41 7	3,047 11 83 311 1,570 1,072	\$28,559,474 24,945 440,518 2,203,840 14,262,147 11 628,024	\$10,664,108 5,947 179,129 918,911 5,620,038 3,940,083
Less than \$5,000 less than \$20,000 \$25,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and less than \$1,000,000 \$1,000,000 and over Average per establishment		100. 0 0. 4 1. 7 12. 6 52. 7 32. 6 52	100.0 0.1 0.5 5.5 50.4 43.5 \$253,600	100.0 0.5 1.2 10.7 50.8 36.9 \$61,483	Per cent of total Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and ver Average per establishment		100. 0 0. 4 2. 7 10. 2 51. 5 35. 2 21	100.0 0.1 1.5 7.7 49.9 40.7 \$194,282	100.0 0.1 1.7 8.6 52.7 36.9 \$72,545
<sup>1</sup> Less than	~HO-16HIL	on 1 ber o	æut.		<sup>2</sup> Includes the gro	up "\$1,0	000,000 and	l over.''	

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INDUSTRY AND VALUE OF PRODUCTS.	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.	INDUSTRY AND VALUE OF PRODUCTS.	Num- ber of estab- lish- ments.	Average number of wage earners.	Value of products.	Value added by manu- facture.
Paper and wood pulp, 1809	178 9 10 58 90	12,073 17 85 1,136 7,400 3,435	\$48, 859, 610 28, 036 134, 463 3, 255, 305 28, 781, 527 16, 660, 279	\$17,092,327 13,578 63,779 1,350,946 10,160,593 5,503,431	Soap, 1909. Less than \$5,000 \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	18 15 18 10 6	2,976 16 44 179 521 2,216	\$23, 582, 977 49, 280 174, 857 1, 064, 936 4, 303, 259 17, 990, 645	\$7,970,595 25,763 78,843 390,679 1,362,516 6,112,794
Per cent of total. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000.: \$100,000 and less than \$1,000,000. \$1,000,000 and over. A verage per establishment.	100.0 5.1 5.6 32.6 50.6 6.2	100.0 0.1 0.7 9.4 61.3 28.5	100. 0 0. 1 0. 3 6. 7 58. 9 34. 1 \$274, 492	100. 0 0. 1 0. 4 7. 9 59. 4 32. 2 \$96. 024	Per cent of total.  Less than \$5,000 \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000 \$1,000,000 and over.  Average per establishment.	26. 9 22. 4 26. 9 14. 9 9. 0	100. 0 0. 5 1. 5 6. 0 17. 5 74. 5 44	100. 0 0. 2 0. 7 4. 5 18. 2 76. 3 \$351, 985	100. 0 0. 3 1. 0 4. 9 17. 1 76. 7 \$118, 964
Printing and publishing, 1909 Less than \$5,000 and less than \$20,000 \$20,000 and less than \$100,000 \$100,000 and less than \$1,000,000	4, 426 1, 559 1, 572 930 333	63, 120 1, 881 7, 063 14, 132 25, 931 14, 113	\$216,946,482 4,074,169 15,845,601 40,601,847 90,743,703 65,681,162	\$160, 452, 222 3, 176, 631 12, 497, 692 30, 284, 593 66, 924, 150 47, 569, 156	Tobacco manufactures, 1909. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	2, 468 596 208 88	30, 019 1, 862 2, 854 4, 405 11, 795 9, 103	\$76, 661, 552 4, 723, 167 5, 408, 991 8, 392, 863 25, 424, 502 32, 712, 029	\$45,320,146 3,015,897 3,367,618 5,068,237 14,579,257 19,289,137
Per cent of total. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over. A verage per establishment.	100.0 35.2 35.5 21.0 7.5	100.0 3.0 11.2 22.4 41.1	100. 0 1. 9 7. 3 18. 7 41. 8 30. 3 \$49,016	100. 0 2. 0 7. 8 18. 9 41. 7 29. 6	Per cent of total. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over. Average per establishment.	73. 2 17. 7 6. 2 2. 6 0. 3	100. 0 6. 2 9. 5 14. 7 39. 3 30. 3 89	100. 0 6. 2 7. 1 10. 9 33. 2 42. 7 \$22, 741	100. 0 6. 7 7. 4 11. 2 32. 2 42. 6 \$13, 444
Slaughtering and meat packing, 1909.  Less than \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	238 20 53 67 74	6,110 12 86 295 1,259	\$127, 130, 051 43, 462 626, 413 3, 086, 392 25, 250, 030 98, 123, 754	\$16,961,817 17,070 161,251 651,420 3,143,123 12,988,953	Woolen, worsted, and felt goods, and wool hats, 1909. Less than \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.	64 10 3 16 30	9,460 11 38 415 4,665 4,331	\$23, 739, 421 19, 664 35, 739 732, 866 12, 654, 411 10, 296, 741	\$8,995,393 10,061 18,058 327,360 4,768,879 3,871,035
Per cent of total.  Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over.  A verage per establishment.	8. 4 22. 3 28. 2 31. 1	0.2 1.4 4.8 20.6 73.0	100.0 (1) 0.5 2.4 19.9 77.2 \$534,160	100. 0 0. 1 1. 0 3. 8 18. 5 76. 6 \$71,268	Per cent of total. Less than \$5,000. \$5,000 and less than \$20,000. \$20,000 and less than \$100,000. \$100,000 and less than \$1,000,000. \$1,000,000 and over. A verage per establishment.	15.6 4.7 25.0 46.9 7.8	49. 3 45. 8	3.1	100.0 0.1 0.2 3.6 53.0 43.0 \$140,553

1 Less than one-tenth of 1 per cent.

This table shows that in 1909 of the 44,935 establishments only 470, or 1 per cent, had a value of products exceeding \$1,000,000. These establishments, however, employed an average of 255,383 wage earners, or 25.4 per cent of the total number in all establishments, and reported 37 per cent of the total value of products and 31 per cent of the total value added by marfufacture.

On the other hand, the very small establishments—that is, those having a value of products of less than \$5,000—constituted a considerable proportion (27.3 per cent) of the total number of establishments, but the value of their products amounted to only ninetenths of 1 per cent of the total. The great bulk of the manufacturing was done in establishments having products valued at \$100,000 or over.

It will be seen from the above table that during the five years from 1904 to 1909 there was a considerable increase in the relative importance, as measured by value of products, of the largest establishments—those reporting products valued at \$1,000,000 or over—and a slight decrease in that of all other classes.

The fact that the average value of products per establishment increased from \$66,902 to \$74,986, and the average value added by manufacture from \$30,643 to \$33,662, can not be taken as in itself indicating a tendency toward concentration. These increased

values may be, and probably are, due in part to the increase that has taken place in the prices of commodities. The average number of wage earners per establishment decreased from 23 to 22.

This table shows further that when the size of the establishments is measured by the average value of products per establishment, the chemical, brewery, and slaughtering and meat-packing industries were conducted in comparatively large establishments, while the carriage and wagon, marble and stone work, to-bacco manufactures, and lumber industries were conducted in rather small establishments.

Of the industries shown separately, slaughtering and meat packing had the largest establishments, with an average value of products amounting to \$534,160, and the carriage and wagon industry the smallest, with products valued on the average at \$21,791 per establishment.

In some respects, and especially from the standpoint of conditions under which persons engaged in manufactures work, the best classification of establishments to bring out the feature of size is a classification according to the number of wage earners employed. The table on the following page shows, for 1909, such a classification for all industries combined and for 58 important industries individually, and gives not only the number of establishments in each group, but also the average number of wage earners employed.

				ES	STABLISHM	ENTS EM	PLOYING—			
INDUSTRY	Total.	No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.
				N	UMBER O	F ESTABLI	SHMENTS.		1	-
All industries.	1 '	4, 667	20, 799	10, 524	5, 057	2, 050	1,253	384	143	58
Agricultural implements Artificial flowers and feathers and plumes Automobiles, Including bodies and parts Boots and shoes, including cut stock and findings Boxes, fancy and paper.	319 113 296 315	2 7 2 10 1	22 72 27 94 42	9 115 29 72 115	13 87 24 39 94	23 13 29 39	1 14 10 30 22	2 1 3 11 1	3 2 10 1	3 1
Brass and bronze products. Bread and other bakery products. Butter, cheese, and condensed milk Canning and preserving. Carpets and rugs, other than rag.	247 3,978 1,552 790 16	12 291 234 9	2,991 1,249 579	77 595 42 129 4	20 59 21 47 1	12 26 5 17 4	11 10 1 8 1	4 5 2	1 i 1 1	1
Carriages and wagons and materials.  Cars and general shop construction and repairs by steam-railroad com-	610	55	349	154	26	18	7	1		
Chemicals Clothing, men's, including shirts. Clothing, women's	74 2,983 3,083	93 44	3 22 640 494	12 17 1, 140 1, 145	10 15 755 895	13 8 216 324	11 8 92 154	8 2 33 25	11 1 12 2	1 1 2
Coffee and spice, roasting and grinding Confectionery Copper, tin, and sheet-iron products Cordage and twine and jute and linen goods Cotton goods, including cotton small wares	249 686 16 47	8 9 22	36 103 364 3 2	35 61 189	7 37 55 2 8	1 16 29 1 8	2 17 15 5 9	4 8 2 5	1 2 3 1 2	1 2 3
Electrical machinery, apparatus, and supplies Flour-mill and gristmill products Food preparations. Foundry and machine-shop products Fur goods.	983 177 1,872 863	156 16 81 53	86 762 105 701 428	64 47 31 549 292	28 13 9 268 72	16 8 138 13	15 1 7 88 5	1 1 32	1 1	4
Furnishing goods, men's Furniture and refrigerators. Gas and electric fixtures and lamps and reflectors. Gas, Illuminating and heating Gloves and mittens, leather.	375 676 183 141 225	19 14 3 27 17	125 237 64 56 78	125 194 52 27 69	55 120 35 12 23	21 70 13 5 23	19 31 14 8 11	6 10 2 4 4	4	1 2
Hats, fur-felt. Hosiery and knit goods. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills. Jewelry.	44 360 9 25 479	4 7 53	13 44 2 228	107 1137	9 57 3 45	4 44 3 4 12	68 2 4 2	21 3 6 2	1 9 1 2	1 3 3
Leather goods Leather, tanned, curried, and finished Liquors, malt Lumber and timber products Malt	483 109 184 2,263 32	20 4 2 105	219 21 15 1,361	144 23 47 506 16	70 28 67 177	21 18 35 68 4	7 12 15 37	2 3 3 7	2	
Marble and stone work. Millinery and lace goods. Musical instruments, planos and organs and materials. Oil, linseed. Paint and varnish	1	37 30 1	382 244 32 78	145 364 51 1 31	69 197 40 1 19	16 65 27 2 9	6 29 23 1 8	2 7 1	3	
Paper and wood pulp. Paper goods, not elsewhere specified. Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing.	178 107 743 42 4,426	3 156 2 1,261	11 36 423 16 1,771	44 32 109 10 885	52 14 37 •8 286	38 9 13 3 111	24 9 5 2 72	8 4 	1	1 4
Shipbuilding, including boat building. Silk and silk goods, including throwsters. Slaughtering and meat packing. Soap. Tobacco manufactures.	255 170 238 67 3,371	37 3 15 8 1,096	121 19 129 28 1,794	61 38 49 15 294	17 37 25 7 95	13 32 9 1 36	2 28 5 5 33	2 11 4 2 13	1 2 2 2	1 i 4
Typewriters and supplies. Wire Woolen, worsted, and felt goods, and wool hats All other industries.	43 7 64 8,011	1 5 625	18 1 7 3,932	12 1 9 1,985	11 830	2 1 9 325	2 2 12 211	1 1 7 68	$\begin{array}{c}1\\1\\3\\26\end{array}$	2 1 9
			AV	ERAGE N	UMBER O	F WAGE E	ARNERS.			•
All industries.	1, 003, 981		48, 402	121, 330	162, 696	145, 116	189, 485	132, 046	98, 443	106, 463
Agricultural implements. Artificial flowers and feathers and plumes. Automobiles, including bodies and parts. Boots and shoes, including cut stock and findings. Boxes, fancy and paper.	8,493 9,861		53 218 75 260 136	125 1,390 380 865 1,460	485 2,829 773 1,313 2,969	321 1,698 934 2,194 2,692	150 2,027 1,672 4,890 3,230	688 331 984 3,790 313	2, 130 1, 520 7, 156 738	1,765 3,523 1,159
Brass and bronze products. Bread and other bakery products. Butter, cheese, and condensed milk Canning and preserving Carpets and rugs, other than rag.	6,651 21,357 2,866 7,075 11,898		304 7,669 1,366 1,112	910 5, 285 402 1, 368 46	582 1,818 673 1,580 47	789 1,876 321 1,306 324	1,691 1,539 104 1,183 225	1,391 1,541	984 526 554	1,629 9,984
Carriages and wagons and materials.  Cars and general shop construction and repairs by steam-railroad companies.	6,116	••••	913	1,612	819	1,288	1, 116	368	<b></b>	
Chemicals. Clothing, men's, including shirts. Clothing, women's.	91,363		$   \begin{array}{c c}     12 \\     74 \\     1,733 \\     1,589   \end{array} $	170 222 14,679 14,707	400 546 24,132 28,779	985 537 14,880 22,099	1,714 1,490 13,822 22,135	3,007 690 11,624 7,688	8,215 714 8,407 1,107	1,951 1,473 2,086

				EST	ABLISHMI	ENTS EMP	LOYING—			
INDUSTRY.	Total.	No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.
	No. of the control of		AVERAG	E NUMBE	R OF WA	GE EARN	ers-cont	inued.	<del></del>	<u> </u>
Coffee and spice, roasting and grinding Confectionery. Copper, tin, and sheet-iron products. Cordage and twine and jute and linen goods. Cotton goods, including cotton small wares.	1,519 8,570 14,689 5,952 10,663		76 236 940 6 7	386 722 1,976	179 1,225 1,718 66 269	55 1,107 2,018 80 621	316 2,691 2,212 744 1,232	1,446 2,494 840 1,695	507 1,143 1,910 827 1,135	1,421 3,389 5,595
Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products. Food preparations. Foundry and machine-shop products. Fur goods.	18,972 2,990 3,023 64,066 8,244		$\begin{array}{c} 224 \\ 1,255 \\ 228 \\ 1,875 \\ 1,291 \end{array}$	677 448 340 6, 278 3, 004	848 399 293 8,756 2,250	1,147 190 664 9,699 805	2,327 194 1,149 13,187 894	457 349 10,988	638 504 7,973	12,654 5,310
Furnishing goods, men's. Furniture and refrigerators Gas and electric fixtures and lamps and reflectors. Gas, illuminating and heating. Gloves and mittens, leather	20, 281 6, 017 6, 422 6, 287		345 651 176 150 208	1,452 2,264 639 285 841	1,845 3,930 1,118 383 726	1,556 4,990 934 313 1,656	2,767 4,700 2,496 1,145 1,486	1,367	2,663	5,560 2,779
Hats, fur-felt. Hosiery and knit goods. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills. Jewelry.			37 133 5 5 571	$   \begin{array}{r}     109 \\     1,409 \\     \hline     12 \\     1,536   \end{array} $	118 1,503	279 3, 298 281 291 839	10,326 348 588 299	1, 521 8, 167 1, 149 2, 219 631	527 6,451 520 1,573	2,283 4,254 5,285
Leather goods. Leather, tanned, curried, and finished. Liquors, malt. Lumber and timber products. Malt.	7, 586 5, 688 8, 731 27, 471 524		529 51 47 2,696 37	1,718 306 620 5,613 203	2,191 810 2,341 5,583 47	1,520 1,338 2,452 4,813 237	1,027 1,953 2,165 5,330		1,374	
Marble and stone work Millinery and lace goods Musical instruments, pianos and organs and materials Oil, linseed Paint and varnish	21,078 11,938 566		931 780 71	1,631 4,373 655 7 319	2,261 6,379 1,343 35 625	1,148 4,612 1,981 146 649	968 4, 209 3, 655 103 1, 259	725 2,363 275		
Paper and wood pulp. Paper goods, not elsewhere specified Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing	4, 728 4, 088		28 116 862 47 4,638	587 401 1,238 130 9,574	1,709 445 1,172 276 9,231	2, 808 608 909 223 8, 089	3, 884 1, 344 547 228 10, 884	2, 556 1, 389 8, 543	501 7,250	3,184 4,911
Shipbuilding, including boat building. Silk and silk goods, including throwsters Slaughtering and meat packing. Soap. Tobacco manufactures.	12,903		264 61 310 70 3,236	724 482 548 156 3,021	600 1,190 770 192 2,894	934 2, 255 607 69 2, 554	348 4,170 808 777 4,984	584 3, 703 1, 361 610 4, 133	548 1,042 1,706 4,077	1,642  1,102 5,120
Typewriters and supplies. Wire. Woolen, worsted, and felt goods, and wool hats	9, 460		64 1 21 9,419	155 18 116 22,627	123 344 26,595	154 60 711 23,172	272 387 2,067 32,027	323 409 2, 290 23, 559	512 564 2,260 18,317	2,935 1,651 13,818
		Р	ER CENT	OF AVER	AGE NUM	BER OF W	AGE EAR	NERS.	<del></del>	
All industries	100.0		4.8 0.9	12. 1 2. 2	<b>16.2</b> 8.5	<b>14.5</b> 5.6	18.9 2.6	13. 2 12. 0	9. 8 37. 3	10.6
Agricultural implements. Artificial flowers and feathers and plumes. Automobiles, including bodies and parts. Boots and shoes, including cut stock and findings. Boxes, fancy and paper.	100. 0 100. 0 100. 0		2. 6 0. 8 1. 2 1. 2	16. 4 3. 9 4. 0 12. 7	33.3 7.8 6.1 25.7	20. 0 9. 5 10. 1 23. 3	23. 9 17. 0 22. 6 28. 0	3.9 10.0 17.5	15. 4 33. 1 6. 4	30.9 35.7 5.4
Brass and bronze products. Bread and other bakery products. Butter, cheese, and condensed milk. Canning and preserving Carpets and rugs, other than rag	100. 0 100. 0 100. 0		4. 6 35. 9 47. 7 15. 7	13. 7 24. 7 14. 0 19. 3 0. 4	8. 8 8. 5 23. 5 22. 3 0. 4	11.9 8.8 11.2 18.5 2.7	25. 4 7. 2 3. 6 16. 7 1. 9		7.4 4.7	7.6 83.9
Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad companies Chemicals Clothing, men's, including shirts Clothing, women's.	100. 0 100. 0 100. 0		14.9 0.1 1.3 1.9 1.6	26. 4 1. 0 3. 9 16. 1 15. 0	2. 4 9. 5 26. 4 29. 3	21.1 6.0 9.3 16.3 22.5	18-2 10.4 25.9 15.1 22.6	6.0 18.3 12.0 12.7 7.8	49. 9 12. 4 9. 2 1. 1	
Coffee and spice, roasting and grinding Confectionery Copper, tin, and sheet-iron products Cordage and twine and jute and linen goods Cotton goods, including cotton small wares	100. 0 100. 0 100. 0 100. 0		5. 0 2. 8 6. 4 0. 1 0. 1	25. 4 8. 4 13. 5	11.8 14.3 11.7 1.1 2.5	3.6 12.9 13.7 1.3 5.8	20. 8 31. 4 15. 1 12. 5 11. 6	16. 9 17. 0 14. 1	33. 4 13. 3 13. 0 13. 9 10. 6	
Electrical machinery, apparatus, and supplies. Flour-mill and gristmill products. Food preparations. Foundry and machine-shop products. Fur goods	100. 0 100. 0 100. 0		1. 2 42. 0 7. 5 2. 9 15. 7	3.6 15.0 11.2 9.8 36.4	4.5 13.3 9.7 13.7 27.3	6. 0 6. 4 22. 0 15. 1 9. 8	12.3 6.5 38.0 20.6 10.8	11.5 17.2	3. 4 16. 9 12. 4	66.7
Furnishing goods, men's . Furniture and refrigerators Gas and electric fixtures and lamps and reflectors. Gas, illuminating and heating Gloves and mittens, leather	100. 0 100. 0 100. 0 100. 0 100. 0		1.9 3.2 2.9 2.3 3.3	8.0 11.2 10.6 4.4 13.4	6.0	8. 6 24. 6 15. 5 4. 9 26. 3	17.8	18. 5 10. 9 21. 3		

				I	ESTABLISH	MENTS E	MPLOYING			
INDUSTRY.	Total.	No wage earners.	1 to 5 wage earners.	6 to 20 wage earners.	21 to 50 wage earners.	51 to 100 wage earners.	101 to 250 wage earners.	251 to 500 wage earners.	501 to 1,000 wage earners.	Over 1,000 wage earners.
		PER (	ENT OF	VERAGE	NUMBER	OF WAGE	EARNER	s—contin	ued.	
Hats, fur-felt. Hosiery and knit goods. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills. Jewelry.	100. 0 100. 0 100. 0		0. 7 0. 4	2. 2 3. 9 0. 1	5. 1 5. 3 1. 2	5. 6 9. 2 12. 2 2. 9	28. 7 15. 1 5. 8	30. 3 22. 7 50. 0 22. 0	10.5 17.9 22.6 15.6	11.8
Leather goods. Leather, tanned, curried, and finished Liquors, malt. Lumber and timber products. Malt	100. 0 100. 0 100. 0 100. 0		7. 0 0. 9 0. 5 9. 8 7. 1	28. 6 22. 6 5. 4 7. 1 20. 4 38. 7	27. 9 28. 9 14. 2 26. 8 20. 3 9. 0	15. 6 20. 0 23. 5 28. 1 17. 5 45. 2	5. 6 13. 5 34. 3 24. 8 19. 4	11.7 7.9		
Marble and stone work. Millinery and lace goods. Musical instruments, pianos and organs and materials. Oil, linseed. Paint and varnish.	100. 0 100. 0		13. 4 3. 7 0. 6	23. 5 20. 7 5. 5 1. 2 10. 5	32. 6 30. 3 11. 2 6. 2 20. 5	16. 5 21. 9 16. 6 25. 8 21. 3	14. 0 20. 0 30. 6 18. 2 41. 3	3. 4 19. 8 48. 6	15.7	
Paper and wood pulp. Paper goods, not elsewhere specified. Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing. Shipbuilding, including boat building.	100. 0 100. 0 100. 0 100. 0		0. 2 2. 7 18. 2 1. 1 7. 3	4.9 9.3 26.2 3.2 15.2	14. 2 10. 3 24. 8 6. 8 14. 6	23. 3 14. 1 19. 2 5. 5 12. 8	32. 2 31. 2 11. 6 5. 6 17. 2	21. 2 32. 3	4. 1	
Slaughtering and meat packing. Soap. Tobacco manufactures.	100. 0 100. 0 100. 0		4. 7 0. 5 5. 1 2. 4 10. 8	12. 8 3. 7 9. 0 5. 2 10. 1	10. 6 9. 2 12. 6 6. 5 9. 6	16. 5 17. 5 9. 9 2. 3 8. 5	6. 2 32. 3 13. 2 26. 1 16. 6	10. 3 28. 7 22. 3 20. 5 13. 8	9. 7 8. 1 27. 9	29.1
Typewriters and supplies. Wire. Woolen, worsted, and felt goods, and wool hats All other industries.	100. 0 100. 0		1. 4 0. 1 0. 2 5. 6	3. 4 1. 2 1. 2 13. 3	2. 7 3. 6 15. 7	3.4 4.2 7.5 13.7	6. 0 26. 9 21. 8 18. 9	7. 1 28. 4 24. 2 13. 9	11.3 39.2 23.9 10.8	17.1 64.7 17.5 8.2

1 Less than one-tenth of 1 per cent.

Of the 44,935 establishments reported for all industries, 10.4 per cent employed no wage earners: 46.2 per cent, from 1 to 5; 23.4 per cent, 6 to 20; and 11.3 per cent, 21 to 50. The most numerous single group consists of the 20,799 establishments employing from 1 to 5 wage earners, and the next of the 10,524 establishments employing from 6 to 20 wage earners. There were 585 establishments that employed over 250 wage earners; 58 of these employed over 1,000, of which 4 each were engaged in the foundry and machine-shop and printing and publishing industries, and tobacco manufactures, and 3 each in the automobile, carpet and rug, cotton-goods, hosiery and knit-goods, and steel works and rolling-mill industries.

Of the total number of wage earners, 33.6 per cent were in establishments employing over 250 wage earners. The single group having the largest number of wage earners was the group comprising the establishments employing from 101 to 250. This group employed 189,485 wage earners, or 18.9 per cent of the total number. In 21 of the 58 industries listed separately in the table, establishments employing more than 250 wage earners reported more than one-half of the total number employed in each industry. In 11 of these industries, establishments employing over 500 wage earners reported more than one-half of the total number, while in 7, establishments employing over 1,000 wage earners reported more than one-half of the total. The highest proportion (83.9 per cent)

of wage earners employed by establishments reporting an average of more than 1,000 was in the manufacture of carpets and rugs.

Expenses.—As stated in the Introduction, the census does not purport to furnish figures that can be used for determining the cost of manufacture and profits. Facts of interest can, however, be brought out concerning the relative importance of the different classes of expense which make up the total. The first table on the following page shows, in percentages, for 1909, the distribution of expenses among the classes indicated, for all industries combined and for certain important industries separately. The figures on which the percentages are based appear in Table II, page 766.

This table shows that, for all industries combined, 62.2 per cent of the total expenses were incurred for materials, 24.9 per cent for services—that is, salaries and wages—and 12.9 per cent for other purposes. As would be expected, these proportions vary greatly in the different industries. The largest proportions shown for the various classes of expenses in the industries presented separately are as follows: For salaries, 17.7 per cent, in printing and publishing; for wages, 45.1 per cent, in the steam-railroad repair shops; for materials, 92.6 per cent, in the flour mills and gristmills; and for miscellaneous expenses (which in this case include internal-revenue taxes), 50.4 per cent, in the breweries.

	PER CI		TOTAL E	XPENSES		PER CE		OTAL EX	OTAL EXPENSES TED.	
INDUSTRY.	Sala- ries.	Wages.	Ma- terials.	Miscel- laneous ex- penses.	INDUSTRY.		Wages.	Ma- terials.	Miscel- laneous ex- penses.	
All industries.  Agricultural implements.  Artificial flowers and feathers and plumes.  Autiomobiles, including bodies and parts.  Boots and shoes, including out stock and findings.  Boxes, fancy and paper.  Brass and bronze products.  Bread and other bakery products.  Butter, cheese, and condensed milk.  Canning and preserving.  Carpets and rugs, other than rag.  Carriages and wagons and materials.  Cars and general shop construction and repairs by steam-railroad companies.  Chemicals.  Clothing, men's, including shirts.  Clothing, women's.  Coffee and spice, roasting and grinding.  Confectionery.  Copper, tin, and sheet-iron products.  Cotton goods, including cotton small wares.  Electrical machinery, apparatus, and supplies.  Flour-mill and gristmill products.  Food preparations.  Foundry and machine-shop products.  Furnishing goods, men's  Furniture and refrigerators.  Gas, illuminating and heating.  Gloves and mittens, leather.	8. 3 6 5. 9 5. 0 3 5. 6 4 5. 7 5. 4 5 6 6 6 0 3 3 2 2 9 . 3 5 1. 8 1 9 . 9 0 7 7 . 5 8 1 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 . 4 10 .	18. 7 26. 7 19. 0 25. 6 23. 8 33. 9 18. 4 4. 1 15. 1 27. 1 45. 1 22. 7 4. 8 13. 3 24. 3 24. 3 24. 3 24. 3 25. 6 26. 8 27 25. 6 28. 8 30. 4 16. 3 21. 2 22. 1	62. 2 52. 3 67. 4 54. 5 48. 6 66. 3 69. 8 91. 9 69. 0 61. 4 71. 7 56. 2 61. 3 62. 6 63. 3 64. 0 56. 3 64. 0 56. 3 64. 0 56. 3 62. 6 63. 6 64. 0 56. 6 64. 0 65. 3 64. 0 66. 3 65. 3 67. 6 66. 3 67. 6 68. 9 68. 9	12.3 8.9 11.5 10.1 8.9 3.4 19.6 13.6 12.6 10.5 14.1 22.0	Hats, fur-felt. Hosiery and knit goods. Iron and steel, blast furnaces. Iron and steel, steel works and rolling mills Jewelry. Leather goods. Leather, tanned, curried, and finished. Liquors, malt. Lumber and timber products. Malt. Marble and stone work. Millinery and lace goods. Musical instruments, planos and organs and materials. Oil, linseed. Paint and varnish. Paper and wood pulp. Paper goods, not elsewhere specified. Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing. Shipbuilding, including boat building. Slik and silk goods, including throwsters. Slaughtering and meat packing. Soap. Tobacco manufactures. Typewriters and supplies. Wire. Woolen, worsted, and felt goods, and wool hats. All other industries.	1.7 3.7 7.0 6.7 8.0 4.3 2.1 6.5 7.2 6.1 3.4 9.7 14.3 10.0 17.7 5.6 6.3 1.4 4.1 1.3 2.1	20. 8 42. 5 8. 1 19. 4		19.7 5.6 7.8	

Engines and power.—The following table shows, for all industries combined, the number of engines or other motors, according to their character, employed in generating power (including electric motors operated by purchased current), and their total horsepower at the censuses of 1909, 1904, and 1899. It also shows separately in the lower part of the table the number and horsepower of electric motors, including those operated by current generated in the manufacturing establishments.

POWER.	NUMBER OF ENGINES OR MOTORS.			Horsepower.				PER CENT DISTRIBUTION OF HORSEPOWER.		
FOWER.	1909	1904	1899 1	1909	1904	1899 1	1909	1904	1899	
Primary power, total	67, 137	19, 032	19,699	1, 997, 662	1, 516, 592	1, 099, 931	100.0	100.0	100.0	
Owned	21,239	19,032	19,699	1,579,977	1,345,697	1,017,392	79.1	88.7	92. 5	
Steam	12,538 4,656 3,789 256	12, 215 2, 928 3, 629 260	13,346 1,944 4,409 (²)	1,080,877 99,899 394,221 1,397 3,583	850, 497 44, 288 445, 197 937 4, 778	659,702 16,221 335,411 ( <sup>2</sup> ) 6,058	54. 1 5. 0 19. 7 0. 1 0. 2	56. 1 2. 9 29. 4 0. 1 0. 3	60.0 1.5 30.5 (2) 0.6	
Rented	45,898	(2)	(2)	417,685	170,895	82,539	20.9	11.3	7.5	
Electric. Other.		(2)	(2)	389, 945 27, 740	95,284 75,611	47,768 34,771	19.5 1.4	6.3 5.0	4.3 3.2	
Electric motors.	66,979	8,422	2,323	689,976	222,111	77,598	100.0	100.0	100.0	
Run by current generated by establishment. Run by rented power.	21,081 45,898	8,422 (2)	2,323 (²)	300,031 389,945	126,827 95,284	29,830 47,768	43.5 56.5	57. 1 42. 9	38. 4 61. 6	

 $<sup>^{1}</sup>$  Includes the neighborhood industries and hand trades, omitted in 1904 and 1909.

2 Not reported.

This table indicates that the total primary power increased 481,070 horsepower, or 31.7 per cent, from 1904 to 1909, and 416,661 horsepower, or 37.9 per cent, from 1899 to 1904. The greater part of the increase for the more recent period was in steam and rented electric power. In 1909, as in 1904 and 1899, steam power formed the major part of the primary power, but notwithstanding an increase of 421,175 horsepower during the decade the proportion which such power formed of the total primary power decreased from 60 per cent in

1899 to 56.1 per cent in 1904 and 54.1 per cent in 1909. The more general use of gas engines in recent years is shown by the fact that 4,656 such engines, with an indicated capacity of 99,899 horsepower, were reported in 1909, as against 2,928 engines, with 44,288 horsepower, in 1904 and 1,944 engines, with 16,221 horsepower, in 1899. The figures also show that the practice of renting electric power is increasing rapidly, the horsepower having increased from 95,284 in 1904 to 389,955 in 1909, and 19.5 per cent of the total primary

power having been of this character in 1909, as compared with 6.3 per cent in 1904 and 4.3 per cent in 1899. This condition was due in great measure to the utilization of the electrical energy developed at Niagara Falls, by the establishments located within the considerable area for which this current is made available by transmission.

The use of electric motors for the purpose of applying the power generated within the establishments is shown also to be rapidly becoming more common, the horsepower of such motors having increased from 29,830 in 1899 to 126,827 in 1904 and 300,031 in 1909.

Fuel.—Closely related to the question of kind of power employed is that of the fuel consumed in generating this power or otherwise used as material in the manufacturing processes.

The following table shows the quantity of each kind of fuel used in 1909 for all industries combined and for certain selected industries:

INDUSTRY.	Anthracite coal (tons).	Bituminous coal (tons).	Coke (tons).	Wood (cords).	Oil, including gasoline (barrels).	Gas (1,000 feet)
All industries.	4, 021, 671	7, 687, 039	2, 644, 148	306, 593	3,995,260	5, 129, 04
Artificial flowers and feathers and plumes	5,651	58,963	10,745	1,595	43, 191	1
Agricultural implements. Artificial flowers and feathers and plumes. Automobiles, including bodies and parts. Boots and shoes, including cut stock and findings. Boxes, fancy and paper.	1,294 5,046 22,552 7,065	33 33,557 13,103 5,188	98 5, 207	11 2 52 39	4,590 135 162	27, 910 12, 84 70, 730 23, 063 80, 323
Bread and other bakery products.	24, 198	34,580	6,307	1,063	13,915	34,196
Brass and bronze products. Bread and other bakery products. Butter, cheese, and condensed milk. Canning and proserving. Carpets and rugs, other than rag.	26,979	10,378 99,204 34,934 100,693	30,983 59 727	11,281 33,808 693 1	194 1,236 2,134 16	298,584 13,266 21,383
Cars and general shop construction and repairs by steam-railroad companies	5,705	28, 110	301	1,123	2,087	
Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad companies Chemicals Clothing, men's, including shirts Clothing, women's.  Coffee and spice reasting and grinding	89,602 366,505 29,108 14,120	183,584 105,056 6,546 1,886	176 3,514 799 3	120 54 383 28	25, 222 6, 872 350 407	22,511 1,610 229,978 380,352 271,092
Confectionery. Conner, tin and sheet iron products	32,307 40,063	7,491 9,728	1		3	13,968
Coffee and spice, roasting and grinding Confectionery Copper, tin, and sheet-iron products. Cordage and twine and jute and linen goods Cotton goods, including cotton small wares.	21,497 26,748	40,518 1	1,199 3,345	19 228	40 57,256	30, 684 78, 198
Electrical machinary enparatus and small wares.	39,624	32,532 85,025	• • • • • • • • • • • • • • • • • • • •	13	43	377 3,953
Electrical machinery, apparatus, and supplies Flour-mill and gristmill products Food preparations. Foundry and machine-shop products Fur goods.	44,898 7,515	139,883	5,303	36	34,605	80,966
Foundry and machine-shop products.	13,600 137,241	93,485   25,130	60 152	1,370 1	7,372	630, 395 29, 951
Furnishing goods may's	1,607	252,022 952	168,607 13	9,731 8	39,487	29,951 224,142 10,753
Furnishing goods, men's Furniture and refrigerators Gas and electric fixtures and lamps and reflectors Gas, illuminating and heating Gloves and mittens, leather	9,118 22,462	6,064			1,794	
Gas, illuminating and heating.	6,942	73,829 4,782	5,300 864	$2,395 \\ 17$	1,794 233 302	27,695 31,404 26,106
Hats, fur-felt.	485,900 1,382	832,970 3,474	119,602	120 127	3,430,773 112	8,983
Horizon and levil and	4,465	7,790 139,576		9		-
ITON and stool stool sycological and and the stool sycological and the	36,435 1,317	74,586	265 2,155,893	15 946	220	5,525 18,373
Jewelry.	9, 106 288	769,404 250	32,678	6,015	71,464	831,417 26,308
Leather goods Leather, tanned, curried, and finished Liquors, malt Lumber and timber products Malt	2,442	3,201	1	39	2,391	22,486
Lumber and timber products.	25,327 227,666	78,802 229,195	30 614	59 35	248	19, 430 73, 001
Math	26,829 35,676	82, 258 12, 931	1,526 176	5,551	2,998	41, 268
Marble and stone work Millinery and lace goods. Musical instruments, pianos and organs and materials. Oil, linseed. Paint and varnish	24,461	20,511	738	39	-	2,861
Musical Instruments, pianos and organs and materials.	4,562 23,062	340 26, 120	13 1,338	6 83	1,192 4 19	25,895 49,098
Paint and varnish.	4,000 37,408	20,684 23,408	4,518	48 11		4,673
Paper and wood pulp Paper goods, not elsewhere specified. Patent medicines and compounds and druggists' preparations. Photographic apparatus and materials. Printing and publishing.	173,387	872,378	7,010		331	8,634
Patent medicines and compounds and druggists' preparations.  Photographic apparatus and materials	21,534 20,072	2,508 5,266	40	2,775	°176 65	5,576
Printing and publishing.	2,268 75,871	39,212	797	106	18	16,825 7,382
Shipbuilding, including boat building Slik and silk goods, including throwsters. Slaughtering and meat packing	6 247	20,814 30,881	244	629	1,840	235, 216
Slaughtering and meat packing	16, 140 71, 124 22, 441	20.357	3,601	272	1,626 114	$3,782 \\ 36,591$
Tobacco manufactures	22, 441 11, 818	83,556 83,609	152 80	1,328 24	566	13,473 2,049
	6,091	2,754	31	136	55	25,756
WOODEN Worstad and folt goods and a	18,356	10,066 23,880 99,821	575 7,059	2 50	2,880 4,891	12,068
All other industries.	30,972 1,410,108	2,579,181	70, 283	153 223,936	18 231,403	889 954, 898
Note.—In addition, there were 7.165 tone of other						

Note.—In addition, there were 7,165 tons of other varieties of fuel reported.

## SUPPLEMENTARY DATA REGARDING IMPORTANT INDUSTRIES.

(With statistics for laundries and custom sawmills and gristmills.)

For certain industries the Census Bureau collects. by means of special schedules, details regarding the quantity and cost of materials and the quantity and value of products and other information for securing which no provision is made on the general schedule. Certain data of this character for 28 important industries in New York are here presented.

Printing and publishing.—Though the printing and publishing industry in New York as a whole shows considerable growth during the last five years when measured by the financial statistics, the growth in the newspaper and periodical branch has been slight, neither the number of publications nor the aggregate circulation showing any considerable increase.

The following table shows the number of the different classes of newspapers and periodicals published in the state in 1909, 1904, and 1899, together with the aggregate circulation per issue for each class:

PERIOD OF ISSUE.	NUMBER OF PUBLICATIONS.			AGGREGATE	CIRCULATION	PER ISSUE.
	1909	1904	1899	1909	1904	1899
TotalDailySunday.	1,953 231 48	1,933 217 44	1,526 207 49	43, 953, 617 5, 253, 521 2, 957, 727	42, 640, 395 4, 573, 640 3, 061, 565	30, 216, 095 3, 896, 967 (1)
Semiweekly and tri- weekly. Weekly. Monthly. Quarterly. All other classes.	56 975 521 54 68	63 981 521 53 54	60 872 272 35 31	250, 403 6, 756, 243 25, 635, 615 2, 437, 289 662, 819	362,797 5,336,435 28,217,126 909,317 179,515	607,042 6,997,099 15,277,062 2,126,625 1,311,300

1 Included in circulation of dailies.

New York ranks first among the states in the number of newspapers and periodicals published as well as in the circulation of such publications. The number of publications increased 20, or 1 per cent, from 1904 to 1909, and 407, or 26.7 per cent, from 1899 to 1904, while the aggregate circulation increased 1,313,222, or 3.1 per cent, during the more recent period, and 12,424,300, or 41.1 per cent, during the earlier period. From 1904 to 1909 the number of each class of publications increased, with the exception of the semiweeklies and triweeklies, and the weeklies, which decreased, and of the monthlies, the number of which was the same in both years. There was a decrease of 112,394 in the circulation of the semiweeklies and triweeklies and of 2,581,511 in that of the monthlies, while the circulation of the weeklies shows an increase. The Sunday publications show a decrease of 103,838 in circulation, although there was an increase of 4 in the number of such publications. The largest increase in number shown for any class of publications is that of 14 for the dailies, while the largest increase in circulation, 1,527,972, was in that of the quarterly publications. Of the 231 dailies, in 1909, 84, with an aggregate circulation of 2,168,690, were morning papers.

The following table shows the number and circulation of the different classes of publications in English and in foreign languages, respectively, for 1909 and 1904:

		TOTAL.		IN	IN ENGLISH.		IN FOREIGN LANGUAGES.		
PERIOD OF ISSUE.	Cen- sus.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circulation per issue.	Num- ber.	Aggregate circula- tion per issue.		
Total	1909	1,953	43,953,617	1,753	41, 656, 507	200	2, 297, 110		
	1904	1,933	42,640,395	1,764	40, 520, 198	169	2, 120, 197		
Daily and Sunday.	1909	279	8, 211, 248	228	6,858,818	51	1,352,430		
	1904	261	7, 635, 205	221	6,737,085	40	898,120		
Semiweekly and triweekly.	1909	56	250, 403	45	206, 203	11	44, 200		
	1904	63	362, 797	48	326, 412	15	36, 385		
Weekly	1909	975	6, 756, <b>24</b> 3	881	6,338,749	94	417, 494		
	1904	981	5, <b>33</b> 6, <b>4</b> 35	910	4,955,985	71	380, 450		
Monthly	1909	521	25, 635, 615	486	25, 251, 499	35	384,116		
	1904	521	28, 217, 126	492	27, 984, 084	29	233,042		
Quarterly	1909	54	2, 437, 289	52	2,424,789	2	12,500		
	1904	53	909, 317	48	365,817	5	543,500		
All other	1909 1904	68 54	662,819 179,515	61 45	576,449 150,815	7 9	86,370 28,700		

In 1909 as well as in 1904 the largest class of publications in foreign languages consisted of the weeklies, but the daily and Sunday papers had the largest circulation during both years. With the exception of quarterlies, each class of the publications in foreign languages increased in circulation from 1904 to 1909.

The following tabular statement distributes the publications in foreign languages in 1909 according to the language in which printed:

		NUMI	BER OF I	UBLICAT	ions.	
LANGUAGE.	All classes.	Daily and Sun- day publi- cations.	Semi- week- lies and tri- week- lies.	Week- lies.	Month- lies.	All other classes.
Total  German  Italian  Yiddish  German and English  Polish  Spanish  Swedish  Bohemian  Croatian  French  Hungarian  Rutsian  Ruthenian  Spanish and English  Syrian  Danish  All other	12 12 11 6 4 4 4 4 3 3 3 3	51 21 7 7 3 3	11 3 	94 23 19 9 5 5 5 1 1 2 2 7 11	35 10 1 2 6 8 1	9 13 21 31 81 41

¹ Two semimonthlies and 1 published every two weeks.
² Published every two weeks.
² Published every two weeks.
⁵ Includes 1 each in Arabic, Greek, and Slovenic.
⁶ Includes 1 each in Arabic, Chinese, and Slovak.
² Includes 1 each in Armenian, Chinese, Esthonian, Finnish, Dutch, Irish and English, Japanese and English, Norwegian, Servian, Slovak, and Welsh.
⁶ Includes 1 in German, French, and English; ¹ in German, French, Spanish, and English; and 1 in Spanish and Portuguese.
ց Includes 1 published every two weeks in Russian and English, and 1 semi-annual in German, French, Spanish, and English.

In 1909 a total of 1,080 publications, with an aggregate circulation of 10,116,760 copies per issue, were devoted to politics and family news; 135, with a circulation of 4,037,905, were religious in character; and 112, with a circulation of 12,664,213, were devoted to general literature. The circulation for 1909 of the first class increased 56.8 per cent and that of the last class shows but a slight increase over that reported for 1904, while the circulation of the second class in 1909 was more than two and one-half times that reported for 1904.

Textiles.—The relative importance of the principal textile industries of New York, as measured by value of products, is shown in the following table, which presents the total value of products reported for each industry at the last three censuses:

INDUSTRY.	VALUE OF PRODUCTS.					
MODERI.	1909	1899				
Total	\$185,780,000 67,130,000	\$142,422,000 46,320,000	\$107,612,000 36,028,000			
Carpets and rugs, other than rag Woolen, worsted, and felt goods, and	26,519,000 25,606,000	20, 181, 000 19, 404, 000	12,706,000 15,029,000			
wool hats	23, 739, 000	19,477,000	15,784,000			
wares Cordage and twine and jute and linen	20, 352, 000	13,434,000	10,788,000			
goods Hats, fur-felt	12,215,000 10,219,000	15,866,000 7,740,000	11,675,000 5,602,000			

The progress of the textile industries is shown by the increase in the number of spindles, looms, knitting machines, and other equipment. The following table shows the number of the principal machines used in four important textile industries combined and in each of those industries separately in 1909, 1904, and 1899:

MACHINE.	Cen- sus.	Total.	Cotton goods, including cotton small wares.	Woolen, worsted, and felt goods, and wool hats.	Hosiery and knit goods.	Silk and silk goods, including throw- sters.
Producing spindles	1909 1904 1899	1,395,482 1,228,699 1,127,149	778,036 704,634 720,268	154, 359 177, 487 152, 369	303,528 225,237 191,026	159, 559 121, 341 63, 486
Looms	1909 1904 1899	24,698 23,246 23,038	14,088 13,358 14,737	3,035 2,899 3,033		7, 575 6, 989 5, 268
Knitting machines	1909 1904 1899	15,047 12,666 11,666			15,047 12,666 11,666	
Woolen cards (sets)	1909 1904 1899	821 959 1,147		364 452 473	457 507 674	
Wool-combing ma- chines.	1909 1904 1899	89 62 66		89 62 66		

The total number of producing spindles reported for the four industries covered by the table shows an increase from 1904 to 1909 of 166,783, or 13.6 per cent; that of looms, an increase of 1,452, or 6.2 per cent; that of knitting machines, an increase of 2,381, or 18.8 per cent; and that of wool-combing machines, an increase of 27, or 43.5 per cent. The number of sets of woolen cards decreased 138, or 14.4 per cent. The relative

increases in the number of spindles, looms, and knitting machines were much greater than the gains shown for the previous five-year period, 1899-1904, which were 9 per cent, nine-tenths of 1 per cent, and 8.6 per cent, respectively. During the period from 1904 to 1909 the number of spindles used in the cotton mills increased 73,402, or 10.4 per cent, the number in the hosiery and knitting mills, 78,291, or 34.8 per cent, and the number in the silk mills, 38,218, or 31.5 per cent, while the number used in the woolen and worsted mills decreased 23,128, or 13 per cent. During the preceding five-year period, 1899-1904, the number in the cotton mills decreased, while the number in each of the other three classes of mills increased. Each of the three industries in the table for which looms are reported shows a larger number for 1909 than for 1904, the greatest relative increase being 8.4 per cent in the silk mills.

Hosiery and knit goods.—The manufacture of hosiery and knit goods as a factory industry in New York had its beginning in Cohoes in 1832, with the founding of a factory in which power was for the first time successfully used in the making of knit goods. (See History of Cohoes, by Masten, pp. 61, 62, and 77.) In 1849 there were only 3 knitting mills in the state, the value of their products amounting to only \$37,000, but in 1859 there were 22 mills in operation and the total production was valued at \$1,944,000. The industry has continued this rapid development, the value of products in 1909 being more than thirty-four times the value reported in 1859.

The following table shows the quantity and cost of the different materials used in 1909, 1904, and 1899:

MATERIAL.	1909	1904	1899
Total cost	\$38,677,371	\$28,210,100	\$20, 265, 993
Domestic— Pounds Cost. Foreign— Pounds.	\$3,779,496	23,841,021 \$2,747,412	24, 337, 305 \$1, 608, 014
Cost Wool: Foreign (in condition purchased)	\$234,871	629, 569 \$109, 954	J 41,000,014
Cost Domestic (in condition purchased)—	0400'400	439, 929 \$239, 281	710,834 \$396,246
Pounds	1,803,323 \$846,659	4,537,860 \$1,969,081	4,817,495 \$1,663,529
Cost. Shoddy: Pounds.	4,398,579 \$1,429,402	2,735,224 \$947,962	2,923,552 \$817,592
Yarns, not made in mill:	5,410,605 \$551,877	4, 444, 951 \$444, 165	2, 105, 354 \$199, 137
Pounds Cost Woolen	86, 676, 623 \$13, 824, 123	56,512,123 \$11,788,385	59, 112, 590 \$8, 517, 651
Pounds Cost. Worsted—	3,186,332 \$2,077,718	1,742,576 \$1,080,369	902, <b>2</b> 34 \$423, 411
Pounds. Cost. Merino— Pounds.	3, 232, 368 \$3, 078, 048	2,340,773 \$1,799,171	1,585,842 \$1,221,820
Cost. Silk and spun-silk— Pounds.	925,440 \$693,856	1,022,189 \$425,956	562,040 \$232,011
CostAll other yarns—	423,230 \$1,644,056	137,369 \$615,511	142,559 \$542,344
Cost	\$11,296 \$9,266 \$363,607	35, 124 \$30, 843	105, 782 \$102, 109
Fuel and rent of power. All other materials.	\$648,588 \$9,386,614	\$284,958 \$465,438 \$5,261,614	\$211,687 \$293,582 \$3,976,860

At each of the three censuses raw cotton and cotton yarn were by far the most important materials reported, both as respects quantity and as respects cost, with the exception that in 1899 the cost of the wool consumed was somewhat greater than that of the raw cotton. There was an increase of 10,194,463 pounds, or 41.7 per cent, in the quantity of raw cotton consumed and of \$1,157,001, or 40.5 per cent, in its cost, from 1904 to 1909, as compared with increases of 133,285 pounds, or one-half of 1 per cent, in quantity and \$1,189,352, or 71.3 per cent, in cost from 1899 to 1904. The very great increase in cost shown in 1904 as compared with 1899 was due chiefly to the higher prices of cotton prevailing in 1904. Cotton yarns show an increase of 30,164,500 pounds, or 53.4 per cent, in quantity and \$2,035,738, or 17.3 per cent, in cost for the period 1904-1909, while for the period 1899-1904 a decrease of 2,600,467 pounds, or 4.4 per cent, in quantity and an increase of \$3,270,734, or 38.4 per cent, in cost were reported. All other materials for which figures as to both quantity and cost are given show increases in both respects from 1904 to 1969, with the exception of foreign and domestic wool, and the yarns included under the head of "All other yarns," which decreased in both respects, and of merino yarn, which shows a decrease in quantity only. The gains in the quantity and cost of silk and spun-silk yarns are particularly noteworthy, as the quantity more than trebled and the cost very nearly trebled during the five years.

The quantity and value of the various products reported at the last three censuses were as follows:

PRODUCT.	1909	1904	1899
Total value	\$67, 130, 296	\$46,320,311	\$36,028,114
Hose:	074 000	****	100.000
Dozen pairs	251, 269	167,965	103,300
Value	\$493,041	\$286,712	\$234,652
Half hose:	104,418	65,732	56,972
Dozen pairs	\$146,144	\$113,950	\$93,547
ValueShirts and drawers:	\$140,144	<b>Q110</b> , 000	000,017
Merino-			
Dozens	1,162,148	1,171,123	1,779,339
Value	\$7,718,492	\$6,737,966	\$8,394,455
Cotton	′ ′		• •
Dozens	11, 238, 711	8,974,368	6,636,642
Value	\$29,577,805	\$24, 212, 845	\$17,006,721
All other—			
Dozens	74,063	204,993	804, 538
Value	\$914,211	\$1,535,884	\$2,880,118
Combination suits:			
Merino-	50.054	07 007	54, 153
Dozens	52,254	27, 297 \$313, 853	\$378, 258
Value	\$500,830	\$313,535	φο (O, Δυ
Cotton— Dozens	938, 554	655,324	288,079
Value	\$4,238,442	\$2,030,831	\$904,15
All other—	ψ <del>1</del> , 200, 112	42,000,001	4001,100
Dozens	(1)	9,934	13,31
Value	(1)	\$101,427	\$82,110
Gloves and mittens:	( )		
Dozen pairs	1,195,140	750,662	567, 720
Value	\$4,270,020	\$2,067,185	\$1,570,400
Value	,		1 = 1 00
Dozens	124,301	255,857	. 171,06
Value Cardigan jackets, sweaters, fancy jackets,	\$440,411	\$920,071	\$533,52
Cardigan jackets, sweaters, fancy jackets,			
etc.:	1 050 000	540,236	451,26
Dozens	1,656,336	\$4,780,750	\$2,564,71
Value	\$13,915,043	\$4,700,700	\$2,002,11
Cotton yarn: Pounds	2, 499, 483	902,834	211,00
Value		\$154,842	\$33,20
v atue	\$015,404	W101,012	1
All other products	\$4,396,403	\$3,063,995	\$1,352,25

<sup>1</sup> Included with "All other products," to avoid disclosure of individual operations.

From 1904 to 1909 there was a general increase in the quantity and the value of all products, with the exception of the shirts and drawers included under the head of "All other," and of hoods, scarfs, and nubias, which decreased in both respects, and of merino shirts and drawers, which decreased in quantity only. The output and the value of merino and "All other" shirts and drawers and of merino combination suits were less in 1904 than in 1899, and the output of "All other" combination suits also shows a decrease for that period. The most important products were cotton shirts and drawers, the value of which formed 44.1 per cent of the total value of products for the industry in 1909, 52.3 per cent in 1904, and 47.2 per cent in 1899. The largest increase in output from  $1904\ \mathrm{to}\ 1909$  was that of 2,264,343 dozens, or 25.2 per cent, in the quantity of cotton shirts and drawers, and the largest increase in value that of \$9,134,293, or 191.1 per cent, in the value of cardigan jackets, sweaters, fancy jackets, etc.

Silk and silk goods, including throwsters.—This industry had its beginning in the state in 1830, when the manufacture of dress trimmings was commenced in New York City. At the census of 1869, 14 establishments were reported, which employed 739 wage earners and manufactured products valued at \$1,826,000. In 1909 the manufacture of silk goods, with a value of products amounting to \$26,519,000, was second in importance among the textile industries in the state. The development during the decade 1899–1909 was remarkable, the value of products more than doubling.

The statement following shows the quantity and cost of the chief materials used in the industry, as reported for 1909, 1904, and 1899:

MATERIAL.	1909	1904	1899
Total cost	\$13,948,589	\$10,490,474	\$6,570,037
Raw— Pounds	1,817,329	1,006,793	914, 265
	\$7,092,171	\$3,934,433	\$3, 814, 768
Spun— Pounds Cost	315,622 \$759,710	249,896 \$734,099	263,200 \$562,322
Artificial— Pounds Cost Organzine and tram—	616, 439	289, 282	5,350
	\$1,309, 400	\$1, 039, 783	\$6,790
Pounds	335,003	603,623	197,781
	\$1,471,824	\$2,919,456	\$839,657
noils, etc.— Pounds. Cost Yarns, other than silk:	515,545	1 7,080	20,606
	\$326,691	\$28,475	\$88,813
Cotton— Pounds Cost	2,018,612	1, 197, 943	1,556,545
	\$757,470	\$401, 841	\$359,710
Mercerized cotton— Pounds Cost	483,627	101, 943	51,560
	\$359,315	\$74, 770	\$42,433
Woolen and worsted— Pounds	94,622	184,340	45,52
	\$114,829	\$191,816	\$36,64
Mohair— Pounds Cost	52,521	14,511	29,69
	\$47,408	\$15,264	\$28,77
All other— Pounds Cost	113,855	71,486	24,16
	\$170,491	\$30,959	\$14,36
Chemicals and dyestuffsFuel and rent of powerAll other materials	\$249,911	\$52,066 \$167,911 \$899,601	(2) \$96,28 \$679,47

<sup>1</sup> Does not include waste, noils, etc.

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

The cost of the materials used in the silk industry slightly more than doubled during the decade 1899-1909, that of silk in its various forms representing about four-fifths of the total at each census. Raw silk, which is by far the most important single item, as measured by cost, increased 810,536 pounds, or 80.5 per cent, in quantity, and \$3,157,738, or 80.3 per cent, in cost, from 1904 to 1909. The consumption of artificial silk, of which only a small amount was reported in 1899, more than doubled between 1904 and 1909, though the increase in cost was only 25.9 per cent. Organzine and tram purchased, on the other hand, show a marked falling off for the same period, the quantity and cost reported for 1909 being only a little more than half as great as for 1904. Among the materials other than silk, cotton yarns, especially mercerized yarns, show a very rapid increase for the period 1904-1909, while woolen and worsted yarns show a decided loss, amounting to 48.7 per cent in quantity and 40.1 per cent in cost.

The next table shows the quantity and value of the different products reported for 1909, 1904, and 1899:

PRODUCT,	1909	1904	1899
Total value. Broad silks (all silk and silk mixed):	\$26,518,821	\$20,181,212	\$12,706,246
Y ards. Value. Plain and fancy—	15,217,298 \$9,042,488	10,896,809 \$6,382,758	7,545,565 \$4,333,114
Yards Value Jacquard—	7,898,355 \$5,554,462	5,354,460 \$3,629,021	4,906,159 \$3,074,806
Yards Value Piece-dved—	434,690 \$394,466	1,266,680 \$842,948	169,836 \$134,258
Yards Value	6,884,253 \$3,093,560	4, 275, 669 \$1, 910, 789	2,469,570 \$1,124,050
Ribbons Laces, nets, veils, veilings, etc. Embroideries.	\$6,261,289 \$794,640	\$4,983,712 \$291,400	\$4,883,011 \$377,047
Braids and hindings	\$272,746 \$560,027 \$2,566,881	\$105,500 \$544,544 \$2,042,365	\$23,092 \$195,528 \$388,391
Ladies' dress trimmings. Millinery trimmings. Organzine and tram for sale:	\$946, 293 \$749, 785	\$967,143 \$703,742	\$389,510 \$231,000
PoundsValue	330,026 \$1,354,540	99, 866 \$420, 718	48,263 \$207,500
All other products	\$3,364,122 \$606,010	\$3,471,078 \$268,252	\$1,439,835 \$238,218

With the exception of Jacquard broad silks, ladies' dress trimmings, and the products included under the head of "All other products," the value of each class of products shown in the table increased from 1904 to 1909. The most pronounced decrease was in Jacquard silks, amounting to \$448,482, or 53.2 per cent, owing to the removal from the state of two establishments in which such fabrics were manufactured extensively in 1904. Ribbons, although the leading class of products next to broad silks in 1904 and 1909, have represented a smaller proportion of the total value of products at each succeeding census since 1899. The proportions which the value of broad silks, the class of products first in importance in 1909 and 1904, formed of the total for all products were 34.1 per cent in 1899, 31.6 per cent in 1904, and 34.1 per cent in 1909. Striking gains occurred during the decade in the production of organzine and tram for sale, both the quantity and the value of this class of products more than doubling

from 1899 to 1904, and both more than trebling from 1904 to 1909. The amount reported as received for contract work was but little more in 1904 than in 1899, but during the next five years it more than doubled. This item represents mainly the receipts for commission throwing.

In 1909 a total of 936,754 pounds of silk were thrown for other establishments under contract, of which 495,053 pounds were thrown into organzine and 441,701 pounds into tram. The corresponding figures for 1904 were 359,248 pounds and 345,830 pounds, respectively, representing a total of 705,078 pounds of silk thrown under contract in that year.

Carpets and rugs, other than rag.—The quantity and cost of the different materials and the quantity and value of the chief products reported for this industry in 1909, 1904, and 1899 are given in the following table:

MATERIAL OR PRODUCT.	1909	1904	1899
Materials used, total cost Wool, in condition purchased:	. \$13,315,172	\$11, 133, 063	\$7,681,097
Pounds	36,177,487	23, 552, 683	23, 297, 198
	\$6,256,326	\$4, 707, 215	\$3, 875, 638
Pounds	3,105,707	(1)	1,325,814
	\$277,281	(1)	\$99,978
Pounds. Cost. Woolen—	41, 498, 384 \$4, 806, 400	37,147,701 \$4,813,950	27,287,378 \$2,501,095
Pounds	564,924	4,239,395	1,594,801
	\$137,408	\$921,873	\$266,998
Pounds	1,638,596	1,653,638	281,830
Cost	\$779,688	\$800,865	\$113,538
Pounds. Cost. Linen—	6,599,109 \$1,141,669	4,801,611 \$879,580	3,617,216 \$443,351
Pounds	4,858,864	5,049,746	5,382,255
	\$866,837	\$819,971	\$732,307
Pounds	27,836,891	21,403,311	16, 411, 276
	\$1,880,798	\$1,391,661	\$944, 901
Chemicals and dyestuffs	\$417,770	\$468,372	\$384,835
Fuel and rent of power	\$309,335	\$224,235	\$113,706
All other materials.	\$1,248,060	\$919,291	\$705,845
Products, total value	\$25, 606, 262	\$19, 404, 133	\$15,029,218
Square yards. Value. Carpets—	26, 973, 631	22, 559, 873	21, 804, 155
	\$25, 477, 756	\$19, 194, 104	\$14, 825, 420
Square yards	17, 430, 969	19, 206, 368	16,038,562
	\$16, 177, 227	\$15, 766, 173	\$11,530,425
Square yards.	9,542,662	3,353,505	5,765,593
Value.	\$9,300,529	\$3,427,931	\$3,294,995
All other products	\$128,506	<b>\$</b> 210,029	\$203,798

<sup>1</sup> Included under "All other materials," to avoid disclosure of individual perations.

The chief material used in each of the three census years was wool, the cost of which formed 47 per cent of the total for all materials combined in 1909, 42.3 per cent in 1904, and 50.5 per cent in 1899. The quantity of wool used increased 12,624,804 pounds, or 53.6 per cent, from 1904 to 1909, and the cost \$1,549,111, or 32.9 per cent. Jute and other vegetable fiber yarns constituted the class second in importance, showing an increase for the five-year period 1904–1909 of 6,433,580 pounds, or 30.1 per cent, in quantity and \$489,137, or 35.1 per cent, in cost. The amount of woolen yarn purchased in 1909, however, was little more than one-eighth that reported for 1904, owing largely to the purchase of the fiber in the raw state instead of in yarn.

Carpets and rugs, taken together, show an increase for the period 1904–1909 of 4,413,758 square yards, or 19.6 per cent, in quantity and \$6,283,652, or 32.7 per cent, in value, and for the period 1899–1904 an increase of 755,718 square yards, or 3.5 per cent, in quantity and \$4,368,684, or 29.5 per cent, in value. In 1909 seamless rugs constituted 35.4 per cent of the total output of carpets and rugs, as compared with 14.9 per cent in 1904 and 26.4 per cent in 1899.

Axminster and moquette carpets formed the leading class of carpets manufactured in 1909, with tapestry Brussels, tapestry velvet, and Brussels following in the order named. In 1904 and 1899, however, tapestry Brussels was the leading variety.

Woolen, worsted, and felt goods, and wool hats.—The 64 establishments reported for this industry in 1909, classified according to their products of chief value, comprised 30 woolen mills, 15 worsted mills, 12 felt mills, and 7 wool-hat factories.

The quantity and cost of the different materials reported for 1909, 1904, and 1899 are given in the following table:

			-
MATERIAL.	1909	1904	1899
Total cost.	\$14,744,028	\$10,715,224	\$8,683,510
Wool, in condition purchased:			
Pounds	26,651,580	26, 056, 151	20,942,082
Cost	\$8,462,790	\$6,826,833	\$4,877,605
Domestic—			
Pounds	22, 362, 412	22, 456, 770	18,692,443
Cost	\$6,754,854	\$5,769,932	\$4,182,727
Foreign—	4 000 100	0 500 001	0.040.000
Pounds	4,289,168	3,599,381	2,249,639
Cost Equivalent in scoured condition,	\$1,707,936	\$1,056,901	\$694,878
pounds	15,858,034	15,610,370	11,830,350
Animal hair and fur:	10,000,004	10,010,370	11,000,000
Pounds.	3,588,381	1,537,450	837, 316
Cost	\$747, 128	\$203,612	\$48,772
Cost Tailors' clippings, rags, etc.:	Ψ. 2., 220	<b>\$200,012</b>	<b>V10,11</b>
Pounds	1,234,161	1,332,056	(1)
Cost	\$68,197	\$77,716	\$43,697
Cost	,	·	
Pounds	939,539	2,209,909	641,709
Cost	\$135,921	\$271,709	\$116, 107
Waste and noils of wool, mohair, etc.:			
Pounds	2,908,692	1,716,008	1,923,179
Cost	\$960,628	\$512,751	\$569,815
Cotton:	F00 000	1 000 455	1 000 700
Pounds	599,698 \$83,276	1,326,455 \$175,676	1,009,766 \$84,585
Cost Yarns, purchased:	\$65,210	\$110,010	ĐƠT, 00Đ
Pounds	2,829,606	1,594,097	3,465,476
Cost	\$1,718,630	\$595,487	\$1,208,732
Worsted-	Ψ1,110,000	\$550, 101	•=,===,
Pounds	1,412,237	318,244	626,031
Cost	\$1,227,155	\$237,531	\$541,901
Cotton—			· .
Pounds	990, 264	937,927	2,427,270
Cost	\$300,706	\$240,824	\$391,791
Silk and spun-silk—	40.040		10 150
Pounds	13,913	21,018	13, 173
Cost	\$49,493	\$61,627	\$51,217
All other—	413, 192	316,908	399,002
Pounds Cost.	\$141,276	\$55,505	\$223,823
Wool hat bodies and hats in the rough:	Ø141, 210	φυυ, υυυ	<i>\$220,020</i>
Dozens	16,057	(2)	2,676
Cost	\$47,616	(2) (2)	\$9,618
	\$11,010	'/	
Chemicals and dyestuffs	\$623,270	\$561,490	\$491,373
Fuel and rent of power and heat	\$370,969	\$285,388	\$201,066
All other materials	\$1,525,603	\$1,204,562	\$1,032,140

<sup>&</sup>lt;sup>1</sup> Not reported separately.

<sup>2</sup> Included with "All other materials," to avoid disclosure of individual operations.

The total quantity of all classes of wool purchased was 26,651,580 pounds in 1909, 26,056,151 pounds in 1904, and 20,942,082 pounds in 1899, an increase of 595,429 pounds, or 2.3 per cent, for the later five-year period, and 5,114,069 pounds, or 24.4 per cent, for the

earlier period. The cost of this material represented 57.4 per cent of the total cost reported for all materials in 1909, 63.7 per cent in 1904, and 56.2 per cent in 1899. Worsted yarns purchased show larger relative gains from 1904 to 1909 than any other class of materials, the quantity reported in 1909 being more than four times as great as in 1904, and the cost more than five times as great, while from 1899 to 1904 shoddy, mungo, and wool extract show the largest relative gain in quantity, and animal hair and fur the largest relative gain in value. For the five-year period 1904–1909 tailors' clippings, raw cotton, shoddy, and silk and spun-silk yarns all show a decrease in both quantity and cost, while domestic wool shows a decrease in quantity only.

The quantity and value of the chief products reported for the industry in 1909, 1904, and 1899 are shown in the following table:

PRODUCT.	1909	1904	1899
Total value	\$23, 739, 421	\$19,476,686	\$15,784,121
All-wool woven goods: Square yards	17, 243, 627	12, 459, 972	9,464,705
Value Wool cloths, doeskins, cassimeres, cheviots, etc.:	\$12, 830, 093	\$10, 532, 885	\$6, 558, 458
Souaré vards	1,762,748	4,427,304	2, 626, 599
Value	\$1, 450, 578	\$3,857,600	\$2,042,342
Square vards	6, 823, 860	3, 195, 395	3,132,310
Value Worsted dress goods, cashmeres, serges, etc.—	\$6, 420, 930	\$3,694,589	\$2,637,159
Square yards	5, 375, 780	3,857,323	740, 724
Value	\$2, 728, 242	\$2, 162, 435	\$368,314
Square vards	3, 281, 239	979,950	2,965,072
Value Cotton-mixed and cotton-warp goods: Square yards	\$2, 230, 343	\$818,261	\$1,510,643
Square yards	7, 065, 151	8,139,633	9,804,480 \$3,589,355
Value Worsted-filling dress goods—	\$2, 487, 564	\$3,081,060	\$3,009,000
Worsted-filling dress goods— Square yards Value All other—	3,376,396 \$1,056,731	1,518,326 \$540,078	4,914,479 \$1,700,998
Square yards	3,688,755	6,621,307	4,890,001
Value Felt goods:	<b>\$1,430,833</b>	\$2,540,982	\$1,888,357
Felt cloths, trimming and lining			
felts, felt skirtings, table covers,			ļ [
and saddle felts— . Square yards	2,892,196	1,129,082	941,056
Vålue Endless belts—	\$976,342	\$590,585	\$361,168
PoundsValue	1,881,047	11,100,579	1 626, 857
Value	\$1,989,988	\$1,101,743	\$617,881
All other	\$1,326,638	\$1,130,626	\$686,337
Dozens	133,678 \$1,185,298	136, 481	284, 494 \$1, 218, 498
Value Worsted yarn, for sale: Pounds	\$1,185,298	\$956,347	<b>ф1, 218, 498</b>
Pounds.	1, 237, 092	1,051,528	2 980, 510
Value Noils, for sale:	\$1, 184, 521	\$793, 285	\$701,166
PoundsValue	1,793,580	858,972	526,925
Value Waste, for sale:	\$531,897	\$261,055	\$165,567
Pounds	838,887	852,243	281,804
Value	\$145, 921	\$128,750	\$36,900
All other products	\$1,081,159	<b>\$</b> 900,350	\$1,848,791

<sup>1</sup> Square yards.

The output of all-wool woven goods reported in 1909 was 17,243,627 square yards, as compared with 12,459,972 square yards in 1904 and 9,464,705 square yards in 1899, the gain in 1909 as compared with 1904 being 4,783,655 square yards, or 38.4 per cent, and that in 1904 as compared with 1899 being 2,995,267 square yards, or 31.6 per cent. The very considerable gain in the output and value of worsted-filling dress goods between 1904 and 1909 was more than offset by a decline

<sup>&</sup>lt;sup>2</sup> Includes tops.

in the manufacture of other woven goods containing cotton. The output of felt cloth in 1909 was more than double that in 1904. The total value of the worsted yarms manufactured for sale was \$1,184,521 in 1909, as compared with \$793,285 in 1904 and \$701,166 in 1899. To the extent that the partly manufactured products, such as yarn, noils, and waste, were sold by the establishments producing them to other establishments in the state engaged in the woolen industry for use as materials in their manufacturing processes, the value of such materials represents a duplication in the total cost of materials and value of products for the industry.

Cotton goods, including cotton small wares.—The quantity and cost of the principal materials used in this industry and the quantity and value of the chief products reported for 1909, 1904, and 1899 are given in the following table:

MATERIAL OR PRODUCT.	1909	1904	1899
Materials used, total cost	\$11,726,489	\$8, 644, 726	\$5,718,295
PoundsCostCotton yarn:	68, 766, 704	51, 835, 100	52, 243, 049
	\$8, 088, 263	\$6, 190, 179	\$3, 743, 267
Pounds.	5,843,677	5,583,162	4, 297, 684
Cost.	\$1,472,313	\$1,363,786	\$1, 083, 604
Starch Chemicals and dyestuffs Fuel and rent of power All other materials	\$70, 581 \$150, 405 \$407, 128 \$1, 537, 799	\$33,094 \$105,294 \$330,299 \$622,074	\$27, 465 \$77, 884 \$228, 577
Products, total value	\$20, 351, 555	\$13,433,904	\$557, 498 \$10, 788, 003
Volue	86, 800, 075	70,321,095	80, 123, 110
	\$3, 537, 860	\$2,883,012	\$2, 829, 674
Cotton towels and toweling: Square yards. Value. All other woven goods:	1, 955, 625	1,255,460	(1)
	\$430, 393	\$178,687	(1)
Square yards	58, 313, 842	40,951,177	50,788,768
	\$7, 095, 170	\$4,317,437	\$3,515,851
Pounds. Value. Cotton waste:	31, 765, 481 \$6, 745, 518	24, 943, 995 \$5, 102, 181	17,922,997 \$2,782,165
PoundsValue	7, 170, 930	5, 396, 761	6,554,045
	\$250, 037	\$177, 890	\$126,419
All other products	\$2, 292, 577	\$774,697	\$1,533,894

Not reported separately.

The quantity of raw cotton used increased 16,931,604 pounds, or 32.7 per cent, from 1904 to 1909, although from 1899 to 1904 it decreased 407,949 pounds, or eight-tenths of 1 per cent. The cost of this material, however, increased more rapidly from 1899 to 1904 than it did from 1904 to 1909. The cost of cotton yarn, the material next in importance, increased from census to census, but much less rapidly than that of raw cotton. The cost of all the other classes of materials shown in the table likewise increased during both five-year periods.

On the basis of value, the products included under the head of "All other woven goods," which consisted mainly of brown or bleached sheetings and shirtings, corduroy, cotton velvet and plush, lace and lace curtains, mosquito and other netting, and twills and sateens, constituted the most important class of products in 1909 and 1899, while in 1904 yarns for sale formed the leading class. The output of plain cloth decreased between 1899 and 1904, but this decrease was more than counterbalanced by an increase during the next five years. The value of each class of products shown separately in the table, however, increased during both five-year periods.

To the extent that cotton yarn and waste made in the state were sold by the establishments producing them to other establishments in New York engaged in the cotton-goods industry for use as material in their manufacturing processes, their value represents a duplication in both the total cost of materials and the total value of products for the state.

Fur-felt hats.—This industry includes the manufacture of derbies and soft felt hats, and of felt hats for women's wear, from rabbit, coney, and nutria fur. The quantity and cost of materials used and the number and value of fur-felt hats manufactured in 1909, 1904, and 1899 are shown in the following table:

MATERIAL OR PRODUCT.	1909	1904	1899
Materials used, total cost Hatters' fur:	\$5,406,265	\$3,478,454	\$2,607,454
Pounds. Cost.  Fur-felt hat bodies and hats in the rough:	1,883,207	1,563,680	1, 281, 452
	\$1,860,052	\$1,265,877	\$1, 163, 340
Dozens	194, 268	92,984	24,620
Cost	\$1, 250, 824	\$627,040	\$171,660
Chemicals and dyestuffs	\$100,407	\$160,305	\$117,681
	\$2,194,982	\$1,425,232	\$1,154,773
Products, total value	\$10, 218, 660	\$7,739,774	\$5, 602, 458
Dozens	776, 258	631,374	226,061
Value	\$9, 465, 282	\$6,852,797	\$5,052,570
All other products	<b>\$</b> 753,378	\$886,977	\$549,888

In 1909 the cost of hat bodies and hats in the rough was over two-thirds as great as that of hatters' fur, having made the remarkable increase from \$171,660 to \$1,250,824 during the last decade.

The number of hats manufactured increased 144,884 dozens, or 22.9 per cent, from 1904 to 1909, and 405,313 dozens, or 179.3 per cent, from 1899 to 1904. The increase in the value of the hats was \$2,612,485, or 38.1 per cent, for the later five-year period, and \$1,800,227, or 35.6 per cent, for the earlier five-year period. The figures for 1909 represent 26 per cent of the number and 21.8 per cent of the value of all furfelt hats produced in the United States in that year, the corresponding proportions in 1904 being 24.2 per cent and 20 per cent, respectively. In addition to those shown in the above table, fur-felt hats to the value of \$433,391 were made in 18 establishments engaged primarily in the manufacture of other kinds of hats, such as wool and straw.

Slaughtering and meat packing.—The first table on the following page gives the quantity and cost of the different materials used in the industry during the census years 1909, 1904, and 1899.

There were 189,731, or 39.6 per cent, more beeves slaughtered in 1909 than in 1904; 83,370, or 28.4 per cent, more calves; 381,084, or 24.8 per cent, more sheep; and 178,911, or 11 per cent, more hogs. The cost re-

ported for each class of animals also increased during the same period, and even more rapidly than the number. The cost of dressed meat purchased, however, which more than doubled between 1904 and 1909, shows a higher rate of increase for that period than any other item presented in the table.

MATERIAL.	1909	1904	1899
Total cost	\$110, 168, 234	\$66,777,802	\$51, 173, 032
Beeves slaughtered: Number	668, 447	478,716	378, 833
CostCalves slaughtered:	\$47,746,152	\$29,799,375	\$21,492,495
Number	377, 121 \$4, 406, 391	293, 751 \$2,611,331	277,016 \$2,203,940
Sheep slaughtered: Number	1,918,721	1,537,637	1,487,157
Cost	\$10,437,800	\$7,436,390	\$5,975,165
Number	1,802,669 \$23,802,670	1,623,758 \$14,124,703	1,701,096 \$12,566,633
Dressed meat, purchased	\$14, 156, 721 \$507, 208 \$9, 111, 292	\$6,786,824 \$288,299 \$5,730,880	\$5,395,265 \$168,307 \$3,371,227

The following table shows the products reported for this industry at the last three censuses:

PRODUCT.	1909	1904	1899
Total value	\$127, 130, 051	\$75,549,917	\$58, 403, 452
Beef, fresh:	,,	. , ,	
Pounds	429,981,714	310,605,538	252, 508, 996
Value	\$41,428,480	\$26, 119, 579	\$20,045,478
Value Beef, salted or cured:	' '		
Pounds	26, 460, 602	15, 145, 733	10,659,190
Value	\$3,085,410	\$759, 210	<b>\$</b> 796,594
Veal, fresh:			
Pounds	36,610,306	26, 400, 486	25, 179, 357
Value	\$4,316,843	\$2,605,948	\$2,404,942
Mutton, fresh:			
Pounds	80,774,979	63, 435, 207	61,858,172
Value	\$9,539,554	\$5,991,233	<b>\$5</b> , 163, 001
Pork, fresh:			
Pounds	123, 540, 054	123, 177, 559	107,996,721
Value	<b>\$</b> 12,665,175	\$9,130,670	\$7,340,461
Pork, salted or cured:			
Pounds	134, 425, 208	106, 495, 914	122, 217, 119
Value	\$17,804,064	\$10,712,616	\$9,874,335
Sausage, fresh or cured	\$6,461,809	\$3,359,825	\$2,195,581
All other fresh meat:			
Pounds	6,983,008	2,828,915	615,500
Value	\$427,106	\$237,168	\$61,430
Lard:			
Pounds	47,042,820	35,098,711	31,522,702
Value	\$5,814,101	\$2,413,755	\$2,044,069
Tallow, oleo stock, and stearin:			
Value Tallow, oleo stock, and stearin: Pounds	51,948,253	(1) (1)	(1)
Value	\$4,472,789	(1)	(1)
Oleo oil:		0 8800 010	* 440 000
Gallons	3,149,003	3,578,246	1,660,999
Value Fertilizers and fertilizer materials:	\$2,692,932	\$2,035,419	\$954,06
Fertilizers and fertilizer materials:		*****	F 001
Tons	16,928	10,740	5,60
Value	\$435,900	\$233, 562	\$104,532
Hides:	000 #00	007 004	too 00.
Number	899,790	607,034	590,824
Pounds	49, 577, 570	36,892,215	26, 522, 24 \$2, 475, 99
Value	\$7,105,591	\$3,748,693	\$2,410,996
Sheep pelts:	1 010 005	20 000 552	(1)
Number	1,913,895	22,069,553	(1)
Value	\$1,389,474	\$1,101,878	(4)
Wool:	C COE 170	E 107 007	2,625,676
Pounds	6,605,170	5,187,937	\$787,26
Value.	\$2,249,241	\$1,997,334	\$101,20
All other products, including amount		-	
received for custom or contract	07 041 700	es 100 007	Q4 15E 70
work	\$7,241,582	\$5,103,027	\$4,155,70

Figures not available.
 Includes pelts purchased for wool pulling.

With the exception of the quantity of oleo oil and the number of sheep pelts, the output of each of the different products shown separately increased both in quantity and in value from 1904 to 1909, but the percentages of increase in the value of meat products were considerably larger than those in quantity owing to the generally higher prices that prevailed in 1909.

The increase in quantity, however, which is not influenced by such external conditions as changing prices, indicates more accurately the actual growth of the industry

The largest relative increase in quantity was that of 146.8 per cent for the products included under the head of "All other fresh meat," while the largest relative increase in value was that of 306.4 per cent for salted and cured beef. The output of fresh beef increased 119,376,176 pounds, or 38.4 per cent, from 1904 to 1909; that of salted and cured beef, 11,314,869 pounds, or 74.7 per cent; that of fresh veal, 10,209,820 pounds, or 38.7 per cent; that of fresh mutton, 17,339,772 pounds, or 27.3 per cent; that of fresh pork, 362,495 pounds, or three-tenths of 1 per cent; and that of salted and cured pork, 27,929,294 pounds, or 26.2 per cent. The total output of these products increased 186,532,426 pounds, or 28.9 per cent, while its value increased \$33,520,270, or 60.6 per cent, during the same period.

The value of all meat products, including sausage and "All other fresh meats," represented 75.3 per cent of the total value of all products for the industry in 1909, as compared with 78 per cent in 1904. The advance in price, as affecting the gain in value, seems to have been most pronounced in the case of salted and cured beef, whose value per pound in 1909 was more than double that in 1904. In the case of lard, the value increased 140.9 per cent, while the output increased only 34 per cent.

Lumber and timber products.—According to some authorities the first sawmills operated in the territory now comprised within the limits of the United States were erected at New Amsterdam and Fort George on the Hudson River early in the seventeenth century. Lumbering has been one of the leading industries in New York state from the beginning, and while its maximum annual production was reached and passed more than a decade ago, the industry still ranks ninth among the industries of the state in value of products and seventh in average number of wage earners employed.

The following statement shows the quantity of rough lumber, lath, and shingles produced by the sawmills of the state in 1909 and 1899:

	QUANTITY.	
PRODUCT.	1909	1899
Rough lumber M feet b. m. Lath thousands. Shingles. thousands.	681, 440 70, 878 91, 886	878, 448 66, 468 160, 294

As indicated by the figures, the quantity of lumber cut in New York decreased 22.4 per cent from 1899 to 1909, and the output of shingles 42.7 per cent, while there was an increase of 6.6 per cent in the production of lath. In 1899 about three-fourths of all the lumber

cut in the state was softwood, while in 1909 the softwood varieties constituted only 59.4 per cent of the total. In 1909 more lumber was sawed from hemlock than from any other species, the quantity being 162,784 M feet board measure, or 23.9 per cent of the entire production. Spruce and white pine were next in order, with 127,864 M feet and 104,658 M feet, respectively. While 11 varieties of hardwood lumber were reported in 1909, maple, beech, oak, and basswood, ranking in the order named, were the species cut in largest quantities, and together contributed 68.6 per cent of the total output of hardwood lumber in New York in that year

Flour-mill and gristmill products.—New York ranks first among the states in the quantity of corn, buck-wheat, and oats ground during 1909, third in that of wheat and rye, and sixth in that of barley. The following table shows the quantity and value of the different products for 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$69, 802, 278	\$54, 546, 435	\$35,930,493
White— Barrels. Value. Graham—	6,671,722 \$35,530,639	5,637,588 \$27,993,291	5, 107, 418
Barrels Value Corn meal and corn flour:	24,906 \$129,252	41, 155 \$184, 592	\$18,569,427
Barrels Value Rye flour:	2,090,537 \$5,967,943	3,004,226 \$6,928,206	2,937,282 \$5,530,454
Barrels Value Buckwheat flour:	226, 992 <b>\$</b> 970, 797	332,719 \$1,424,315	236, 495 \$770, 651
PoundsValueBarley meal:	66, 632, 357 \$1, 724, 854	66,234,663 \$1,639,873	37,364,585 \$811,260
Pounds	1,530,356 \$25,587	7,005,960 \$96,844	5, 191, 778 \$66, 491
Pounds Value Feed:	19, 534, 650 \$289, 941	82,614,004 \$857,957	607, 400 \$6, 389
TonsValueOffal:	\$18,745,100	\$10,354,492	451,309 \$8,238,479
TonsValue	219,653 \$4,990,333	\$220,375 \$4,210,280	113,927 \$1,705,932
All other products	\$1,427,832	\$856,585	\$231,410

Wheat flour, which contributed slightly more than one-half of the total value of all products at each census, shows an increase of 17.9 per cent in quantity and 26.6 per cent in value for the period 1904-1909, as compared with an increase of 11.2 per cent in quantity and 51.7 per cent in value for the period 1899-1904. The output of offal, which consists mainly of bran and middlings, the by-products from the flour mills, decreased three-tenths of 1 per cent in quantity from 1904 to 1909, but increased 18.5 per cent in value; for the earlier five-year period, however, it shows an increase of 93.4 per cent in quantity and 146.8 per cent in value. Feed, which consists largely of corn and oats ground together, was the second product in importance at each census, and shows an increase of 58.6 per cent in quantity and 81 per cent in value for the period 1904-1909; between 1899 and 1904, however, there was a decrease in the output, though its value increased 25.7 per cent. The output of corn meal and corn flour increased in both quantity and value during the earlier five-year period, but decreased

in both respects during the later period. Buckwheat flour shows an increase in both quantity and value of output for both periods, while the remaining products presented separately in the table show gains in both quantity and value for the period 1899–1904 and losses for the period 1904–1909, the greatest decreases being those shown for barley meal, amounting to 78.2 per cent in quantity and 73.6 per cent in value.

Of the 983 mills reported in 1909, 270 were engaged in milling wheat flour. Of these, 105 produced less than 1,000 barrels during the year; 86, from 1,000 to 4,999 barrels; 49, from 5,000 to 19,999 barrels; 19, from 20,000 to 99,999 barrels; and 11, 100,000 barrels or over. The equipment reported in 1909 consisted mainly of 3,873 pairs of rolls and 1,111 runs of stone and steel burrs. In 1904 there were 4,200 pairs of rolls and 1,326 runs of stone and steel burrs. Barrels were manufactured by 9 of the establishments reported in 1909.

Paper and wood pulp.—Of the total of 178 paper and pulp mills in the state in 1909, 27 were engaged exclusively in the manufacture of wood pulp, 100 made paper only, and 51 produced both pulp and paper. The wood pulp manufactured in mills producing pulp exclusively was used largely as material by the paper mills of the state, and to the extent that it was so used its value represents a duplication both in the total cost of materials and in the total value of products shown for the industry.

The following table gives the quantity and cost of the principal materials used in the industry during 1909, 1904, and 1899:

MATERIAL.	1909	1904	1899
Total cost	\$31,767,283	\$22, 805, 751	\$14,563,222
Pulp wood	\$9,667,765	\$6,530,006	\$3,208,522
Tons Cost Ground—	331,143 \$10,075,729	264,862 \$7,012,081	189,519 \$4,595,014
Tons Cost Sulphite fiber—	150,844 \$3,202,648	\$1,942,151	93,749 \$1,485,176
Tons	162,847 \$6,157,218	145,974 \$4,801,063	66,769 \$2,519,066
Tons	17,452 \$715,863	7,806 \$268,867	29, 001 \$590, 772
Tons Cost Old or waste paper:	27,809 \$493,271	21,056 \$335,503	17,899 \$420,870
Tons Cost. Manila stock, including jute bagging, rope, waste, threads, etc.:	155, 436 \$2,000, 335	101,472 \$1,167,592	51,691 \$564,463
Tons	11,952 \$429,368	23,119 \$554,335	23,673 \$646,776
Fuel and rent of power	\$3,028,118 \$6,072,697	\$2,293,285 \$4,912,949	\$1,438,952 \$3,688,625

The cost of pulp wood shows an increase of \$3,137,759, or 48.1 per cent, for the five-year period 1904–1909, as compared with an increase of \$3,321,484, or 103.5 per cent, between 1899 and 1904; these figures, however, do not afford an entirely satisfactory index of the increase in the amount of wood consumed, as the price of wood advanced materially during the decade. In 1909 a total of 921,882 cords

of pulp wood were used in the industry, of which imported spruce formed 44.3 per cent; domestic spruce, 41.7 per cent; domestic poplar, 5.7 per cent; and imported poplar, 1.9 per cent.

The wood pulp purchased increased 66,281 tons, or 25 per cent, in quantity and \$3,063,648, or 43.7 per cent, in cost from 1904 to 1909. In addition to the pulp purchased, 399,659 tons in 1909, 370,572 tons in 1904, and 180,336 tons in 1899 were used in the mills where manufactured. A substantial increase between 1904 and 1909 was reported in the cost of all the other classes of materials shown in the table, with the exception of manila stock, which was the only class to show a decrease in quantity.

The quantity and value of the different products manufactured during the last three census years are shown in the following table:

PRODUCT.	1909	1904	1899
Total value	\$48,859,610	\$37,750,605	\$26,715,628
News paper: Tons Value	374,808	347,546	204, 957
	<b>\$1</b> 4,662,245	\$13,465,093	\$6, 879, 013
In rolls— Tons Value	355, 155	330, 423	162,153
	\$13,842,676	\$12,719,853	\$5,405,452
In sheets— Tons Value Book, cover, plate, and coated paper:	19,653	17,123	42,804
	\$819,569	\$745,240	\$1,473,56
Tons	68,717	33,567	31,46
Value	\$4,567,173	\$2,381,336	\$2,029,07
Wrapping paper: Tons Value Warpile (rope jute tog etc.)	150,098	157, 186	157,38
	\$7,724,244	\$7, 180, 993	\$7,466,18
TonsValue	17,347	20,888	22,76
	\$1,045,375	\$980,273	\$1,419,65
Heavy (mill wrappers, etc.)— Tons. Value	18,951	12,741	38,556
	\$695,468	\$466,846	\$2,164,49
Bogus or wood manila— Tons Value	79, 952 \$4, 206, 208	75, 262 \$3, 359, 980	74,72 \$3,092,37
All other— Tons Value	33,848 \$1,777,193	48, 295 \$2, 373, 894	21, 34 \$789, 66
Boards: Tons Value	141, 467 \$5, 105, 735	90,094 \$3,347,317	40,39 \$1,368,58
Value	23,757	11,011	12, 13
	\$948,796	\$508,000	\$411, 65
News— Tons Value	5,477 \$144,844	7, 230 \$255, 843	3,77 \$103,31
All other— Tons Value	112, 233 \$4, 012, 095	71,853 \$2,583,474	24, 48 \$853, 61
Tissues: Tons Value	30,049 \$2,786,101	18, 101 \$1, 764, 911	8,41 • \$768,94
Hanging papers: Tons. Value. Building, roofing, asbestos, and sheathing paper.	62,179	42,722	39,59
	<b>\$</b> 2,865,839	\$1,978,650	\$1,562,46
ing paper: Tons. Value. All other paper products:	21,743	10,963	8,04
	\$825,681	\$352,521	\$260,05
All other paper products: Tons Value. Wood pulp made for sale or for consumption in mills other than where pro-	41,187	19,861	15,16
	\$1,344,042	\$1,229,579	<b>\$1,</b> 083,96
duced: Tons Value	279,875 \$8,820,696	235, 442 \$5, 621, 342	214, 29 \$5, 232, 45
Ground— Tons Value	100,383	128,695	122,60
	\$1,859,391	\$1,921,371	\$1,896,78
Sulphite fiber— Tons Value	146, 256	89,368	76,65
	\$5, 586, 136	\$3,076,740	\$2,779,92
Soda fiber— Tons. Value.	33,236 \$1,375,169	17,379 \$623,231	15,03 \$555,74
All other products	\$157,854	\$428,863	\$64,89
Wood pulp produced (including that used in mills where manufactured), total, tons. Ground, tons. Sulphite fiber, tons. Soda fiber, tons.	679,534	606, 014	394, 68
	405,376	379, 029	245, 29
	234,717	200, 019	124, 99
	39,441	26, 966	24, 34

News paper was the principal product of the industry in 1909 and 1904, its value constituting 30 per cent of the total for all products in 1909, 35.7 per cent in 1904, and 25.7 per cent in 1899. Among the different paper products, the largest increase in value from 1899 to 1904 was that of \$6,586,080 reported for news paper, whereas from 1904 to 1909 the largest gain was that of \$2,185,837 in the value of book, cover, plate, and coated paper. Of the total output of news paper manufactured in 1899, 79.2 per cent was in rolls, while in 1904 and 1909 the proportions were 95.1 per cent and 94.8 per cent, respectively. News boards and the wrapping paper included under the head of "All other" are the only paper products which show losses in both quantity and value from 1904 to 1909, although the output of manila wrapping paper shows a decrease in quantity alone. In 1909 New York contributed 31.3 per cent of the total value of the news paper manufactured in the United States, 21.3 per cent of the value of the bogus or wood manila wrapping paper, and 32.6 per cent of the value of the tissues.

Of the total quantity of wood pulp manufactured in the state in 1909, including that used in the mills where it was made, 59.7 per cent was ground wood pulp, 34.5 per cent sulphite fiber, and 5.8 per cent soda fiber, while in 1899, 62.2 per cent of the total quantity was ground wood pulp, 31.7 per cent was sulphite fiber, and 6.2 per cent soda fiber, a comparison of the figures showing a slight increase in the proportion of sulphite fiber during the decade. Fifty-eight and eight-tenths per cent of the pulp manufactured in 1909 was used in the mills where it was made, as compared with 61.1 per cent in 1904 and 45.7 per cent in 1899. Of the pulp manufactured for sale or for use in other mills in 1909, 35.9 per cent was ground wood pulp, while 52.3 per cent was sulphite fiber, and 11.9 per cent was soda fiber. In 1904 and 1899, however, ground wood pulp constituted more than one-half the total quantity of pulp manufactured for sale. The figures given in the table show that there has been a marked increase, especially since 1904, in the amount of sulphite and soda fiber manufactured for sale, and a considerable decrease in the amount of ground wood pulp, though the total amount of each kind of pulp manufactured shows an increase throughout the decade. The value of sulphite fiber constituted more than one-half the total value of pulp manufactured for sale in each census year, amounting in 1909 to 63.3 per cent.

The first table on the following page shows the number and capacity of the Fourdrinier and cylinder machines used in the paper mills, and of the grinders and digesters used in the pulp mills in 1909, 1904, and 1899.

The number of paper machines increased from 290 in 1904 to 331 in 1909, while their annual capacity increased 215,174 tons, or 24.4 per cent, during the

same time; from 1899 to 1904 the increase in the number of machines was relatively small, but their capacity increased 44.1 per cent. Fourdrinier machines formed more than half the total number in 1904 and 1899, but in 1909 they were considerably outnumbered by the cylinder machines, which are generally used in the manufacture of tissue paper, boards, and certain other special kinds of paper. The average capacity of the Fourdrinier machines, however, was more than twice as great as that of the cylinder machines, so that the former still represented in 1909 more than two-thirds of the total paper-making capacity. The number of pulp grinders decreased somewhat from 1904 to 1909, but their yearly capacity increased 118,733 tons, or 21 per cent; the number of sulphite digesters increased from 84 to 93, and their capacity increased 75,338 tons, or 32.3 per cent; and the number of soda digesters remained unchanged, while their capacity increased 12,161 tons, or 37.4 per cent.

MACHINE.	1909	1904	1899
Paper machines:			
Total number	.331	290	26
Capacity, yearly, tons.	1,096,094	880, 920	611, 17
Fourdrinier—	1,000,001	650, 820	011, 11
Number	153	155	139
Capacity per 24 hours, tons.	2,475	2,230	(1)
Cylinder—	, -, -	2,200	(7)
Number	178	135	127
Capacity per 24 hours, tons	1,124	815	(1)
Pulp equipment:			• • •
Grinders, number	500	535	449
Digesters, total number.	114	105	8:
Sulphite, number	93	84	(2)
Soda, number	21	21	(2)
Capacity, yearly, tons of pulp, total	1,038,741	832,509	495,66
Ground	685, 436	566,703	(2)
SulphiteSoda	308,622	233, 284	(2)
D001a	44,683	32,522	(2)

1 Not reported.

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

Boots and shoes.—The following table shows the number of pairs of the various kinds of boots and shoes manufactured during 1909, 1904, and 1899:

KIND.	NUMBER OF PAIRS.		
EU(D)	1909	1904	1899
Boots and shoes.  Men's. Boys' and youths'. Women's. Misses' and children's.  Slippers Men's, boys', and youths'. Women's, misses', and children's.  Infants' shoes and slippers. All other kinds of footwear.	20, 105, 346 3, 853, 855 745, 527 10, 141, 133 5, 364, 831 2, 518, 469 701, 356 1, 817, 113 3, 797, 675 2, 116, 961	19, 010, 064 5, 576, 787 1, 265, 183 7, 174, 649 4, 993, 445 2, 037, 412 393, 968 1, 643, 444 (1) 2, 779, 814	16, 521, 347 3, 870, 221 1, 402, 066 5, 896, 367 5, 352, 693 1, 667, 410 435, 215 1, 232, 195 (1) 1, 265, 166

1 Not reported separately.

This table indicates that 20,105,346 pairs of boots and shoes and 2,518,469 pairs of slippers, or 8.1 per cent and 14.4 per cent of the respective totals for the United States, were manufactured in New York in 1909, these figures representing increases of 5.8 per cent and 23.6 per cent, respectively, as compared with 1904. The production of women's boots and shoes increased 41.3 per cent between 1904 and 1909, and that of misses' and children's boots and shoes 7.4 per

cent. On the other hand, a decrease of 30.9 per cent occurred in the output of men's boots and shoes, and a decrease of 41.1 per cent in that of boys' and youths' boots and shoes. With the exception of the footwear included under the head of "All other kinds of footwear," which comprises, for the most part, sandals and bath slippers, the remaining classes in the table show substantial gains for this period.

The following table shows the number of pairs of the various kinds of footwear made in 1909, classified according to the methods used in their manufacture:

	NUMBER O	OF PAIRS, E	Y METHOL	OF MANU	FACTURE.
KIND.	Total.	Machine or hand welt.	Turned.	МсКау.	All other methods.1
Boots and shoes  Men's  Boys' and youths'  Women's  Misses' and children's.  Slippers  Men's, boys', and youths'.  Women's, misses', and children's.  Infants' shoes and slippers  All other kinds of footwear	20, 105, 346 3, 853, 855 745, 527 10, 141, 133 5, 364, 831 2, 518, 469 701, 356 1, 817, 113 3, 797, 675 2, 116, 961	204,562 4,905,261 1,161,211 360,670 73,847	(2) (2) 2, 330, 233 2, 739, 824 621, 300 146, 395 474, 905 3, 446, 029	707, 943 296, 833 2, 905, 639 1, 463, 796 1, 523, 174 479, 856 1, 043, 318 22, 203	13, 325 1, 258 12, 067 37, 601

<sup>&</sup>lt;sup>1</sup> Includes wire-screw or metal-fastened, and wooden-pegged.
<sup>2</sup> Included under "All other methods."

Of the total number of pairs of boots and shoes manufactured in New York in 1909, 36.8 per cent were machine or hand welt sewed, 26.7 per cent were McKay sewed, 25.2 per cent were turned, and 11.2 per cent manufactured by other methods, the latter class comprising wire-screw or metal-fastened, and woodenpegged shoes. More than half of the total number of men's boots and shoes were of the last-mentioned types. About two-fifths of the boys' and youths' boots and shoes and more than half of the slippers were manufactured by the McKay process. Almost half of the women's boots and shoes were made by the machine or hand welt process, and more than half of the misses' and children's boots and shoes, together with nearly all of the infants' shoes and slippers, were turned.

Butter, cheese, and condensed milk.—The quantity of milk used in this industry increased from 2,309,-599,597 pounds in 1899 to 2,722,580,187 pounds in 1904, but decreased to 2,422,727,788 pounds in 1909, whereas the quantity of cream used increased from 2,496,730 pounds in 1899 to 6,176,069 pounds in 1904 and 17,842,320 pounds in 1909. Owing to the importance of the condensed-milk branch of the industry in the state, the quantity of milk used by all branches of the industry combined has not decreased as rapidly since 1904 as it has done in most other states. The quantity of milk used in the butter-making branch of the industry, however, has decreased decidedly on account of the radical change in the method of handling milk which has taken place in the last decade. Formerly it was a common practice for the farmer to sell

the whole milk to the creamery, but now the milk is usually separated on the farm and only the cream is sold. Of the 1,552 establishments included in this industry in 1909, 512 used separators, whereas 705 of the 1,766 plants in operation during 1904 reported such machinery. The number of separators in these establishments in 1909 was 1,065, as against 1,219 in 1904.

The quantity and value of the different products for 1909, 1904, and 1899 are presented in the following table:

PRODUCT.	1909	1904	1899
Total value	\$42, 458, 345	\$31,047,776	\$26, 557, 888
Butter:		** *** ***	10, 000, 010
Pounds	45,897,216	58, 256, 504	40, 693, 846
Value	\$13,471,482	\$12,316,059	\$8,087,210
Packed solid— Pounds	31, 481, 828	46,208,732	33,068,820
Value	\$9, 127, 057	\$9,522,572	\$6,471,515
Prints or rolls—	\$9,121,001	\$3,022,012	φυ, 471, 010
Pounds	14,415,388	12,047,772	7,625,026
Value	\$4,344,425	\$2,793,487	\$1,615,695
Cheese:	ψτ, υττ, τευ	\$20, 100, x01	Ψ1, 010, 000
Pounds	105, 194, 898	132, 836, 482	127,386,032
Value	\$14,266,924	\$10,812,747	\$12,226,783
Full-cream—	<b>4,-</b> ,	*,,	, ,
Pounds	89,055,411	(1)	(1) (1)
Value	\$12,502,997	(1) (1)	(1)
Part-cream—			
Pounds	7, 171, 365	(1) (1)	(1) (1)
Value	\$778,770	(1)	(1)
Skimmed—			
Pounds	4,455,681		(1)
Value	\$291,246	(1)	(1)
Other kinds—		///	(1)
Pounds	4,512,441	(1) (1)	(1) (1)
Value	\$693,911	(1)	(,)
Condensed milk:	100 001 000	100 400 955	75, 447, 148
Pounds	120, 601, 999 \$9, 428, 283	102, 480, 355 \$6, 718, 380	\$4,801,223
Value Sweetened—	⊕8,420,200	φυ, 110,000	04,001,220
Pounds	87,658,031	78, 149, 508	75, 447, 148
Value	\$7,575,218	\$5,433,668	\$4,801,223
Unsweetened—	Q1,010,233	1909 2009 01.2	\$1,000,000
Pounds	32,943,968	24,330,847	
Value	\$1,853,065	\$1,284,712	
Cream sold:	, , ,		
Pounds	27,078,783	5,072,920	11,943,408
Value	\$3,481,296	\$428,941	\$784,623
Casein			1
PoundsValue	6,712,971	6,736,506	6, 223, 085
Value	\$482,308	\$310,953	\$154,272
All other products2	\$1,328,052	\$460,696	\$503,777
	1	1	1

<sup>&</sup>lt;sup>1</sup> Not reported separately.
<sup>2</sup> Includes skimmed milk sold and whey.

Cheese was the most important product, as measured by value, in 1909 and 1899, and butter the leading product in 1904. The total value of cheese represented 33.6 per cent of the total value of products for the industry in 1909, and that of butter 31.7 per cent; for 1904 the corresponding percentages were 34.8 and 39.7, while for 1899 they were 46 and 30.5, respectively.

The output of cheese increased in quantity but decreased in value from 1899 to 1904, while from 1904 to 1909, though it decreased 20.8 per cent in quantity it increased 31.9 per cent in value. From 1899 to 1904 both the total quantity and the total value of butter increased decidedly, but from 1904 to 1909 its value increased much less rapidly and its quantity decreased more than one-fifth. The total output of condensed milk increased substantially in both quantity and value during the decade.

The proportions which the values of these three classes of products for the state formed of the corresponding totals for the United States in 1909 were as

follows: Cheese, 33 per cent; butter, 7.5 per cent; and condensed milk, 28.1 per cent. Measured by value of products, New York held first place among the states in the manufacture of condensed milk, second in the manufacture of cheese, and fourth in the manufacture of butter.

Gas, illuminating and heating.—The following table shows the quantity and cost of the different materials used in the gas industry during 1909 and 1904:

MATERIAL.	1909	1904
Total cost	\$15,018,406	\$10,940,401
Coal: Tons	1, 275, 404 \$4, 305, 405	1,159,196 \$3,934,231
Coke: Tons Cost	101,012 \$330,338	37,274 \$77,052
Oil: Gallons	171, 212, 040 \$5, 578, 560	128, 365, 316 \$5, 509, 761
Calcium carbide: Pounds	897,350 \$27,489	31,600 \$1,251
Gas, purchased	\$384,712	\$62,151 \$388,370 (1) \$967,585

<sup>1</sup> Figures not available.

Oil was the most important material used, both in 1909 and in 1904, contributing 37.1 per cent of the total cost of materials for the industry in the later year and 50.4 per cent in the earlier. Although the quantity used in 1909 was practically one-third more than in 1904, the cost was but slightly greater. The material next in importance was coal, the cost of which represented 28.7 per cent of the cost of all materials in 1909 and 36 per cent in 1904. The quantity used increased 116,208 tons, or 10 per cent, and its cost \$371,174, or 9.4 per cent, during the five-year period. Although contributing a very small proportion of the total cost of materials, calcium carbide, which is used in the manufacture of acetylene gas, shows the greatest relative gain in quantity, and also, with the exception of gas purchased, in cost. A number of companies manufacturing gas within the state purchase considerable quantities of gas for distribution from other New York gas companies, such purchases amounting in 1909 to 6,289,180,000 cubic feet and costing \$2,965,563. These figures, in a measure, represent the extent of duplication in the industry for the year. The decrease in cost shown for "All other materials" is due largely to the fact that in 1904 this class included lamps and appliances, which were reported separately in 1909.

The quantity and value of the different products manufactured during 1909 and 1904 are shown in the first table on the following page.

The total quantity of all kinds of gas reported in 1909 was 45,768,354,000 cubic feet, valued at \$34,-851,565, as compared with 34,180,625,000 cubic feet, valued at \$33,483,741, in 1904, an increase of 11,587,729,000 cubic feet, or 33.9 per cent, in quantity, and an increase of \$1,367,824, or 4.1 per cent, in value.

PRODUCT.	1909	1904
Total value		\$35,314,903
Cubic feet, thousands	45,768,354	24 100 605
Value	\$34,851,565	34,180,625
		\$33,483,741
Cubic feet, thousands	6, 258, 297	2,277,537
value	\$4,267,355	\$2,084,077
Carbureted water—	1	92,002,011
Cubic feet, thousands	34,759,676	22, 336, 001
value	\$26,704,625	\$18,569,697
M1Xeq		\$10,000,001
Cubic feet, thousands	4,603,866	9, 261, 881
Value	\$3,490,211	\$12,518,259
On—	, ,	\$14,010,400
Cubic feet, thousands	134, 167	303, 186
value	\$322,878	\$306, 270
Acetylene—		φουυ, 210
Cubic feet, thousands	3,488	128
Value	\$48,837	\$2,014
All other—		Ψ4, υι τ
Cubic feet, thousands	8.860	1,892
Value	\$17,659	\$3,424
Coke:		φυ, τωτ
Bushels	17.509.858	11,839,567
Value	\$1,163,509	\$732,712
rar:	1 ' ' [	Ψ102; 1±2
Gallons	1 15, 304, 307	13, 334, 182
Value	\$312.749	\$317,214
	'	4021,022
All other products	\$4,984,977	\$152,823
Receipts from sales of lamps and appliances	\$1,033,926	\$628,413

<sup>1</sup> In addition, 6,439,961 gallons were reported without value.

Carbureted water gas formed more than three-fourths of the total quantity of gas reported in 1909, its production having increased 12,423,675,000 cubic feet, or 55.6 per cent, from 1904 to 1909; the value of this gas constituted 52.6 per cent of the total value of all products in the former year, and 63.1 per cent in the latter. Straight coal gas was second in importance in 1909, although in 1904 mixed gas ranked second in both quantity and value. During this period the output of straight coal gas increased 3,980,760,000 cubic feet, or 174.8 per cent, and its value \$2,183,278, or 104.8 per cent. The quantity of mixed gas and of oil gas decreased more than one-half from 1904 to 1909; acetylene gas, on the other hand, shows a remarkable increase, although the output was comparatively small even in 1909. There was a substantial increase during the five years in the output of coke produced for sale, and of tar, the former increasing 5,670,291 bushels, or 47.9 per cent, and the latter 1,970,125 gallons, or 14.8 per cent.

Iron and steel, steel works and rolling mills.—The next table shows the quantity and the cost of the principal classes of materials and the quantity and value of the main groups of products reported by the steel works and rolling mills of New York for 1909, 1904, and 1899.

Pig iron and ferroalloys (spiegeleisen, ferromanganese, etc.), constituted the most important group of materials used in 1909 and 1904, as regards both the tonnage and cost, but a slightly larger cost was reported for scrap iron in 1899. The cost of pig iron and the other materials included in this group formed 58.3 per cent of the total cost of materials used in 1909, as compared with 51.3 per cent in 1904 and 29.2 per cent in 1899. From 1904 to 1909 there was a general increase in the tonnage of each of the three main groups of materials used, as well as in the cost of each class of materials shown in the table, the

largest relative gains in both respects being shown for the group comprising ingots, blooms, etc. In addition to the scrap iron and steel shown in the table, which was acquired from outside sources, a little over 200,000 tons produced in the works themselves during 1909 were charged back into the furnaces.

Rolled, forged, and other classified products, which contributed 85.8 per cent of the total value of products for the industry in both 1909 and 1904, and 88.6 per cent in 1899, show an increase from 1904 to 1909 of 486,645, or 85.5 per cent, in tonnage, and \$15,705,046, or 86.2 per cent, in value. The total production of steel in the state in 1909 was 1,115,250 tons and in 1904 474,258 tons, a little more than half being manufactured by the Bessemer process. Of the steel product for 1909, 1,088,840 tons were in ingots, of which 1,087,518 tons were converted into rolled forms in the works where produced, and 26,410 tons were in castings.

			[
MATERIAL OR PRODUCT.	1909	1904	1899
Materials, total cost.  Pig iron and ferroalloys—spiegeleisen, ferromanganese, etc.;	\$25, 889, 170	\$13,260,039	\$4,168,055
Tons. Cost. Scrap, purchased, including old rails not intended for rerolling: 1	947,541 \$15,087,647	506, 902 \$6, 800, 549	69,290 \$1,218,071
Tons Cost Ingots, blooms, billets, slabs, muck and scrap bar, ralls for rerolling, and sheet and tin-plate bars:	183, 112 \$3, 239, 711	156, 985 \$2, 181, 434	68,058 \$1,257,237
Tons Cost	96, 691 \$1, 874, 919	24, 811 \$676, 995	25, 997 \$695, 835
Fuel and rent of power	2, 170, 165 3, 516, 728	1,577,541 2,023,520	471,663 525,249
Products, total value	\$39, 532, 414	\$21,227,399	\$8,812,408
Tons. Value. All other products, including value added to rolling-mill products by further	1,055,968 \$33,921,048	569, 323 \$18, 216, 002	137,981 \$7,809,118
manufacture.	\$5,611,366	\$3,011,397	\$1,003,290

 $^{\rm 1}\,{\rm Includes}$  scrap transferred to the establishment reporting from other works of the company.

Iron and steel, blast furnaces.—The following table shows the quantity and value of pig iron produced in the years 1909, 1904, and 1899, together with the value of the other products of the blast-furnace industry in those years:

PRODUCT.	1909	1904	1899
Total value Pig iron: Tons Value	\$26,620,948 1,717,091 \$26,596,413	\$8,634,737 609,588 \$8,411,946	\$5,046,145 334,512 \$5,042,550
All other products	\$24 <b>,</b> 535	\$222,791	\$3,595
Bessemer Basie Foundry Forge or mill Malleable Bessemer All other	622, 115 262, 846 629, 905 48, 446 107, 973 45, 806	225, 414 4, 669 275, 104 34, 403 34, 848 35, 150	291,993 38,699 3,820

The production of pig iron increased remarkably during the decade 1899–1909, the actual gain from 1899 to 1904 being 275,076, or 82.2 per cent, in tonnage, and \$3,369,396, or 66.8 per cent, in value, and from 1904 to 1909, 1,107,503, or 181.7 per cent, in

tonnage, and \$18,184,467, or 216.2 per cent, in value. Of the 1909 product, all of which was coke iron, 770,429 tons were manufactured for use in the plants of the producing companies, and 946,662 tons were produced for sale. The leading grade of pig iron manufactured during each of the three census years was that for foundry purposes, which formed 36.7 per cent of the total production in 1909, 45.1 per cent in 1904, and 87.3 per cent in 1899. No Bessemer pig iron was reported in 1899, but it was second in importance both in 1909 and in 1904, the output amounting to 622,115 tons in 1909, as compared with 225,414 tons in 1904.

There were 19 active furnaces in 1909, of which 17 were located in the western part of the state, in Erie, Niagara, and Monroe Counties, and 2 in the Champlain district. The western group of furnaces used Lake Superior ores, while those of the Champlain district used ores mined in the neighborhood. Four furnaces of the Lackawanna Steel Company having a daily capacity of 600 tons each are included in the western group. This is the largest size of furnace in use, there being only five others in the United States having this capacity.

Chemicals.—The following table shows the quantity and value of the more important chemicals and groups of chemicals manufactured during 1909, 1904, and 1899:

	···		
PRODUCT.	1909	1904	1899
Total value	\$35, 346, 072	\$23,021,705	1\$15,994,366
Acids	\$2,551,874	\$1,101,874	\$444,510
Sodas	\$6,079,225	\$5, 542, 930	\$4,921,144
Soda ash—	142, 131	173, 721	167,552
TonsValue	\$2,271,513	\$2,815,718	\$2,066,422
Sal soda—	@2, 211, O10	Ψ2, 010, 110	62,000, 122
Tons	37,106	35,824	28,095
Value	\$437,531	\$498, 361	\$357,303
Bicarbonate of soda—	40.000	44 047	40.010
Tons	49,306 \$866,836	44, 247 \$587, 698	43,812 \$885,003
ValueOther soda products	\$2,503,345	\$1,641,153	\$1,612,416
Alums	\$454,523	Ø1, 011, 100	\$593,070
Coal-tar products	\$198,510	\$87,000	\$43,300
Bleaching materials	\$916,527	\$567,774	\$340,612
Chemical substances produced by the			,
aid of electricity	\$12,918,719	\$4,784,640	\$1,102,481
Plastics	\$556,005	\$2,636	
Compressed and liquefied gases	\$619,304	\$490,316	\$226,452
Fine chemicals:			
Silver salts— Ounces	459, 149	467,051	325, 121
Value	\$199,130	\$161,179	\$120, 104
Chloroform—	<b>#100,100</b>	<b>Q101, 110</b>	<b>4120, 10</b>
Pounds	1,647,506	150,000	62,540
Value	\$417,204	\$50, 127	\$31,270
All other	\$1,464,947	\$2,472,246	\$324, 124
Glycerin: 2			0 000 000
Pounds	19,871,614	8,000,000	8,000,000
Value	\$2,766,879	\$1,120,000	\$1,120,000
Cream of tartar: Pounds	13, 309, 512	11, 553, 660	4,800,000
Value	\$2,504,869	\$2,263,872	\$960,000
T 03100			,
Other chemicals	\$2,707,903	\$1,766,703	\$53,275
All other products	\$990,453	\$2,610,408	1\$5,714,024
	1 .	I	

<sup>1</sup> Including sulphuric, nitric, and mixed acids and wood distillation products valued at \$3,908,400.

<sup>2</sup> Not including 8,955,960 pounds, valued at \$1,212,606, in 1909, and 3,432,515 pounds, valued at \$383,885, in 1904, produced in the state by manufacturers of soap.

The chemical substances produced by the aid of electricity formed the most important group in respect to value, in 1909, and show the largest actual gains, the value having increased \$3,682,159, or 334 per cent, from 1899 to 1904, and \$8,134,079, or 170

per cent, from 1904 to 1909. The value of these products constituted 36.5 per cent of the total value of all products reported for the industry in the state in 1909, as compared with 20.8 per cent in 1904, and 6.9 per cent in 1899. The remarkable growth in the manufacture of this group of products in New York is due largely to the extensive utilization of water power in the western part of the state for the generation of electric current. The value of this group of products manufactured in New York during 1909 represented nearly three-fourths of the total value of such products for the United States. The principal substances constituting this group in 1909 were aluminum (which is obtained exclusively by the electrolytic process), calcium carbide, hypochlorites, caustic soda, sodium, chlorates, phosphorus, and carborundum.

The next group in importance in point of value in 1909 consisted of sodas, the total value of which increased \$621,786, or 12.6 per cent, from 1899 to 1904, and \$536,295, or 9.7 per cent, from 1904 to 1909. Soda ash was the most important single item of the group, and bicarbonate of soda the second. It is noteworthy that the quantity and value of soda ash and the value of sal soda decreased from 1904 to 1909. This group of products was the most important in 1904, but since that period has been superseded by "chemical substances produced by the aid of electricity."

Glycerin and cream of tartar represented the largest values of any of the chemicals shown separately in the table in 1909. The output of glycerin in New York (by the establishments engaged primarily in the manufacture of chemicals) shows an increase from 1904 to 1909 of 11,871,614 pounds, or 148.4 per cent, in quantity and \$1,646,879, or 147 per cent, in value. Nearly all of the cream of tartar manufactured in the United States during 1909 was made in New York.

The most decided relative increase from 1904 to 1909 was in the value of plastics. The manufacture of plastics in New York is a comparatively new industry, for the total output in 1904 was valued at only \$2,636, whereas in 1909 it reached \$556,005, of which the value of casein, fibrin, or gluten compositions represented 95.3 per cent. Chloroform also shows large relative gains in quantity and value.

In addition to those shown in the above table, chemicals valued at \$1,835,321 were produced incidentally during 1909 by 17 establishments primarily engaged in the manufacture of products classified under other industry designations.

Musical instruments, pianos and organs and materials.—The number and value of the different classes of instruments manufactured during 1909, 1904, and 1899 are shown in the first table on the following page.

A total of 141,389 pianos were made in 1909, an increase of 39,357, or 38.6 per cent, over the number

reported in 1904, which, in turn, was 42 per cent greater than the number reported in 1899. The value of pianos constituted 70.6 per cent of the total value of products for the industry in 1909, 71.3 per cent in 1904, and 80.4 per cent in 1899. By far the greater part of the pianos were uprights without player attachments, this class showing a substantial increase both in number and in value for both five-year periods. The growth in the production of pianos for or with player attachments, however, has been remarkable, the number having increased from 83 in 1899 to 1,506 in 1904 and 18,917 in 1909. Comparatively few organs were made in the state during any one of the three census years. The number dropped from 1,774 in 1899 to 58 in 1904, but advanced to 275 during the next five-year period. Of these instruments, all in 1904 and nearly all in 1909 were pipe organs. There were 1,701 reed organs manufactured in 1899, but none were reported in 1904 and only 30 in 1909. Both in 1904 and 1909 the value of parts and materials constituted a considerable proportion of the total value of products. The major portion of this amount represents the value of the output of independent establishments manufacturing cases and other parts of instruments which were used as materials in the instrument factories of the state, so that their value was counted again as a part of the value of the finished pianos and organs and thus represents a duplication in the total cost of materials and value of products for the industry.

PRODUCT.	1909	1904	1899
Total value	\$33, 679, 953	\$23,389,504	\$14,746,431
Number Value Upright—	\$23,771,763	102,032 \$16,684,911	71,855 \$11,862,257
Number Value.	137, 091 \$21, 401, 242	98, 491 \$14, 819, 717	69, 274 \$10, 899, 392
Without player attachments— Number Value.	118, 174 \$16, 777, 094	96, 985 \$14, 505, 035	69, 191 \$10, 876, 742
For or with player attachments— Number. Value.	18, 917 \$4, 624, 148	1,506 \$314,682	\$3 \$22,650
Grand— Number Value	4,298 \$2,370,521	3,541 \$1,865,194	2,581
Player attachments made separate from pianos: Number	. ,		\$962,865
Value	2,789 \$829,405	\$321,865	(1) (1)
NumberValuePipe—	\$334,573	\$133,471	1,774 \$279,941
Number	\$330, 373	\$133,471	73 \$216, 120
Number Value.	30 \$4,200		1,701 \$63,821
Parts and materials	\$7,276,182 \$1,468,030	\$5,142,812 \$1,106,445	(1) \$2,604,233

1 Not reported separately.

Automobiles, including bodies and parts.—The next table shows the number and value of the different classes of machines manufactured during 1909 and 1904.

During 1909, 8,064 automobiles, valued at \$17,509,582, were made in the automobile factories of New York, as compared with 1,808 automobiles, valued at

\$3,071,093, in 1904, the number in 1909 being over four times as great and the value nearly six times as great as in 1904. Of the automobiles manufactured in 1909, 7,529, or 93.4 per cent of the total number. were propelled by gasoline, as compared with 1,496, or 82.7 per cent of the total, in 1904. There were 7.447 passenger automobiles made in 1909, of which 5,440 were touring cars, and 617 business vehicles, of which 475 were trucks and 139 were delivery wagons. During the five-year period the number of gasoline automobiles increased 403.3 per cent, while those propelled by electricity and steam increased only 71.5 per cent. The most noteworthy increase in the different classes of vehicles manufactured was in touring cars, which show an increase from 421 in 1904 to 5,440 in 1909. Of the 8,064 automobiles manufactured in 1909, 686 were rated at less than 10 horsepower; 1,410, at 10 but less than 20 horsepower; 1,089, at 20 but less than 30 horsepower; 4,198, at 30 but less than 50 horsepower; 666, at 50 but less than 90 horsepower; and 15, at 90 horsepower or over. Of the 126,593 automobiles made in the United States during 1909 by the establishments engaged primarily in this industry, 6.4 per cent were made in New York.

		1909	1904	
PRODUCT.	Number.	Value.	Number.	Value.
Total value		1 \$30,979,527		\$4,260,164
Automobiles. Gasoline. Electric and steam.	8,064 7,529 535	17,509,582 16,446,788 1,062,794	1,808 1,496 2 312	3, 071, 093 2, 169, 093 902, 000
Passenger vehicles Touring cars Runabouts and buggies Limousines, cabs, etc All other (omnibuses, patrol	7,447 5,440 1,304 667	16, 332, 669 12, 296, 292 1, 835, 659 2, 093, 020	1,650 421 1,120	2,530,136 1,022,582 1,222,554
wagons, etc.)  Business vehicles.  Delivery wagons.  Trucks and all other.	617	107, 698 1, 176, 913 282, 989 893, 924	109 158 77 81	285,000 540,957 191,457 349,500
All other products, including repair work		13, 469, 945		1, 189, 071

<sup>&</sup>lt;sup>1</sup> In addition, 39 automobiles, valued at \$110,168, and bodies and parts, valued at \$527,863, were manufactured by establishments engaged primarily in the manufacture of other commodities.

<sup>2</sup> Includes 5 steam touring cars.

The products included under the head of "All other products" at the census of 1909, the value of which amounted to \$13,469,945, or 43.5 per cent of the total for all products, consisted largely of automobile bodies and parts manufactured by establishments where no finished vehicles were produced. It has been the practice to segregate the manufacture of the different parts to a considerable extent and to distribute the various processes among different establishments. As these partly manufactured products became the materials for other establishments which assemble the parts and produce the complete vehicle, there was a duplication, approximately equivalent to the value of such bodies and parts used in the factories of the state, in the total cost of materials and value of products reported for the industry.

Paint and varnish.—The quantity and value of the different products for 1909, 1904, and 1899 are shown in the following table:

Total value	PRODUCT.	1909	1904	1899
Pigments:         White lead, dry—Pounds.         12,173,520         174,518,249         139,109,00           Oxides of lead—Pounds.         20,180,006         15,825,810         12,426,000           Value.         \$639,841         \$83,651,765         \$822,933           Lamp and other carbon blacks—Pounds.         522,700         27,040         \$822,933           Value.         \$199,666         \$84,555         \$22,604           Pounds.         \$199,666         \$64,555         \$12,458,000           Pounds.         \$199,666         \$864,555         \$121,534           Dry colors, including vermilion and other fine colors—Pounds.         \$4,639,112         \$24,679,202         \$42,695,643           Value.         \$2,595,124         \$24,679,202         \$42,695,643           Pounds.         \$4,933,000         \$40,000         \$27,772,554           Barytes—Pounds.         \$4,933,000         \$40,000         \$2,977,2554           Paints:         \$872,171         \$593,504         \$580,623           Paints:         \$872,171         \$593,504         \$580,623           Paints in oil, in paste—Pounds.         \$2,273,183         \$2,273,832         \$2,273,832         \$4,009,897           Paints in oil, in paste—Pounds.         \$3,618,181         <	Total value	\$28, 559, 474	\$25, 121, 446	\$18,878,292
Pounds	Pigments:			•
Value	White lead, dry—	19 179 590	1 74 518 940	1 30 100 000
Pounds	Value	\$639,841	1 \$3,651,795	
Pounds	Oxides of lead—	´	` '	
Lamp and other carbon blacks	Pounds			
Pounds	Value	\$1,181,254	\$822, 933	<b>≥</b> 003,176
Value	Pounds	532.700	27, 040	
Pounds	Value		\$2,604	
Value	Iron oxides and other earth colors—		·	15 450 000
Dry colors, including vermilion and other fine colors	Pounds	11,919,174	9, 172, 633	10,458,000 \$121 534
other fine colors—     Pounds.	Dry colors, including vermilion and	\$150,000	φυτ, ευθ	\$121,00±
Pounds	other fine colors—			
Value	Pounds	44,639,112		42,695,643
Pounds	Value	\$2,595,124	\$2,654,869	\$2,772,554
Value	Barytes—	4 303 000	40 000	(2)
Pulp colors sold moist— Pounds. 14,020,581 14,776,079 5580,623  Paints: White lead in oil— Pounds. 62,973,138 (2) (2) (2) Paints in oil, in paste— Pounds. 22,74,401 \$2,273,822 \$4,009,897 Paints in oil, already mixed for use— Gallons. 3,331,091 3,947,600 2,922,134 Value. \$3,618,181 \$3,412,447 \$2,908,441 \$4,026,714 \$2,273,822 \$4,009,897 Paints in oil, already mixed for use— Gallons. 5,199,289 \$5,070,390 4,928,208 Value. \$4,328,544 \$4,173,126 \$4,665,714 \$2,273,822 \$4,009,897 Paints in oil, already mixed for use— Gallons. \$5,199,289 \$5,070,390 4,928,208 Value. \$4,328,544 \$4,173,126 \$4,665,714 \$2,273,822 \$4,009,897 Paints in oil, already mixed for use— Gallons. \$253,266 \$323,596 \$4,665,714 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441 \$2,208,441	Value	\$23.167	\$400	<b>}</b> 2∕
Pounds. 14, 170, 079 12, 921, 623 125, 936, 623	Pulp colors sold moist—			, ,
Value. \$672,111 \$593,504 \$580,623  Paints: White lead in oil—     Pounds. 62,973,138 (2) (2) Paints in oil, in paste—     Pounds. 21,453,365 227 (2) (2) Paints in oil, in paste—     Pounds. 21,453,365 27,233,382 68,999,820 Paints in oil, already mixed for use—     Gallons. 3,331,091 3,947,600 2,922,134 Value. \$3,618,181 \$3,412,447 \$2,908,441  Varnishes and japans: Oleoresinous varnishes—     Gallons. 5,199,289 5,070,390 4,928,208 Value. \$4,328,544 \$4,173,126 \$4,665,714  Spirit varnishes—     Gallons. 253,266 323,596 220,705 Value. \$306,681 \$693,670 \$401,428  Pyroxylin varnishes—     Gallons. 372,689 3,669 102,777 Value. \$422,550 \$3,758 \$99,000  All other varnishes \$1,305,376 \$149,513 Drying japans and lacquers. \$1,276,148 \$831,873 \$1,074,113  Liquid fillers:     Gallons. 201,332 188,014 (2) Value. \$420,390 \$390,704 (2)  Paste and dry fillers and putty:     Pounds. 15,096,299 14,584,498 (2) Value. \$420,390 \$390,704 (2)  Water paints, dry:     Pounds. 1,436,904 (2) (2) Callons. 1,436,904 (2) (2) Value. \$781,731 (2) (2)  Bleached shellae:     Pounds. 1,739,727 (2) (2) Value. \$368,253 (2) (2)	Pounds	14,020,581	14,776,079	12,941,596
White lead in oil—     Pounds.	Value	\$672,111	\$593,504	\$580,623
Pounds	runts: White lead in oil—			
Paints in oil, in paste—	Pounds	62, 973, 138	(2)	(2)
Paints in oil, in paste—	Value	\$3,765.227	(2)	(2)
Value         \$2,274,401         \$2,273,822         \$4,009,897           Gallons         3,331,091         3,947,600         2,922,134           Vannishes and japans:         0leoresinous varnishes—         6allons         5,199,289         5,070,390         4,928,208           Value         \$4,328,544         \$4,173,126         \$4,665,714           Spirit varnishes—         253,266         323,596         220,705           Value         \$306,681         \$693,670         \$401,428           Pyroxylin varnishes—         372,689         3,669         102,777           All other varnishes         \$1,305,376         \$149,513         \$99,000           All other varnishes         \$1,305,376         \$149,513         \$1,074,113           Liquid fillers:         201,232         188,014         (2)           Value         \$189,561         \$125,385         (2)           Paste and dry fillers and putty:         15,096,299         14,584,498         (2)           Pounds         \$25,490,405         23,335,015         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Value         <	Paints in oil, in paste—	, ,		, ,
Value         \$2,274,401         \$2,273,822         \$4,009,897           Gallons         3,331,091         3,947,600         2,922,134           Vannishes and japans:         0leoresinous varnishes—         6allons         5,199,289         5,070,390         4,928,208           Value         \$4,328,544         \$4,173,126         \$4,665,714           Spirit varnishes—         253,266         323,596         220,705           Value         \$306,681         \$693,670         \$401,428           Pyroxylin varnishes—         372,689         3,669         102,777           All other varnishes         \$1,305,376         \$149,513         \$99,000           All other varnishes         \$1,305,376         \$149,513         \$1,074,113           Liquid fillers:         201,232         188,014         (2)           Value         \$189,561         \$125,385         (2)           Paste and dry fillers and putty:         15,096,299         14,584,498         (2)           Pounds         \$25,490,405         23,335,015         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Value         <	Pounds	21,453,365	27,233,382	68,999,820
Value	Value.	\$2,274,401	\$2,273,822	<b>⊅</b> 4,009,897
Value.         \$3,618,181         \$3,412,447         \$2,908,441           Varnishes and japans:         Oleoresinous varnishes—         5,199,289         5,070,390         4,928,208           Value.         \$4,328,544         \$4,173,126         \$4,665,714           Spirit varnishes—         253,266         323,596         220,705           Value.         \$306,681         \$693,670         \$401,428           Pyroxylin varnishes—         372,689         3,669         102,777           Value.         \$422,550         \$3,768         \$99,000           All other varnishes         \$1,305,376         \$149,513         \$1,074,113           Liquid fillers:         201,232         188,014         (2)           Value         \$15,996,299         14,584,498         (2)           Value         \$420,390         \$390,704         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Pounds         \$50,4945         23,335,015         (2)           Value         \$856,159         \$748,391         (2)           Used oil:         \$781,731         (2)         (2)           Used oil:         \$781,731         (2)         (2)           Us	Gallons	3, 331, 001	3.947.600	2.922.134
Varnishes and japans:         Oleoresinous varnishes—Gallons.         5,199,289         5,070,390         4,928,208           Value.         \$4,328,544         \$4,173,126         \$4,665,714           Spirit varnishes—Gallons.         253,266         323,596         220,705           Value.         \$306,681         \$693,670         \$401,428           Pyroxylin varnishes—Gallons.         372,689         3,669         102,777           Value.         \$422,550         \$3,758         \$99,000           All other varnishes.         \$1,305,376         \$149,513         \$1,074,113           Liquid fillers:         201,232         188,014         (2)           Qallons.         201,232         188,014         (2)           Value.         \$189,561         \$125,385         (2)           Paste and dry fillers and putty:         15,096,299         14,584,498         (2)           Pounds.         \$420,390         \$390,704         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Value.         \$856,159         \$748,391         (2)           Linseed oil:         \$748,391         (2)         (2)           Gallons.         1,436,904         (2) <t< td=""><td></td><td>\$3,618,181</td><td>\$3,412,447</td><td>\$2,908,441</td></t<>		\$3,618,181	\$3,412,447	\$2,908,441
Oleoresinous varnishes— Gallons. Value. Spirit varnishes— Gallons.  Gallons.  Callons.  Spirit varnishes— Gallons.  Spirit varnishes— Spirit varnishes	Varnishes and japans:	. , ,	, , , , , , ,	
Value         \$4,328,544         \$4,173,126         \$4,665,714           Spirit varnishes— Gallons         253,266         323,596         220,705           Value         \$306,681         \$693,670         \$401,428           Pyroxylin varnishes— Gallons         372,689         3,669         102,777           Value         \$422,550         \$3,788         \$99,000           All other varnishes         \$1,305,376         \$149,513         \$1,004,513           Liquid fillers:         201,232         188,014         (2)           Value         \$189,561         \$125,385         (2)           Paste and dry fillers and putty: Pounds         15,096,299         14,584,498         (2)           Value         \$420,300         \$390,704         (2)           Water paints, dry: Pounds         25,490,405         23,335,015         (2)           Value         \$556,159         \$748,391         (2)           Linseed oil: 	Oleoresinous varnishes—	F 100 000	E 050 000	4 000 000
Gallons   253,266   323,966   220,700   Value   \$306,681   \$693,670   \$401,428     Pyroxylin varnishes   372,689   3,669   102,777     Value   \$422,550   \$33,758   \$99,000     All other varnishes   \$1,305,376   \$149,513     Drying japans and lacquers   \$1,276,148   \$831,873     Liquid fillers:   Gallons   201,232   188,014   (2)     Value   \$189,561   \$125,385   (2)     Paste and dry fillers and putty:   Pounds   \$15,096,299   14,584,498   (2)     Value   \$420,390   \$390,704   (2)     Water paints, dry:   Pounds   \$420,390   \$390,704   (2)     Water paints, dry:   Pounds   \$856,159   \$748,391   (2)     Linseed oil:   \$781,731   (2)   (2)     Ualue   \$781,731   (2)   (2)     Bleached shellae:   Pounds   1,739,727   (2)   (2)     Value   \$368,253	Gallons	5,199,289	5,070,390 \$4 172 192	94,928,208 94,665,714
Gallons   253,266   323,966   220,700   Value   \$306,681   \$693,670   \$401,428     Pyroxylin varnishes   372,689   3,669   102,777     Value   \$422,550   \$33,758   \$99,000     All other varnishes   \$1,305,376   \$149,513     Drying japans and lacquers   \$1,276,148   \$831,873     Liquid fillers:   Gallons   201,232   188,014   (2)     Value   \$189,561   \$125,385   (2)     Paste and dry fillers and putty:   Pounds   \$15,096,299   14,584,498   (2)     Value   \$420,390   \$390,704   (2)     Water paints, dry:   Pounds   \$420,390   \$390,704   (2)     Water paints, dry:   Pounds   \$856,159   \$748,391   (2)     Linseed oil:   \$781,731   (2)   (2)     Ualue   \$781,731   (2)   (2)     Bleached shellae:   Pounds   1,739,727   (2)   (2)     Value   \$368,253	Snirit varnishes	φ±, 040, 044	φτ, 110, 140	
Pyroxylin varnishes—         372,689         3,669         102,777           Value         \$422,550         \$3,758         \$99,000           All other varnishes         \$1,305,376         \$149,513         \$1,074,113           Liquid fillers:         201,232         188,014         (2)           Value         \$189,561         \$125,385         (2)           Paste and dry fillers and putty:         15,096,299         14,584,498         (2)           Value         \$420,390         \$390,704         (2)           Water paints, dry:         25,490,405         23,335,015         (2)           Value         \$856,159         \$748,391         (2)           Linseed oil:         378,731         (2)         (2)           Value         \$781,731         (2)         (2)           Value         \$781,731         (2)         (2)           Bleached shellae:         1,739,727         (2)         (2)           Pounds         1,739,727         (2)         (2)           Value         \$368,253         (2)         (2)	(fallons	253,266	323,596	220,705
Callons	Value	\$306,681	\$693,670	\$401,428
Callons	Pyroxylin varnishes—	0#0 000	0.000	100 999
Comparison of		372,689	3,009 22 750	102,777 800 000
Comparison of	All other varnishes	\$1.305.376	\$149.513	900,000
Comparison of	Drying japans and lacquers	\$1,276,148		\$1,074,113
Paste and dry fillers and putty:     Pounds.     Value.	ridaid inters:	i .	ĺ	1 ' '
Paste and dry fillers and putty:     Pounds.     Value.	Gallons		188,014	(2)
Value. \$420,390 \$390,704 (*)  Value \$25,490,405 \$23,335,015 (*)  Value \$855,159 \$748,391 (*)  Linseed oil:  Gallons \$1,436,964 (*) (*)  Value \$781,731 (*) (*)  Bleached shellac:  Pounds \$1,739,727 (*) (*)  Value \$368,253 (*) (*)	Value	\$189,561	\$125,385	(*)
Value. \$420,390 \$390,704 (*)  Value \$25,490,405 \$23,335,015 (*)  Value \$855,159 \$748,391 (*)  Linseed oil:  Gallons \$1,436,964 (*) (*)  Value \$781,731 (*) (*)  Bleached shellac:  Pounds \$1,739,727 (*) (*)  Value \$368,253 (*) (*)	Pounds	15.096.290	14.584.498	
Politids	Value	\$420.390	\$390.704	
Politids	Water paints, dry:			
	Pounds	25,490,405	23,335,015	(2)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Value	\$856,159	\$748,391	(*)
Value.     \$781,731     (2)     (2)       Bleached shellac:     1,739,727     (2)     (2)       Pounds.     1,739,727     (2)     (2)       Value.     \$368,253     (2)     (2)	Gallons	1.436 064	(2)	(2)
Bleached shellac:     1,739,727     (2)     (2)       Pounds.     1,739,727     (2)     (2)       Value.     \$368,253     (2)     (2)	Value	\$781.731	(2)	(2)
Pounds. 1,739,727 (2) (2) Value. \$368,253 (2) (2)	Bleached shellac:		, ,	
2, 22, 24, 24, 24, 24, 24, 24, 24, 24, 2	Pounds	1,739,727	(2)	(2)
All other products \$3,331,522 \$4,528,087 \$1,034,372	Value	\$368,253	(2)	(*)
production in the production of the production o	All other products	\$3.331 522	\$4,528.087	\$1.034.372
l l	The state of the s	20,001,002	1 2,000,001	

<sup>&</sup>lt;sup>1</sup> Includes white lead in oil.

A larger value was reported for oleoresinous varnishes at each of the three censuses than for any other single product presented in the table, though in 1909 the combined value of white lead dry and white lead in oil was slightly greater. The value of this class of varnishes was considerably less in 1909, however, than in 1899, a decrease of 10.6 per cent between 1899 and 1904 having been only partly made up by an increase (3.7 per cent) between 1904 and 1909. The quantity and value of white lead, both dry and in oil, manufactured in New York in 1909 formed 22.6 per cent and 23 per cent, respectively, of the corresponding totals for this product in the United States. Other leading products, in the order of their importance in 1909 as measured by value, were paints in oil, already mixed for use, the pigments classified as dry colors, and paints in oil in paste. Of these five leading products, all except dry colors show a gain from 1904 to

1909 in value of output, and all except the paints in oil show an increase in quantity. The largest absolute increase in value from 1904 to 1909 was that of \$753,273, or 20.6 per cent, in the value of white lead dry and in oil combined, while the most striking increase in quantity was that of 19,959,910 pounds, or 80.9 per cent, in the output of dry colors. The most pronounced relative increase in quantity was reported for barytes, and in value, for pyroxylin varnishes.

In addition to the various products reported in the preceding table for 1909, paint and varnish to the value of \$806,814 were manufactured as secondary products by 15 establishments included under other classifications. These products consisted mainly of bleached shellac, drying japans and dryers, and paints in oil, ready for use. There were also 43,431,580 pounds of dry white lead, 737,214 gallons of varnish, and 170,249 pounds of lead oxide manufactured and used in further processes of manufacture within the paint and varnish establishments reporting.

During 1909, 36,203 tons of pig lead, valued at \$2,733,997; 46,520 gallons of grain alcohol, valued at \$23,381; and 101,669 gallons of wood alcohol, valued at \$49,906, were used in the manufacture of paint and varnish in the state.

Leather, tanned, curried, and finished.—The quantity and cost of the different kinds of materials used in this industry during the last three census years are shown in the following table:

MATERIAL.	1909	1904	1899
Total cost	\$20, 940, 733	\$16,274,903	\$17, 424, 300
Hides:	1 4 000 105	1 500 550	0.000.100
Number	1 1,639,467	1,569,750	2,000,132 \$8,969,164
Cost	\$10,473,699	\$7,804,223	\$6,909,104
Skins: Number	9,781,180	9,962,459	10,516,312
Cost	\$6,951,107	\$4,969,796	\$4,893,981
	ψο, υσα, α···	\$ 1,000,.00	02,000,000
Calf and kip— Number	2, 107, 584	1,135,591	1,048,722
Cost	\$2,751,764	\$1,083,158	\$1,126,963
Sheep			
Number	6,491,352	7, 124, 420	6,665,810
Cost	\$3,214,723	\$2,708,110	\$1,945,142
All other—		# F00 440	0.001.700
Number	2 1, 182, 244	1,702,448	2,801,780
Cost	\$984,620	\$1,178,528	\$1,821,876 \$418,080
Rough leather, purchased	\$361,413	\$282,738	Φ±10,000
Sides	16,934	52, 172	111,300
Number	\$83,570	\$180, 147	\$393,580
All other		102,591	24,500
An Omer	211,040	102,001	21,000
All other materials	\$3, 154, 514	\$3,218,146	\$3,143,075
	] -,, -		1

<sup>&</sup>lt;sup>1</sup> Cattle hides only.

Hides show a greater increase in cost during the five-year period 1904–1909 than any other of the materials used, namely, \$2,669,476, or 34.2 per cent, but the number used increased only 69,717, or 4.4 per cent. The cost of hides constituted 50 per cent of the total cost of all materials used in 1909, 48 per cent in 1904, and 51.5 per cent in 1899. Eight and nine-tenths per cent of the hides tanned in the United States during 1909 were tanned in New York establishments. The largest relative increase in number from 1904 to 1909 is shown for calf and kip skins, while the largest decrease is shown for sheepskins.

<sup>&</sup>lt;sup>2</sup> Not reported separately.

<sup>&</sup>lt;sup>2</sup> Includes horsehides.

The following table shows the quantity and value of the different products of this industry in 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899
Total value	\$27, 642, 383	\$21,642,945	\$23,205,991
LeatherSole Upper, other than colt, calf, or kip	25, 859, 801 5, 933, 249	19, 265, 208 4, 027, 072	21,883,703 4,655,818
Horsehides and colt skins—	\$5,825,075	\$4,901,639	\$6,903,779
Value Calf and kip skins, tanned and fin-	91, 887 \$285, 213	50,019 \$159,998	16 \$76
NumberValue	2, 106, 084 \$3, 779, 513	1, 122, 832 \$1, 662, 513	990, 213 \$1,442,322
Number	565,831 \$407,876	1, 033, 155 \$922, 035	1,801,518 \$1,898,957
Sheepskins, tanned and finished— Number Value. Harness—	3,469,260 \$2,406,610	4, 768, 772 \$3, 049, 763	2,997,036 \$1,360,885
Sides	237, 198 \$1,648,537	194, 182 \$995, 947	146,341 \$765,500
ture— Hides Value Trunk, bag, and pocketbook Glove Sold in rough All other	\$3,684 \$851,055 \$376,978 \$2,074,701 \$599,947 \$1,671,047	31,637 \$223,025 \$109,834 \$1,218,868 \$836,408	9,061 \$57,177 \$379,586 \$1,860,388 \$1,130,248
All other products. Work on materials for others.	\$597,502 \$1,185,080	\$1, 158, 106 \$1, 320, 483 \$1, 057, 254	\$1,428,967 \$278,638 \$1,043,650

The value of upper leather (exclusive of colt, calf, and kip skins) constituted a larger proportion of the total value of all products for the industry at the censuses of 1904 and 1899 than that of any other product, but by 1909 sole leather had taken the lead in this respect. For the five-year period 1904-1909, tanned and finished calf and kip skins show the largest relative increase both in number and in value-87.6 per cent and 127.3 per cent, respectively. During the same period both the number and the value of the tanned and finished goatskins and sheepskins decreased. In 1909 New York contributed 17.6 per cent of the total number of tanned and finished sheepskins, and 11.1 per cent of the tanned and finished calf and kip skins reported for the United States. In addition to that shown in the above table, leather valued at \$2,357,587 was tanned and curried during 1909 by establishments which used it in further manufacture.

The amount charged for tanning, currying, or finishing for others shows a slight increase both from 1899 to 1904 and from 1904 to 1909. The estimated value, after treatment, of the stock treated on a custom basis for others than tanners, curriers, or finishers during 1909 was \$7,286,944. If this amount be added to the total value of products, \$27,642,383, reported for the industry, less the \$1,185,080 received for work performed, the result, \$33,744,247, will represent fairly the importance of the leather industry in the state.

The statement which follows gives the quantity and estimated value of the products tanned, curried, or

finished by the leather-manufacturing establishments of the state during the years 1909 and 1904 for others who were not tanners, curriers, or finishers:

PRODUCT.	1909	1904
Total estimated value of stock after treat- ment	\$7, 286, 944	\$5,640,448
Hides— Number Estimated value Skins—	18,271 \$169,189	25, 652 \$40, 836
Number Estimated value Curried or finished:	1,827,426 \$1,637,551	4,130,992 \$2,438,050
Sides— Number Estimated value Splits—	\$25 \$6,600	
Number Estimated value Skins—	172,800 \$201,600	3,765 \$5,647
Number Estimated value.	5,001,599 \$5,272,004	4,346,862 \$3,155,915

The number of hides tanned for others, exclusive of tanners, curriers, and finishers, in 1909 was less than three-fourths the number so treated in 1904, and the number of skins less than one-half the number in 1904. The number of sides, splits, and skins curried or finished, however, increased.

Soap.—The quantity and cost of the principal materials used in the manufacture of soap during 1909 and 1904 are shown in the following table:

MATERIAL.	1909	1904
Total cost	\$15,612,382	\$8,410,867
Pounds. Cost. Cocoanut and palm-kernel oil:		105, 415, 189 \$4, 133, 261
Gallons. Cost. Cottonseed oil		907, 794 \$406, 762
Gallons. Cost. Rosin:	4,237,007 \$1,703,923	1,786,255 \$537,969
Pounds	43, 642, 265 \$939, 230	34, 527, 676 \$637, 347
PoundsCostCaustie soda:	9,825,800 \$429,904	3, 495, 053 \$139, 489
Tons. Cost. Soda ash:	11,006 \$449,716	13,928 \$569,950
Tons. Cost.	24,958 \$463,152	12,648 \$236,517
Fuel and rent of power	\$290,146 \$4,609,088	\$179,206 \$1,570,366

Tallow, grease, and other fats, which at both censuses constituted the most important item, as measured by cost, among the materials used, show for the five-year period a decrease of 7,331,337 pounds, or 7 per cent, in quantity, but an increase of \$1,710,704, or 41.4 per cent, in cost. This class of materials represented 37.4 per cent of the cost of all materials used in 1909 and 49.1 per cent in 1904. With the exception of caustic soda, each of the remaining items shows an increase for the five-year period in both quantity and cost. The largest actual increase in cost reported for any class of materials was that of \$3,038,722 for the items included under the head of "All other

materials." Cottonseed oil and foots made the most pronounced relative gains in both quantity and cost, the increase in each case amounting to more than 100 per cent in quantity and to more than 200 per cent in value.

The following table gives the quantity and value of hard and soft soap and of glycerin reported for the last two census years, together with the value of the other products reported:

PRODUCT.	1909	1904
Total value	\$23, 582, 977	\$13,401,726
Hard soap: Pounds Value	373, 529, 337 \$18, 094, 061	297, 377, 794 \$12, 440, 255
Soft soap: PoundsValue	14,607,378 \$171,702	16,427,585 \$114,107
Glycerin: PoundsValue	8,955,960 \$1,212,606	3,432,515 \$383,885
All other products	\$4,104,608	\$463,479

The quantity of hard soap, which increased 76,151,543 pounds, or 25.6 per cent, during the five years covered by the table, represented 21.5 per cent of the total reported for the United States in 1909 by establishments classified as engaged in the soap industry, and 21.9 per cent in 1904. Soft soap, the second largest product in point of quantity, shows a decrease of 1,820,207 pounds, or 11.1 per cent, in this respect, but the value increased materially. Glycerin increased 160.9 per cent in quantity and 215.9 per cent in value. The largest relative gain in value is shown for "All other products," which in 1909 consisted largely of perfumes, paints, flavoring extracts, and baking powders.

In addition to the products shown in the above table, soap valued at \$181,502 was manufactured during 1909 by 16 establishments which were classified under other industry designations. These products consisted mainly of 1,061,481 pounds of hard soap, of which 729,782 pounds was toilet soap.

Canning and preserving.—It was not until about 1850 that canning and preserving, as a factory industry, assumed commercial prominence. New York was one of the first states in which it was developed, and the growth of the industry in that state has been remarkable. Of the 790 establishments reported in 1909, 674 were engaged primarily in canning and preserving fruits and vegetables; 101 in the manufacture of pickles, preserves, and sauces; and 15 in canning and curing fish.

The quantity and value of the different products for 1909, 1904, and 1899 are shown in the next table.

The case, which is used as the unit of measure, consists of 24 standard-size cans—No. 2 (also called 2-pound cans) for beans, corn, peas, berries, cherries, and plums, and No. 3 (also called 3-pound cans) for all other fruits and vegetables. Where the output of fruits and vegetables has been reported in other forms

by the canneries, the quantities so reported have been reduced to standard cases in the table.

PRODUCT.	1909	1904	1899
Total value	1 \$19,039,735	2 \$16, 821, 221	\$12,506,329
Canned vegetables: Cases Value	3,455,991 \$6,271,904	3, 922, 068 \$6, 836, 451	2,670,275 \$4,410,251
Beans— Cases Value	569,176 \$1,024,065	551,081 \$1,055,253	274, 932 \$448, 314
Corn— Cases Value	771,475 \$1,197,999	1, 444, 344 \$2, 272, 682	1, 341, 352 \$1, 925, 496
Succotash— Cases Value	68,673 \$174,119		12,324 \$27,506
Peas— Cases	1,438,059 \$2,681,366	1,509,629 \$2,598,291	751,535 \$1,473,912
Pumpkin— Cases	103, 127	45,063	24,769
Value Tomatoes— Cases	\$150,974 347,714	\$72,780 184,894	\$35,370 254,616
Value All other— Cases	\$657,375 157,767	\$389,036 187,057	\$483, 112 10, 747
Value Canned fruits: Cases	\$386,006 900,870	\$448,409 585,264	\$16,541 655,261
Value Apples—	\$2, 182, 455	\$1,207,760	\$1,347,390
Cases Value Berries—	429,180 \$753,231	259, 296 \$354, 817	320, 678 \$560, 048
Cases	214,134 \$596,130	150,730 \$372,171	155, 396 \$321, 759
Cases Value Peaches—	90,445 \$323,803	46, 160 \$133, 814	21, 207 \$71, 881
Cases Value	41,727 \$141,142	10,060 \$39,399	29,111 \$72,591
Pears— Cases Value	51,686 \$216,858	51,309 \$172,944	58,036 \$226,082
Plums— Cases Value	52,853 \$76,449	41, 195 \$58, 839	70,800 \$94,879
All other— Cases Value	20,845 \$74,842	26,514 \$75,776	33 \$150
Dried fruits: Pounds. Value.	33,722,573 \$2,346,875	31,543,381 \$1,346,040	21,542,897 \$1,275,109
Apples— Pounds	33, 652, 115 \$2, 333, 137	31, 458, 702	21,542,897
Value All other— Pounds	70, 458 \$13,738	\$1,331,895 84,679 \$14,145	\$1,275,109
Value Fish: Pounds	\$13,738 6,873,885	,	3,644,310
Value Canned fish, all kinds— Pounds.	\$1,179,700	6, 381, 124 \$896, 342	3,644,310 \$175,392 166,896
Value Smoked_fish	121,256 \$75,777	407, 896 \$37, 826	\$23,025
PoundsValue Herring—	4, 180, 092 \$780, 103	4, 623, 080 \$777, 859	2,309,600 \$101,082
PoundsValueSalmon—	335,800 \$29,026	466,000 \$34,534	1,694,000 \$17,040
PoundsValue	2,595,614 \$486,910	1,880,600 \$319,620	97,000 \$13,900
Sturgeon— Pounds Value	498, 237 \$152, 286	1,523,500 \$332,350	454,000 \$66,110
All other— PoundsValue	750,441	752, 980 \$91, 355	64,600 \$4,032
Salted fish— Pounds	2,572,537	1, 350, 148	1, 167, 814 \$51, 285
Value Herring— Pounds	693,786	\$80, 657 812, 830 \$37, 757	1,046,600
Value	. \$94,681	\$37,757 537,318	\$42,500 121,21
Value		\$42,900	\$8,78

¹ Does not include canned vegetables to the value of \$79,458, dried fruit to the value of \$28,271, and salted fish to the value of \$2,195, reported by establishments engaged primarily in industries other than canning and preserving.
² Excluding statistics for 1 establishment, to avoid disclosure of individual operations.

With the exception of canned vegetables, each of the main groups of products shows a substantial gain from 1904 to 1909 both in quantity and in value. The output of canned vegetables, which constitute the most important group, as measured by value, shows a decrease of 466,077 cases, or 11.9 per cent, in quantity and \$564,547, or 8.3 per cent, in value. Measured by value, the most important single product in 1909 was canned peas, the value of which formed 14.1 per cent of the aggregate value of all products. The value of each of the vegetable products shown separately, with the exception of beans and corn, increased from 1904 to 1909. The fruits included under the head of "All other" were the only canned fruits to show a decrease in either quantity or value in 1909 as compared with 1904, while the largest absolute increase in each item was reported for apples.

Dried apples show an increase of 2,193,413 pounds, or 7 per cent, in quantity and \$1,001,242, or 75.2 per cent, in value from 1904 to 1909. The production of dried apples in New York during 1909 represented 75.5 per cent of the total output of this product for the United States and 75.3 per cent of its value.

The quantity of smoked fish decreased during the five-year period 1904–1909, owing chiefly to the decided decrease of 1,025,263 pounds in smoked sturgeon. More salmon was smoked in 1909 than any other variety of fish. The increase in the quantity and value of salted fish from 1904 to 1909 is noteworthy.

New York ranked first among the states of the Union in 1909 in the output of dried and of canned apples, second in that of canned peas, third in that of canned beans, and sixth in that of canned corn.

Agricultural implements.—Although the fiftieth industry in the state when measured by value of products, this industry is of considerable interest owing to the importance of agriculture in New York. The following table gives the value of the different general groups of implements manufactured during 1909, 1904, and 1899:

PRODUCT.	1909	1904	1899 .
Total value Implements of cultivation Seeders and planters Harvesting implements Seed separators All other products, including amount received for repair work.	247,357 5,950,777 790,494	\$13, 045, 891 2, 545, 947 1, 800, 182 5, 841, 389 461, 814 2, 396, 559	\$10, 537, 254 10, 071, 310 465, 944

Harvesting implements formed the most important single group, as measured by value, in 1909 and 1904, and represented 39.7 per cent and 44.8 per cent of the totals for the respective census years. With the exception of seeders and planters, each of the different groups shows an increase in value for the five-year period, the largest being for the items included under the head of "All other products," which nearly doubled in value.

Gloves and mittens, leather.—The next table shows the number of pairs and the value of the different kinds of leather gloves, mittens, and gauntlets manufactured in New York in 1909, 1904, and 1899.

Although the number of pairs of gloves, mittens, and gauntlets manufactured decreased slightly from 1904 to 1909, their value increased \$4,328,565, or 44.2 per cent, owing largely to a general rise in prices. The output of men's unlined gloves, mittens, and gauntlets, which formed the most important single class at each of the last three censuses, shows a decrease from 1904 to 1909 of 74,509 dozen pairs, or 8.4 per cent, although its value shows an increase of \$2,351,406, or 54.1 per cent. The output of women's and children's unlined gloves, mittens, and gauntlets, the class second in importance in 1909, increased 181,472 dozen pairs, or 124.7 per cent, and its value \$2,085,202, or 180.3 per cent, during the same period. Of the total output of men's gloves, mittens, and gauntlets reported in 1909, 63.7 per cent, representing 70 per cent of the value, were unlined, the corresponding percentages for women's and children's gloves, mittens, and gauntlets being 57.3 and 71.2, respectively.

PRODUCT.	1909	1904	1899
Total value	\$14,336,365	\$9, 946, 443	\$10, 854, 221
Dozen pairs Value Men's—		1, 881, 194 \$9, 794, 075	1 1, 721, 831 \$10, 507, 789
Dozen pairsValueLined—	1, 279, 560	1,563,366	1,280,595
	\$9, 568, 409	\$7,810,971	\$7,731,868
Dozen pairs	464, 817	674, 114	643,440
	\$2, 868, 551	\$3, 462, 519	\$3,547,825
Dozen pairsValue	814,743	889, 252	637, 155
	\$6,699,858	\$4, 348, 452	\$4, 184, 043
Dozen pairs Value Lined—	570, 878	317, 828	424, 142
	\$4, 554, 231	\$1, 983, 104	\$2, 672, 995
Dozen pairs	243, 861	172, 283	193, 540
	\$1,312, 817	\$826, 892	\$1, 015, 744
Dozen pairs	327, 017	145, 545	230,602
	\$3, 241, 414	\$1, 156, 212	\$1,657,251
All other products	<b>\$</b> 213, 725	<b>\$</b> 152,368	\$346,432

<sup>1</sup> Includes 17,094 dozen pairs of gauntlets, valued at \$102,926, not distributed by kinds.

The following table gives, for 1909, a more detailed classification, showing for each class the total value of the output and the number of pairs made from the different kinds of leather:

		DOZEN PAIRS.			
PRODUCT,	Value.	Total.	Lamb or sheep skin.	Kid.	All other.
Total valueGloves, mittens, and	\$14,336,365				
gauntlets Dress Men's—	14,122,640 11,418,955	1,850,438 1,287,618	1,408,620 1,046,654	67, 399 66, 464	374, 419 174, 500
Lined Unlined Women's and children's—	1,981,224 5,405,690	282,069 575,097	198,349 485,841	4,609 31,197	79, 111 58, 059
Lined Unlined Working Men's—	939,064 3,092,977 2,703,685	142,511 287,941 562,820	118,639 243,825 361,966	2,956 27,702 935	20, 916 16, 414 199, 919
Lined Unlined Boys'—	887,327 1,294,168	182,748 239,646	121,592 129,735	935	61,156 108,976
Lined Unlined	373,753 148,437	101,350 39,076	80,310 30,329		21,040 8,747
All other products	213,725				

Of the total output of leather gloves, mittens, and gauntlets in 1909, 76.1 per cent were manufactured from lambskin or sheepskin, 3.6 per cent from kid, and 20.2 per cent from other kinds of leather. Of the dress gloves, about 80 per cent were lambskin or sheepskin, and about 5 per cent were kid, while of the working gloves, mittens, and gauntlets nearly two-thirds were sheepskin or lambskin, less than 1 per cent were kid, and the remainder were made of other kinds of leather.

Carriages and wagons and materials.—The number and value of the different kinds of horse-drawn vehicles manufactured during the census years 1909, 1904, and 1899 are shown in the following table:

PRODUCT.	1909	1904	1899	
Total value.	\$13, 292, 531	\$14,643,510	\$14,002,904	
Carriages (family and pleasure):	25, 474	42, 249	58,176	
Number Value	\$2,344,487	\$4,550,893	\$4,939,609	
Wagons:	*,,		. , ,	
Number	21,937	19,879	22,775	
Value	\$2,932,813	\$2,448,670	\$2, 186, 935	
Business-		10 707	/1\	
Number	17,747 \$2,605,589	12,797	(1) (1)	
Value Farm—	\$2,000,089	(1)	(-)	
Number	4,026	6,999	(1)	
Value.	\$253,942	(1)	(1) (1)	
Government, municipal, etc.—	Ç200, 012		( )	
Number	164	83	(1) (1)	
Value	\$73,282	(1)	(1)	
Public conveyances:			250	
Number	219	742	656	
Value	\$187,936	\$518,469	\$489,142	
Sleighs and sleds: Number	10,823	19, 433	14,500	
Volume	\$349,643	\$592,768	\$412.075	
ValueAll other products, including parts and	\$649,040	guaz, 100	ψ11±,010	
repair work	\$7,477,652	\$6,532,710	\$5,975,143	
topour nousestantini	,,	1,,	1	

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

In view of the extraordinary development of the automobile industry, particularly during the last five years, it is but natural that the output of horse-drawn vehicles should decrease materially. In 1899, 96,107 such conveyances were manufactured in New York by the carriage and wagon establishments reported, but the number had decreased to 82,303 in 1904, and to 58.453 in 1909. The value of the vehicles made, however, increased 1 per cent from 1899 to 1904, although from 1904 to 1909 it decreased 28.3 per cent. During the five-year period 1904-1909 the only kinds of vehicles showing an increase in number were business wagons and government and municipal wagons, while the largest decrease was in the number of family and pleasure carriages. The number of sleighs and sleds made decreased 8,610 and their value \$243,125 during the same period. In point of numbers, family and pleasure carriages were the most important of the different classes, but their value in 1909 was exceeded by that reported for business wagons.

Shipbuilding, including boat building.—This classification includes the operations of shipyards building or repairing steel and wooden steam, sail, or unrigged vessels, yachts, motor boats, rowboats, and canoes, and the manufacture of masts, spars, oars, and rigging.

The number and gross tonnage of the different classes of vessels launched in 1909, 1904, and 1899 are shown in the following statement:

	1909		1	904	1	1899
PRODUCT.	Num- ber.	Gross tonnage.	Num- ber.	Gross tonnage.	Num- ber.	Gross tonnage.
Vessels of 5 gross tons and over launched during the year.  Steel	309 16 7 2 293 23 76 15 179 790	60. 152 7, 332 3, 963 100 3, 269 52, 820 3, 565 1, 190 678 47, 387	361 24 16 7 1 337 36 64 27 210 453	104, 495 14, 068 8, 573 4, 605 800 90, 427 5, 759 706 451 83, 511	393 17 14 3 376 87 85 204 552	86, 310 11, 084 7, 582 3, 502 75, 226 4, 817 1, 400 69, 009

The foregoing table shows that the total gross tonnage as well as the average gross tonnage of the vessels launched, not including power boats of less than 5 tons gross register, was greater in 1904 than in either 1909 or 1899, and that the total number of vessels launched was smaller in each succeeding census year, the decrease being principally in the number of wooden vessels. Increases from 1904 to 1909 are shown for the number of steel motor and unrigged vessels and for wooden motor boats. A considerable increase is also shown in the number of power boats of less than 5 tons gross register during the same period.

The value of the work done upon vessels and boats of all kinds during 1909, 1904, and 1899 is shown in the following table:

CLASS OF WORK.	1909	1904	1899
Total value  Work done during the year on new vessels and boats.  Vessels of 5 gross tons and over Boats of less than 5 gross tons. Power boats, all kinds. Sailboats, rowboats, scows, etc. Repair work. All other	3, 294, 121 683, 813 424, 270 259, 543 6, 931, 117	\$11, 265, 303 4, 181, 772 3, 607, 085 574, 087 378, 635 196, 052 6, 726, 959 356, 572	\$8, 647, 371 3, 281, 815 2, 627, 113 654, 702 454, 643 200, 059 4, 857, 916 507, 640

Increases are shown for the decade 1899–1909 for all of the items presented in the table, with the exception of the value of the work done on power boats of less than 5 tons gross register. From 1904 to 1909 there was an increase in every item except the value of work done on new vessels of 5 tons gross register and over, which shows a decrease of 8.7 per cent.

The statistics presented in the two preceding tables do not include those for the United States navy yard in Brooklyn, which launched 5 steam cutters having a total displacement of 68 tons, and did work upon 1 steel vessel of 21,825 tons displacement and 6 small boats having a total displacement of 21 tons, and various repair work, the whole aggregating \$7,032,416 in value.

Wire.—This classification includes only those mills which draw wire from purchased wire rods. The figures for the wire departments of rolling mills which roll the wire rods, which would otherwise be presented in a supplementary note, can not be shown without disclosing the operations of individual establishments. The tonnage and cost of the principal materials used in 1909 were as follows:

MATERIAL.	1909
Total cost Wire rods: Steel—	\$7,823,518
Tons. Cost. Copper—	14,850 \$561,362
Tons. Cost. Other metal (fron. brass. etc.)—	22, 195 \$6, 285, 465
Tons. Cost. Purchased wire:	\$62,150
Tons. Cost.	\$77,875
Fuel	\$185,851 \$650,815

Comparative figures for 1904 and 1899 are not available. A total of 37,412 tons (2,000 pounds) of wire rods, costing \$6,908,977, were used, copper rods contributing 59.3 per cent of the tonnage and 91 per cent of the cost.

The tonnage and value of the main products reported for the industry in 1909 were as follows:

PRODUCT.	1909
Total value. Wire and manufactures of wire: Steel and iron—	\$10,065,431
Tons	14,632 \$1,893,995
Tons. Value.  Manufactures of wire, nails, woven wire, rope, etc.—	\$1,338,220
Tons. Value.  Copper wire—	2, 481 \$555, 775
Tons. Value Other metal (chiefly brass) wire and manufactures of wire—	22, 375 \$7, 653, 209
Value.	319 \$175,593
All other products	<b>\$</b> 342, 634

Of the total quantity of wire and manufactures of wire shown in the above table, 59.9 per cent was copper, 39.2 per cent was iron and steel, and ninetenths of 1 per cent was made from other metals. Of the total value of wire products, \$9,722,797, the proportions contributed by each class were 78.7 per cent, 19.5 per cent, and 1.8 per cent, respectively. The seven wire mills in the state in 1909 reported 703 wiredrawing blocks, with an annual capacity of 39,519 tons.

Laundries.—Statistics for steam laundries are not included in the general tables or in the totals for

manufacturing industries. There were 508 such establishments in the state of New York in 1909, of which 126 were in New York City; 25 in Buffalo; 23 in Syracuse; 16 in Rochester; 15 in Troy; 12 in Utica; 10 each in Albany, Binghamton, and Poughkeepsie; 7 each in Auburn, Schenectady, and Watertown; 6 each in Elmira and Jamestown; and 5 in Oswego. No other incorporated place had as many as 5 steam laundries. The following statement summarizes the statistics:

_		~ 400 675 67 600 1
Number of establishments		508
Persons engaged in the industry		14,063
Proprietors and firm members		523
Salaried employees		962
Wage earners (average number)	• • • • • • • • • • • • • • • • • • • •	12, 578
Primary horsepower		
Capital	: 	\$7, 316, 808
Expenses		9, 483, 116
Services.	· · · · · · · · · · · · · · · · · · ·	6, 081, 311
Materials Miggelleneous		
Miscellaneous		1, 545, 102
Amount received for work done		11, 446, 663

The most common form of ownership was the individual, with 292 establishments. The firm and corporate forms of ownership were represented by 105 and 111 establishments, respectively. One hundred and forty-five establishments had receipts for the year's business of less than \$5,000; 222, receipts of \$5,000 but less than \$20,000; 119, receipts of \$20,000 but less than \$100,000; and 22, receipts of \$100,000 or over.

The number of wage earners employed each month and the percentage which this number represented of the greatest number employed in any month were as follows:

	WAGE EA	RNERS.		WAGE EARNERS.			
MONTH.	Number.	Per cent of maxi- mum.	MONTH.	Number.	Per cent of maxi- mum.		
January February March April May June	12, 129 12, 160 12, 107 12, 155 12, 312 12, 702	93. 0 93. 2 92. 8 93. 2 94. 4 97. 4	July August September October November December	12,899	99.7 100.0 98.9 98.0 97.6 98.9		

The different kinds of primary power, the number of engines or motors, and the horsepower used in 1909 are shown in the following tabular statement:

KIND.	Number of en- gines or motors.	Horse-power.
Primary power, total. Owned: Steam. Gas. Water wheels. Water motors. Rented:	321	12,637 9,614 528 51 15
Electric Other	260	1,437 992

The kind and amount of fuel used are shown below:

KIND.	Unit.	Quantity.
Anthracite coal. Bituminous coal. Coke. Wood Oil. Gas.	Tons Tons Cords Barrels	29,547 2,842 796 618

Custom sawmills and gristmills.—Statistics for custom sawmills and gristmills are not included in the general tables or in the totals for manufacturing industries, but are presented in the next summary.

	Custom sawmills.	Custom gristmills.
Number of establishments. Persons engaged in the industry. Proprietors and firm members. Salaried employees. Wage earners (average number) Primary horsepower.	452 243 3 206	403 628 462 4 162 14,078
Capital Expenses Services Materials Miscellaneous Value of products	\$423,786 99,303 76,613 7,090 15,600 207,624	\$1,278,100 2,853,010 69,104 1 2,745,335 38,571 1 3,246,948

 $<sup>^{\</sup>rm 1}$  Includes estimate of all grain ground. A similar estimate for the value of lumber sawed by custom sawmills is impracticable.

# Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899. THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

			PERSON	NS ENGA	GED IN IN	Dustry.							77-1
industry.	Census	Number of establishments.	Total.	Pro- prietor and firm mem-	Salaried employ- ees.	Wage earners (average number)		Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manu- facture.
	-		-	bers.		- Indiniser)			1	Expressed	in thousan	ds.	
STATE—All industries	1909 1904 1899	44,935 37,194 35,957	1,203,241 996,725	47,569 41,766	151,691 98,012 68,030	1,003,981 856,947 726,909	1,997,662 1,516,592 1,099,931	\$2,779,497 2,031,460 1,523,503	\$186,032 111,145 76,740	\$557, 231 430, 015 337, 324	\$1,856,904 1,348,603 1,018,377	\$3,369,490 2,488,346 1,871,831	\$1,512,586 1,139,743 853,454
Agricultural implements	1909 1904 1899	57 75 87	6,851 7,279 6,290	41 66 80	1,093 934 659	5,717 6,279 5,551	10,744 12,019 8,228	26, 109 23, 436 20, 116	1,012 809 676	3,270 3,241 2,797	6,415 5,678 4,825	14,971 13,046 10,537	8,556 7,368 5,712
Artificial flowers and feathers and plumes.	1909 1904 1899	319 149 157	9,813 3,740 4,477	417 205 229	903 210 229	8,493 3,325 4,019	215 106 80	7,982 1,865 2,981	1,025 175 227	3,452 1,102 1,257	12, 258 1, 463 2, 199	21,162 3,997 5,016	8, 904 2, 534 2, 817
Artificial stone	. 1909 1904 1 1899	176 26	967 656	185 20	71 54	711 582	1,122 688	1,429 629	60 71	390 364	523 282	1,357 930	834 648
Automobiles, including bodies and parts.	1909 1904 1899	113 35 15	11,610 2,101	59 21	1,690 231 56	9,861 1,849 288	9,398 1,254	25,102 3,347 639	1,604 231 57	7,016 1,227 166	14,908 1,907 173	30,980 4,260 456	16,072 2,353 283
Babbitt metal and solder	1909 1904 1899	24 15 11	349 219 251	18 27 19	139 64 29	192 128 203	191 84	1,918 1,110 1,198	181 68 33	149 86 116	5,071 4,307 2,719	6, 123 4, 966 3, 077	1,052 659 358
Bags, other than paper	1909 1904 1899	21 17 18	1,127 797 714	14 15 17	113 60 52	1,000 722 645	751 416	1,888 867 678	149 83 111	330 230 204	4,116 3,012 1,698	4, 986 3, 648 2, 250	870 636 552
Bags, paper	. 1909 1904 1899	20 12 16	1,157 604	12 9	113 60 65	1,032 535 508	1,046 369	3,281 4,774 1,787	264 111 80	426 215 159	3,933 1,792 1,119	5,613 2,858 1,695	1,680 1,068 576
Baskets, and rattan and willow ware.	1909 1904 1899	169 194 180	1,486 1,851 1,298	179 217 208	70 65 31	1,237 1,569 1,059	1,882 1,967	1,181 1,119 693	62 56 23	583 587 314	820 651 416	1,947 1,949 1,002	1,127 1,298 586
Belting and hose, leather	1909 1904 1899	28 25 21	924 997 693	22 22 18	298 216 117	604 759 558	1,988 908	4,442 3,669 2,363	365 287 134	395 424 320	4,101 3,764 2,400	6, 420 5, 749 3, 293	2,319 1,985 893
Bicycles, motorcycles, and parts	1909 1904 1899	20 32 66	636 466 2,427	15 28 57	63 28 267	558 410 2,103	406 612	853 .658 3,327	74 26 216	345 206 988	522 347 1,856	1,165 759 3,842	643 412 1,986
Blacking and cleansing and polishing preparations.	1909 1904 1899	88 65 58	1,188 826 745	58 50 67	472 223 181	658 553 497	539 565	2,232 1,260 904	561 280 222	297 214 206	1,827 1,418 948	3,836 2,719 1,913	2,009 1,301 965
Boots and shoes, including cut stock and findings.	1909 1904 1899	296 259 320	23,815 18,776 18,167	293 292 376	1,895 1,066 1,136	21,627 17,418 16,655	10, 456 6, 571	26,048 15,571 12,959	2,254 1,032 1,067	10,669 7,873 6,431	28,975 22,400 17,309	48,186 37,521 28,117	19,211 15,121 10,808
Boxes, cigar	1909 1904 1899	56 57 66	1,725 1,994 1,331	67 68 76	127 115 57	1,531 1,811 1,198	1,180 1,377	1,129 1,134 801	151 132 51	659 754 453	1,126 1,107 760	2,234 2,344 1,537	1,108 1,237 777
Boxes, fancy and paper	1909 1904 1899	315 260 246	12,702 11,821 9,025	351 296 311	813 814 438	11,538 10,711 8,276	4,677 3,573	8,072 6,894 3,725	924 818 365	4,261 3,584 2,617	6,113 5,562 3,347	14,234 12,748 8,380	8,121 7,186 5,033
Brass and bronze products	1909 1904 1899	247 2 184 172	7,596 4,477	218 207	727 388 229	6,651 3,882 3,456	13,397 3,694	16, 591 6, 442 6, 180	1, 024 428 275	3,951 2,088 1,726	13,139 3,868 5,539	22,184 8,045 9,327	9,045 4,177 3,788
Bread and other bakery products	1909 1904 1899	3,978 3,164 3,000	29,039 22,505 19,803	4,212 3,362 3,168	3,470 1,435 2,081	21,357 17,708 14,554	10,319 6,265	38, 573 24, 551 19, 434	2,727 1,099 1,473	13,881 10,172 7,414	52,738 36,389 23,558	86,233 61,034 43,051	33, 495 24, 645 19, 493
Brick and tile	1909 1904 1899	205 192 217	8,630 7,193 7,178	212 213 258	338 243 183	8,080 6,737 6,737	28,734 19,090 18,107	13,864 10,954 8,741	406 281 167	3,958 3,161 2,765	1,717 1,368 1,109	8,433 7,430 5,684	6,716 6,062 4,575
Brooms and brushes	1909 1904 1899	171 176 170	3,419 3,639 3,084	185 207 224	337 250 212	2,897 3,182 2,648	1,630 1,316	3, 926 3, 308 2, 718	406 233 166	1,326 1,220 1,021	3,180 2,849 2,266	6,290 5,402 4,335	3,110 2,553 2,069
Butter, cheese, and condensed milk	1909 1904 1899	1,552 1,766 1,908	4,930 4,804 4,438	1,483 1,721 1,772	581 215 227	2,866 2,868 2,439	16,629 14,322 13,905	12, 216 9, 066 7, 084	507 192 122	1,607 1,485 1,157	36, 161 26, 793 22, 487	42, 458 31, 048 26, 558	6,297 4,255 4,071
Buttons	1909 1904 1899	165 61 49	6,877 3,638 2,800	206 68 48	545 333 105	6,126 3,237 2,647	3,911 1,571 993	6,367 2,034 1,195	647 284 83	2, 462 1, 068 813	4, 168 1, 488 943	9,373 3,849 2,371	5,205 2,361 1,428
Candles	1909 1904 1 1899	9 8	420 392	4 5	69 47	347 340	147 171	1,170 1,331	106 67	136 128	1,099	1,670 1,332	571 399
Canning and preserving	1909 1904 1899	790 2 666 604	8,818 9,171	879 750	864 625 457	7,075 7,796 6,384	12,469 9,741	15,825 12,822 8,159	916 652 411	2,563 2,409 1,791	11,669 9,829 7,735	19, 040 16, 821 12, 506	7,371 6,992 4,771
Carpets and rugs, other than rag	1909 1904 1899	16 12 12	12,272 11,354 8,795	11 8 3	363 269 189	11,898 11,077 8,603	11,901 10,151 7,783	27,528 19,830 12,870	686 328 250	5,870 4,567 3,308	13,315 11,133 7,681	25,606 19,404 15,029	12,291 8,271 7,348
<sup>1</sup> Not reported separa	tely.			cluding s							l operations	10,028	1,020

#### STATISTICS OF MANUFACTURES.

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSONS	ENGAGE	D IN INDU	ISTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
		ments.		mem- bers.	ees.	num- ber).			E	xpressed	in thousand	ls.	9
STATE—Continued.													
Carriages and wagons and materials	1909 1904 1899	610 635 784	7,333 9,234	693 756	524 587 505	6,116 7,891 7,490	10,029 8,524	\$14,576 15,896 14,647	\$731 716 539	\$3,740 4,406 4,009	\$5,809 6,201 5,913	\$13,293 14,644 14,003	\$7,484 8,443 8,090
Cars and general shop construction and repairs by steam-railroad com- panies.	1909 1904 1899	69 65 82	18,003 15,163 13,505		1,549 991 443	$\begin{array}{c} 16,454 \\ 14,172 \\ 13,062 \end{array}$	21, 423 8, 216 6, 593	15,264 11,652 11,245	1,242 836 345	9,802 7,997 6,763	10,088 8,778 8,880	21,726 17,886 16,195	11,638 9,108 7,315
Cars and general shop construction and repairs by street-railroad com- panies.	1909 1904 1899	62 14 17	4,767 3,879 2,606		287 169 47	4,480 3,710 2,559	4,367 1,170	11,304 4,975 6,242	282 168 52	2,832 2,261 1,801	3,180 1,298 1,528	6,640 3,880 3,515	3,460 2,582 1,987
Cars, steam-railroad, not including operations of railroad companies.	1909 1904 1899	4 4 4	2,581 1,738 2,183		194 136 92	2,387 1,602 2,091	3,345 2,470 3,060	5,459 2,891 4,299	209 142 76	1,577 984 1,039	3,426 2,755 3,745	5,940 4,251 5,228	2,514 1,496 1,483
Cement	1909 1904 11899	15 26	1,573 2,384	14 10	116 155	1,443 2,219	24, 385 22, 689	10,168 11,373	167 221	810 1,133	800 1,014	2,409 3,136	1,609 2,122
Chemicals	1909 1904 1899	74 63 92	6,869 5,845 5,057	19 30 23	1,104 848 503	5,746 4,967 4,531	116,197 66,649 33,950	46,465 23,149 22,106	1,623 1,274 719	3,376 2,678 2,303	19,709 12,958 8,670	35,346 23,022 15,994	15,637 10,064 7,324
Chocolate and cocoa products	1909 1904 1899	10 10 11	977 917 785	3 10 15	219 134 151	755 773 619	2,930 1,727	3,088 2,361 1,263	358 167 164	294 259 197	4,167 2,673 1,956	5,823 4,077 2,715	1,656 1,404 759
Clocks and watches, including cases and materials.	1909 1904 1899	27 24 2 27	2,854 2,330 2,869	11 19 17	376 147 131	2, 467 2, 164 2, 721	1,311 1,168	8,044 5,567 5,147	632 235 198	1,385 1,038 1,146	2, 281 2, 235 2, 932	6,184 4,121 4,936	3,903 1,886 2,004
Cloth, sponging and refinishing	1909 1904 1899	25 32 26	729 618 404	32 43 34	93 44 26	604 531 344	329 169	363 221 126	90 40 21	417 359 180	60 26 11	1,030 749 384	970 723 373
Clothing, men's, including shirts	1909 1904 1899	2,983 2,402 2,784	104,567 73,576	4,218 3,349	8,986 5,575 4,338	91,363 64,652 54,458	13,821 7,826	119, 421 72, 170 60, 733	10,949 6,018 4,478	48, 073 29, 723 24, 160	135,327 94,861 75,057	266, 075 187, 409 148, 844	130,748 92,548 73,787
Clothing, women's	. 1909 1904 1899	3,083 2,216 1,673	114,925 84,657 55,335	4,413 3,303 2,466	12,408 7,054 4,152	98, 104 74, 300 48, 717	12,379 6,567 3,914	84, 213 47, 008 29, 283	13,469 6,474 4,098	54, 841 35, 756 21, 988	91,705	272, 518 173, 548 106, 892	124,376 81,843 50,044
Coffee and spice, roasting and grinding.	1909 1904 1899	90 83 87	2,394 2,259 2,239	101 104 143	774 513 555	1,519 1,642 1,541	4,064 4,398	6,829 10,853 9,406	816 599 612	726 831 711	22,711	17, 430 26, 995 22, 471	4,776 4,284 4,340
Coffins, burial cases, and undertakers' goods.	1909 1904 1899	34 29 31	1,556 1,586 1,451	27 26 22		1, 235 1, 323 1, 250	1,813 1,729	3,836 3,159 2,444	327 278 197	665 691 626	1,885	3,785 3,677 2,701	1,714 1,792 1,398
Confectionery	1909 1904 1809	249 199 153	10,116 8,219	237 225	1,309 826 700	8,570 7,168 5,675	7,966 5,031	11,702 8,712 5,512	1,580 908 726	2,495	10,563	18, 237	9, 896 7, 674 5, 425
Cooperage and wooden goods, not elsewhere specified.	1909 1904 1899	364 343 318	3,164 3,739	415 394		2,611 3,229 2,904	4,278 5,186	6,534 4,856 4,263	149	1,520	4,814	7,499	2,685
Copper, tin, and sheet-iron products.		686 495 475	17,153 14,725	663 572		14,689 13,142 9,965	13,108 6,799	37,503 29,603 12,846	1,303	6,724	13,609	27,314	17, 417 13, 705 10, 064
Cordage and twine and jute and linen goods.	1909 1904 1899	16 20 22	6, 230 7, 025	8		5,952 6,742 5,450	15,056 16,060	15,777 14,416 10,312	412	2,417	7,589 10,608 7,516	15,866	5,258
Cordials and sirups	. 1909 1904 1899	38 20 10	493 232 99	36 24 12	29	294 179 62	453 413	1,524 573 188	60	67	684	1,105	1,023 421 141
Cork, eutting	1909 1904 1899	32 19 24	928 540 211	29 21 25	. 23	835 496 167	692 173	979 335 229	31	313 135 66	350	1,817 670 467	320
Corsets	1909 1904 1899	47 35 37	2,787 1,282	46 38		2,436 1,124 1,186	523 214		3   95	378	617	7   1,675	1,058
Cotton goods, including cotton small wares.		47 33 52	11,032 9,031 9,504	13	218	10,663 8,800 9,259	33,354 25,812 24,044	18,47	1 314	1 3,07	1 8,64	5 13,434	4,789
Cutlery and tools, not elsewhere specified.	1	161 161 130	5,070 3,960	152		4,478 3,506	6,571 6,642	6, 841 4, 541 3, 97	L   295	1,78	4   1,25	5 4,579	3,365 3,324 3,740
Dairymen's, poulterers', and apiarists' supplies.	1	31 31	1, 250 1, 147	30	418			4,78 2,28	8 539 3 152			5 4, 213 2 2, 510	3 2,928 0 1,238
Dentists' materials.	1909 1904 1899	15 21 11	379 922 178	:   19	136	767	609		4 177	8 45		1 3,64	9   928

<sup>&</sup>lt;sup>1</sup> Not reported separately.

<sup>&</sup>lt;sup>2</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued. THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

		N	PERSO	NS ENGA	GED IN IN	DUSTRY.							Value
INDUSTRY.	Census	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm mem-	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
•				bers.		ber).			1	Expressed	in thousan	ds.	
STATE—Continued.													
Dyeing and finishing textiles	1909 1904 1899	81 55 42	5,782 3,850 3,274	68 60 50	462 204 107	5,252 3,586 3,117	8,750 7,128 6,885	\$11,259 7,530 6,231	\$765 258 134	\$2,321 1,578 1,425	\$4,139 1,339 1,402	\$9,673 4,362 3,626	\$5,534 3,023 2,224
Dyestuffs and extracts	1909 1904 1899	18 9 19	579 616 623	7 4 7	154 93 78	418 519 538	3,647 2,353	4,145 3,547 2,548	264 148 92	260 317 301	2,867 1,652 1,264	4,505 2,706 2,112	1,638 1,054 848
Electrical machinery, apparatus, and supplies.	1909 1904 1899	217 175 134	22,819 18,064 11,594	95 95 111	3,752 1,668 1,113	18,972 16,301 10,370	53,813 33,059 11,049	60, 427 30, 643 17, 697	4,552 1,730 904	12,479 9,287 5,667	27, 483 17, 846 12, 539	49, 290 35, 348 22, 695	21,807 17,502 10,156
Electroplating	1909 1904 1899	130 106 99	878 895	155 132	71 46 41	652 717 758	842 697	450 413 602	59 53 34	421 409 362	242 364 403	1,116 1,185 1,150	874 821 747
Emery and other abrasive wheels	1909 1904 1899	10 3 3	894 44 17	3 1 1	172 15	719 28 16	960 148	2, 414 123 45	253 13	385 8 11	1,080 20 36	2,561 74 74	1,481 54 38
Fancy articles, not elsewhere specified.	1909 1904 1899	182 145 195	4,234 3,282 2,950	190 184 254	614 243 292	3,430 2,855 2,404	2,785 1,048	6,370 2,523 2,371	702 208 222	1,644 1,176 953	3,321 2,080 1,783	7,862 5,085 4,201	4,541 3,005 2,418
Fertilizers	1909 1904 1899	15 13 32	1,041 673 1,249	8 9 24	125 68 192	908 596 1,033	2,799 1,537	3,692 2,598 4,601	188 100 211	542 254 492	2,655 1,334 1,909	4,251 2,082 3,148	1,596 748 1,239
Firearms and ammunition	1909 1904 1899	8 1 7 8	1,910 1,524 1,778	1 3	128 99 90	1,781 1,425 1,685	2,312 1,665	4,343 2,966 2,058	150 165 85	1,162 804 930	508 329 459	2,374 1,727 1,970	1,866 1,398 1,511
Flags, banners, regalia, society badges, and emblems.	1909 1904 1899	64 54 50	1,025 560 485	73 59 61	139 74 53	813 427 371	266 97	1,187 807 723	114 59 53	354 152	892 480	1,864 964	972 484
Flour-mill and gristmill products	1909 1904 1899	983 825 747	5,120 4,650	1,191 1,067	939 520 343	2,990 3,063 2,133	79,098 68,021 59,134	30, 270 24, 819 19, 969	950 594 414	125 1,669 1,553	474 60, 470 47, 372	921 69, 802 54, 546	9,332 7,174
Food preparations	1909 1904 1899	177 156 123	4,163 3,266 2,158	179 153 141	961 494 305	3,023 2,619 1,712	6,061 4,153	9,233 16,954 3,334	1,229 644 809	1,116 1,332 881	31,058 9,660 6,664	35, 930 17, 324 11, 408	4,872 7,664 4,744
Foundry and machine-shop products.	1909 1904 1899	1,872 1,633 1,753	75,746 69,404	1,471 1,545	10, 209 7, 309 5, 526	64,066 60,550 63,216	102,437 73,695	208, 320 153, 086 131, 561	13, 197 8, 836 6, 589	618 40,602 35,309	4, 242 61, 621 49, 430	7, 406 154, 370 127, 915	3, 164 92, 749 78, 485
Fur goods	1909 1904 1899	863 603 560	11,263 7,519 5,939	1,310 939 826	1,709 776 659	8,244 5,804 4,454	1,102 1,105	19,509 11,251 7,300	1,760 800 634	5,704 3,480	57, 964 24, 140 15, 239 8, 732	128, 229 41, 301 26, 244	70, 265 17, 161 11, 005
Furnishing goods, men's	1909 1904 2 1899	375 272	20,758 18,636	466 379	2,106 1,631	18, 186 16, 626	3,284 2,789	24,110 19,045	2,566 1,378	2, 486 7, 756 5, 752	21,576 14,669	15, 829 42, 197 29, 337	7,097 20,621 14,668
Furniture and refrigerators	1909 1904 1899	676 537 375	23,195 18,671 16,610	655 639 478	2, 259 1, 282 1, 108	20, 281 16, 750 15, 024	28, 260 21, 127	34,676 22,838	2,834 1,517	11,669 8,780	19, 156 12, 367	41, 929 29, 326	22,773 16,959
Furs, dressed	1909 1904 1899	52 49 40	893 852 541	70 64 46	68 50 25	755 738 470	1,172 651	17, 283 744 602	1,241 86 62	7, 236 517 517	10, 375 272 383	24, 658 1, 240 1, 400	968 1,017
Gas and electric fixtures and lamps and reflectors.	1909 1904 1899	183 142 113	7,188 4,804 3,828	142 115 119	1, 029 614 440	6,017 4,075 3,269	3, 831 2, 439	458 10,840 6,690	26 1,416 882	302 3, 456 2, 157	5, 412 3, 615	777 13,010 8,961	7,598 5,346
Gas, illuminating and heating	1909 1904 1899	141 100 101	9, 221 8, 755 6, 705	15 5	2, 784 1, 721 1, 324	6,422 7,029 5,381	30, 089 15, 997	4,452 278,607 224,341	2,982 1,859	1,684 4,364 4,636	2,356 15,018 10,940	6, 204 42, 347 35, 315	27,329 24,375
Glass	1909 1904 1899	24 28 27	3, 295 3, 304 2, 690	7 9 17	174 142 117	3, 114 3, 153 2, 556	1,774 1,604	171,379 4,818 3,455	1,320 272 202	3,677 1,806 1,825	5,867 1,159 1,412	20, 918 4, 509 4, 280	15,051 3,350 2,868
Hass, cutting, staining, and ornamenting.	1909 1904 1899	156 136 135	3,570 3,251 2,398	165 156 169	287 183 166	3,118 2,912 2,063	1, 127 957 863	2,243 3,015 2,061	369 227	1,305 1,841 1,638	900 1,669 1,318	2,757 4,847 4,253	1,857 3,178 2,935
Gloves and mittens, leather	1909 1904 1899	225 194 243	7, 195 6, 185	312 276	596 296 328	6,287 5,613	1,003 770	1,621 10,537 6,348	176 623 263	1,074 2,841 2,131	1,406 8,023 5,696	3,559 14,336 9,946	2, 153 6, 313 4, 250
Gold and silver, reducing and refining, not from the ore.	1909 1904 1899	10 5 14	64 43 80	13 6 18	9	9,907 42 34	920 97 81	540 317	295 13 20	2,724 34 27	6,328 2,396 3,689	10, 854 2, 603 3, 776	4, 526 207 87
Tair work	1909 1904 1899	132 43 54	2, 733 506	166 53	254 68 22	2,313 385 378	4 52	3,267 688 467	230 57 19	39 1,061 165	4, 314 4, 500 466 293	4,528 7,861 1,012	214 3,361 546 515

<sup>&</sup>lt;sup>1</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.

<sup>&</sup>lt;sup>2</sup> Figures not comparable.

# STATISTICS OF MANUFACTURES.

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	B ENGAG	ED IN IND	USTRY.					G	Webs - C	Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
		III CITICI		mem- bers.	ees.	num- ber).			E	xpressed	in thousand	ls.	
STATE—Continued.													
Hat and cap materials	1909 1904 1899	32 31 28	1,087 1,285 671	33 48 37	89 45 24	965 1,192 610	713 544	\$2,580 2,102 755	\$119 55 28	\$424 430 196	$\begin{array}{c} \$2,775 \\ 2,325 \\ 1,256 \end{array}$	\$3,835 3,382 1,751	\$1,060 1,057 495
Hats and caps, other than felt, straw, and wool.	1909 1904 1899	244 209 288	4,000 4,025 5,109	348 327 409	304 176 194	3,348 3,522 4,506	413 279	2,798 1,955 2,602	391 188 197	2,004 $1,859$ $1,994$	3,875 3,303 4,289	7, 826 6, 886 8, 344	3, 951 3, 583 4, 055
Hats, fur-felt	1909 1904 1899	44 43 15	5,379 4,684 4,280	47 52 12	319 235 135	5,013 4,397 4,133	1,451 3,487 1,840	5,702 4,441 3,050	393 264 224	2,725 2,309 2,079	5, 406 3, 478 2, 607	10, 219 7, 740 5, 602	4, 813 4, 262 2, 995
Hats, straw	1909 1904 1 1899	46 21	2,922 1,468	47 31	367 95	2,508 1,342	835 629	3,592 1,502	531 98	1,473 614	3,993 1,359	7, 617 2, 625	3,624 1,266
Hosiery and knit goods		360 271 258	37,673 30,694 27,700	302 224 250	1, 421 1, 105 824	35, 950 29, 365 26, 626	35,882 25,310 21,551	52, 582 35, 310 30, 307	2,042 1,284 942	14,839 10,160 8,998	38,677 28,210 20,266	67, 130 46, 320 36, 028	28, 453 18, 110 15, 762
House-furnishing goods, not elsewhere specified.	1909 1904 1899	99 73 75	2,175 2,154 2,392	100 77 88	263 224 206	1,812 1,853 2,098	2,983 1,927	4,015 3,254 2,871	306 209 158	786 747 689	5, 690 4, 496 4, 042	7, 789 6, 375 5, 579	2,099 1,879 1,537
Ice, manufactured		89 58 41	1,372 723 399	34 21 17	214 99 63	1,124 603 319	21,375 15,958 5,422	7,766 5,972 2,555	287 100 52	835 424 201	1,044 577 269	3,808 1,749 1,051	2,764 1,172 782
Ink, printing		29 26 24	908 439 355	20 30 26	363 126 128	525 283 201	2,301 1,068	3,052 1,411 1,084	579 189 154	370 · 184 122	1,878 1,103 695	4,059 2,320 1,418	2, 181 1, 217 723
Instruments, professional and scientific.	1909 1904 1899	87 75 99	2, 423 1, 439 1, 244	73 62 119	386 155 132	1,964 1,222 993	1,899 660	4,478 2,145 1,621	496 197 132	1,146 630 530	975 493 437	3,308 2,042 1,657	2,333 1,549 1,220
Iron and steel, blast furnaces	ĺ	9 9	2,562 1,635 1,078		264 76 45	2, 298 1, 559 1, 033	95, 416 39, 080 15, 263	39,666 14,645 3,396	408 157 81	1,758 1,161 633	20,917 6,374 3,508	26,621 8,635 5,046	5,704 2,261 1,538
Iron and steel, steel works and rolling mills.	1909 1904	25 20 21	11,089 8,142 4,593	4 7 15	994 609	10,091 7,526 4,385	136, 456 69, 430 14, 234	61,453 48,852 8,788	1,292 801 297	6, 323 4, 393 2, 430	25,889 13,260 4,168	39,532 21,227 8,812	7,967
Jewelry	1899 1909 1904 1899	479 294	7,146 5,040 3,687	603 421 361	1	5,379 4,075 3,022	1,596 978	13,663 9,115 5,828	1,193 568 304	3,820 2,606 2,002	10,433 6,121	20,363 12,357 10,245	9,930 6,236
Jewelry and instrument cases	. 1909 1904	250 67 58	1,364 1,303 596	75 79 50	117 84	1,172 1,140 507	214 172	1,127 749 367	i	519 413	678 553	1,781 1,432	1,103 879
Lapidary work	1904	38 43 27 37	681 573 481	54 40 49	128 92	499 441	592 500	4, 252 2, 261 2, 976	161 101	791 610	6,319 6,097	8,660 7,380	2,341 1,283
Lead, bar, pipe, and sheet	1904	9 9 8	225 198 130	1 3 7	39 39	185 156	1,247 749	1,123 861 697	78 59	120 98	1,721 2,869	2,069 3,285	348 416
Leather goods	1904	483 408 340	9,283 8,880	587 546	1,110	7,586 7,648	1,836 1,496	10,379	1.258	4, 089 3, 295	11,632 9,369	20,997 17,224	9,365 7,855
Leather, tanned, curried, and finished	1904	109 118	6, 278 5, 843	132 158 199	458 241	5,688 5,444	14,265 13,231	25, 755 24, 038	689 340	2,912 2,485	20, 941 16, 275	27,642 21,643	6,701 5,368
Liquors, malt	1904	147 184 209	6,922 10,705 9,896	75 91	1,899 1,828	8, 731 7, 977	11	127, 492 106, 799	5, 051 4, 316	7, 294 6, 364	18,883 15,845	77,720 61,958	58,837 46,113
Liquors, vinous.	1904	225 41' 59	9, 298 452 589	24 56	157 143	271 390	712 668	3,688	217 1 182	128 176	781 927	1,817 2,249	1,036
Looking-glass and picture frames	1904	38 140 125	1,891 1,821	144	256 175	1,491 1,510	866 999	2,209	312	885 809	1,463	3,555 2,778	2,092 1,827
Lumber and timber products	1904	2, 263 1, 599	32, 458 29, 867	2,519 1,998	1,856	27,471 26,013	131, 462 101, 614	64, 49 48, 93	1 2,798 7 2,060	15,101 13,221	41,705 32,461	72,530	30,825 7 29,210
Malt.	1001	1,802 32 43	645 679	20	1,435 101 101 94 90	524 540	5, 659 4, 235	21,97	8 215 3 146	3 401 3 370	8,879 5,379	11,05 7,03	1 2,179 7 1,668
Marble and stone work	1899 1909 1904 1899	655 2 324 538	8, 469 8, 180	768 420	762	6,939 7,159	18, 110 10, 748	16, 27 11, 48	1,007	5,636 L 6,099	7,070 5,74	3 17,92	1

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

<sup>&</sup>lt;sup>2</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

STATE—Continued.  Mattresses and spring beds. 1  Millinery and lace goods. 1	1909 1904 1899 1904 1899 1904 1899 1909 1909	Number of establishments.  168 136 132 931 567 393	2,088 1,767 	Proprietors and firm members.	employ- ees.	Wage earners (average num- ber).	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manu- facture.			
Mattresses and spring beds 1  I  Millinery and lace goods 1	1904 1899 1909 1904 1899 1909 1904 1899	136 132 931 567 393 47	1,767 25,369	bers.	289	ber).										
Mattresses and spring beds 1  I  Millinery and lace goods 1	1904 1899 1909 1904 1899 1909 1904 1899	136 132 931 567 393 47	1,767 25,369		289	{	-	Expressed in thousands.								
Millinery and lace goods	1904 1899 1909 1904 1899 1909 1904 1899	136 132 931 567 393 47	1,767 25,369		289											
1	1904 1899 1909 1904 1899	567 393 47			197 153	1,621 1,408 1,272	1,581 1,276	\$3,060 1,846 1,333	\$261 - 171 173	\$922 733 609	\$3,461 2,810 1,988	\$5,899 4,583 3,686	\$2,438 1,773 1,698			
	1904 1899 1909		13,025	1,234 817 571	3,057 1,830 1,180	21,078 16,258 11,274	3, 511 2, 042	19,920 11,273 7,721	3,233 1,465 1,052	9,626 6,268 4,632	27, 135 16, 893 11, 177	52,106 32,844 21,038	24, 971 15, 951 9, 861			
1		40 36	1,160 1,050 1,098	50 58 59	127 105 95	983 887 944	1,145 717	1,548 1,130 1,456	145 96 109	630 472 523	1,999 1,882 2,503	3,262 2,892 3,947	1,283 1,010 1,444			
paper patterns.	899	136 98 105	1,382 862 704	147 118 123	153 83 34	1,082 661 547	910 581	1,531 998 675	191 79 37	736 395 375	620 322 230	2,461 1,261 984	1,841 939 754			
gans and materials.	909 904 .899	184 160 135	13,102 10,573 7,393	117 133 153	1,047 826 439	11,938 9,614 6,801	10, 905 6, 569 6, 207	33,019 21,023 13,167	1,870 1,256 641	7,752 5,925 3,963	17, 495 10, 950 6, 563	33,680 23,390 14,746	16, 185 12, 440 8, 183			
1	.909 .904 .899	6 6 9	691 567 464	5 5 9	120 48 64	566 514 391	4, 845 3, 888	7, 241 3, 979 4, 085	473 263 114	338 273 199	12,628 8,168 7,596	15,392 9,907 8,427	2,764 1,739 831			
1	909 904 899	4 1 4 2 6	1,153 743 841	2 5 10	49 26 28	1,102 712 803	2,384 814	2,902 2,203 1,927	113 50 45	571 381 327	2,166 1,122 832	3,522 1,933	1,356 811 648			
( • 1	909 904 899	51 33 22	2,563 1,549	49 26	467 95 185	2,047 1,428 1,345	1,896 1,266	4,547 2,430 1,909	254 85 126	1,328 664 618	1, 225 678 567	1,480 3,996 1,870	2,771 1,192			
19	909 904 899	147 128 122	4,741 4,306 3,566	78 107 53	1,616 949 803	3,047 3,250 2,710	10,857 10,559 6,745	22,002 20,007 16,949	2,311 1,339 1,359	1,863 1,823 1,519	17, 895 16, 870	1,761 28,559 25,121	1, 194 10, 664 8, 251			
19	909 904 899	178 177 179	13,018 13,262 10,001	59 85 129	886 759 604	12,073 12,418 9,268	337, 548 390, 730 227, 767	90, 912 56, 462 37, 349	1,471 1,132 859	6,744 6,402	12, 299 31, 767 22, 806	18,878 48,860 37,751	6,579 17,093 14,945			
19	909 904 899	107 1 79 1 76	5, 257 4, 006 3, 119	68 82 77	886 457 399	4,303 3,467 2,643	6,257 3,925	9,276 5,639 4,657	1,070 582	4,100 1,765 1,235	14, 563 6, 786 4, 203	26,716 12,111 7,582	12, 153 5, 325 3, 379			
19	909 904 899	16 20 6	1,507 1,772 714	12 8 3	734 693 86	761 1,071 625	669 38	4, 383 2, 223 192	487 594 490	1,005 328 441	3, 405 523 332	6,076 2,166 2,242	2,671 1,643 1,910			
and druggists' preparations.	909 904 899	743 611 519	8, 566 6, 795 7, 080	523 507 504	3,315 1,954 1,968	4,728 4,334 4,608	5, 423 3, 418	22, 484 18, 079 18, 639	58 4,105 2,582	2, 226 1, 847	12,589 8,816	389 37, 343 28, 646	302 24, 754 19, 830			
gold.	909 904 899	30 24 23	1,108 7,65 520	25 20 25	353 131 88	730 614 407	192 156	1,853 881 569	2, 243 374 133	1,827 427 362	10,155 1,563 876	26,538 3,219 1,945	16,383 1,656 1,069			
rials.	909 904 399	42 44 52	5, 186 3, 374 2, 350	23 26 37	1,075 734 231	4,088 2,614 2,082	6,782 3,556	15, 410 4, 713	1,096 690	2, 435 1, 215	500 4,967 2,742	1, 182 18, 764 9, 523	682 13, 797 6, 781			
19	909 904 399	66 48 56	1,809 1,209 925	42 39 73	372 203 133	1,395 967 719	470 358	3,601 1,,035 926	207 426 238	827 1,351 839	1,824 555 413	4,187 2,908 1,988	2,363 2,353 1,575			
19	009 004 899	30 32 39	1,871 1,290 980	40 46 46	168 37 80	1,663 1,207 854	803 571	545 2, 207 728	127 177 36	558 757 550	1,432 924	3,212 1,881	955 1,780 957			
	009 104 199	39 43 52	2,628 2,979 2,489	19 28 43	242 256 176	2,367 2,695 2,270	4,039 4,212	5,343 5,111	73 359 328	483 1,296 1,333	808 875 872	1,691 3,403 3,289 2,389	883 2, 528 2, 417			
Printing and publishing. 19	04	4, 426 3, 718 3, 146	94,893 77,671 62,147	3,732 3,563 3,388	28, 041 20, 672	63,120 53,436	5, 558 53, 973 29, 652	4, 103 158, 367 127, 887	200 33, 251 22, 263	873 43, 559 34, 071	522 56, 494 39, 482	2,389 216,946 164,834	1,867 160,452 125,352 87,061			
Rubber goods, not elsewhere specified.	09 04	53 55 55	2,518 3,050 2,375	43 42 58	10, 647 409 316	2,066 2,692	6, 898 4, 399	7,330 4,752	720 463	28,114 1,058 1,113	31,010 5,659 5,000	8, 784 8, 266	3,125 3,266			
Salt. 190	09 04	33 34 38	1, 686 1, 527 1, 441	20 21	214 141 133	2,103 1,525 1,373 1,279	9,923 4,923	4,114 14,552 15,322	312 229 172	765 586	2,998 1,195 1,186	5, 304 2, 897 3, 167	2,306 1,702 1,981			
Scales and balances	09 04	16 16	582 622	5 10 17	157 119 80	453 525	585 685	17,232 1,348 1,137	247 152 103	543 284 292	958 420 264	2, 699 1, 180 864	1,741 760 600			
Shipbuilding, including boat building.	09 04	255 210 227	6, 230 7, 001 6, 044	16 262 236 275	77 324 337 197	5,644 6,428 5,572	13,835 10,988 10,374	718 14,084 11,744 9,675	71 543 471	3,780 4,387 3,182	3,925 3,989	721 11, 417 11, 265	504 7, 492 7, 276 5, 531			

 <sup>1</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.
 2 Excluding statistics for two establishments, to avoid disclosure of individual operations.

# STATISTICS OF MANUFACTURES.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

THE STATE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

		l	PERSONS	ENGAG	ED IN IND	USTRY.							Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	num- ber).		o	Œ	xpressed	in thousand	ls.	
STATE—Continued.													ø
Silk and silk goods, including throwsters.	1909 1904 1899	170 123 92	14,136 12,348 8,318	140 105 94	1,093 960 363	12,903 11,283 7,861	11,110 7,250 5,111	\$20,972 15,751 9,800	\$1,493 1,104 514	\$5,385 4,268 2,862	\$13,949 10,490 6,570	\$26, 519 20, 181 12, 706	\$12,570 9,691 6,136
Silverware and plated ware	1909 1904 1899	53 42 56	3, 678 3, 663 2, 930	45 36 68	568 323 337	3,065 3,304 2,525	2,819 2,817	7,488 5,782 4,177	665 367 335	1,899 1,789 1,335	3,589 3,059 2,259	7,859 6,580 5,346	4,270 3,521 3,087
Slaughtering and meat packing	1909 1904 1899	238 151 168	7, 583 4, 654 4, 109	262 183 209	1,211 710 612	6,110 3,761 3,288	13,936 7,271	34, 536 18, 102 15, 718	1,690 872 593	4,387 2,592 1,949	110,168 66,778 51,173	127,130 75,550 58,403	16,962 8,772 7,230
Smelting and refining, not from the ore.	1909 1904 1899	15 11 9	407 230 259	21 13 9	102 41 79	284 176 171	1,595 1,280	3,257 1,531 1,014	130 84 101	191 101 135	8,267 4,716 1,475	9,018 5,180 2,144	751 464 669
Soap	1909 1904 1 1899	67 67	3,924 3,287	50 69	898 816	2, 976 2, 402	5,873 4,270	16,708 10,603	829 697	1,436 1,043	15,612 8,411	23,583 13,402	7,971 4,991
Stationery goods, not elsewhere specified.	1909 1904 1899	55 39 42	1,815 1,277 1,219	51 31 48	521 233 223	1, 243 1, 013 948	1,307 554	2,762 2,002 1,707	490 206 196	636 421 355	1,610 1,078 895	3,344 2,531 2,142	1,734 1,453 1,247
Steam packing.	1909 1904 1899	36 23 27	1, 295 782 232	21 22 30	373 100 66	901 660 136	1,804 1,097	3, 795 4, 415 431	490 172 70	464 306 82	1,971 923 307	3,783 2,349 634	1,812 1,426 327
Stereotyping and electrotyping	1909 1904 1899	47 41 36	1,182 1,019 839	40 52 41	237 139 89	905 828 709	1,414 1,033	1,209 1,156 769	313 152 87	852 662 <b>4</b> 35	626 368 229	2,228 1,603 1,094	1,602 1,235 865
Stoves and furnaces, including gas and oil stoves.	1909 1904 1 1899	58 48	4,957 3,190	22 32	688 370	4, 247 2, 788	6, 273 2, 629	11, 479 5, 973	905 436	2,746 1,790	3,542 1,939	8,974 5,527	5,432 3,588
Surgical appliances and artificial limbs.	1909 1904 1899	72 62 64	708 787 501	67 58 62	177 112 78	464 617 361	240 210	969 679 445	188 100 63	276 331 175	507 318 191	1,490 1,210 863	983 892 672
Tobacco manufactures	1909 1904 1899	3, 371 3, 543 3, 097	36,197 39,924 31,928	3,699 3,912 3,461	2,479 2,066 1,396	30,019 33,946 27,071	2,657 1,713	41,863 53,795 22,493	3,209 1,973 1,752	13,666 14,547 11,503	25, 240	76, 662 65, 597 53, 661	45,321 40,357 34,546
Toys and games	1909 1904 1899	67 41 49	1,406 926 681	65 39 60	144 61 39	1,197 826 582	451 1,093	1,310 1,381 670	100	457 324 212		1,849 1,644 865	1,002 836 522
Typewriters and supplies	1909 1904 1899	43 31 21	5, 160 3, 249 2, 012	22 12 7	376	4,538 2,861 1,848	2,757 1,931	12,487 9,959 3,782	463	3,020 1,709 1,084	862	10, 298 5, 352 3, 824	8, 417 4, 490 3, 141
Umbrellas and canes	1909 1904 1899	142 99 101	2,353 1,827	179 136		1,919 1,499 1,621	507 239	2,240 1,272 1,628	159	907 617 624	2,857	6, 427 4, 711 5, 225	2,296 1,854 1,910
Vinegar and eider	. 1909 1904 1899	277 154 149	913 665	304 182		529 434 410	5,719 3,302	5,036 2,815 1,558	42		997	1,911	766 914 548
Wall paper	. 1909 1904 1899	13 14 18	1,889 2,021 2,385	2 5 8	285 217 249	1,602 1,799 2,128	1,596 2,159	5, 221 5, 534 4, 086	293	835	2,795	5,596	2,803 2,801 2,278
Wall plaster	1909 1904 11899	31 35	1,550 1,532	9 21	204 135	1,337 1,376	7,356 5,803	5, 791 3, 899	352 169	775 719		4,494 3,735	2,069 1,641
Window shades and fixtures	1909 1904 1899	75 35 35	1,172 988	74 37	187 140 83	911 811 615	1,555 1,139	3,341 2,412 2,154	237 179 112		1,994	2,883	889
Wire.	1909 1904 1899	7 6 3	1,521 1,249 55	1 2 3	81 68 7	1,439 1,179 45	5,455 4,576	5, 477 4, 788 96	218 176 5	637	8,005	9,401	1,396
Wirework, including wire rope and cable.	1909 1904 1899	106 143 109	1,988 2,442 1,511	94 176 126	245 281	1,649 1,985 1,276	2,402 1,068	3,759 2,383 2,100	339 265 107	961	1,428	1 3,639	2,211
Wood distillation, not including tur- pentine and rosin.		29 32	668 574	10 19		593 489	599 706	3,298 3,199	1	262 218	2,519 3 2,480	3,402 3,357	883 877
Wood, turned and carved	. 1909 1904 1899	159 157 191	1,594 1,034 1,218	194 194 220	35	1,279 805 952	3,223 2,448	1,615 890 920	0   29	443	3 439	1,299	1,503 860 1,030
Woolen, worsted, and felt goods, and wool hats.		64 67 88	9,907 9,435 9,923	66 74 91	381 419	8,942	22,374 21,738 49,180	25, 200 20, 510 19, 22	8 819 6 668 8 615	3,520	0 10,71	5   19,47	8,995 7 8,762 4 7,100
All other industries.	. 1909 1904 1899	2,262 2,118 2,590	49,296 50,758	2,299 2,318	6,628 4,504 5,728	43,936	104,293 77,838	212,31 182,87 180,75	3 9,117 7 5,997 4 6,679	23,80	1 236, 10 2 219, 37 7 184, 57	0 314, 40 2 296, 94 8 250, 63	8 77,576

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

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES.

			PERSO	NS ENGA	GED IN IN	DUSTRY.							
INDUSTRY.	Census	Num- ber of estab- lish- ments	f   Total	Pro- prietor and firm	Salaried employ-	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	Value added by manu- facture.
		-		mem- bers.		ber).				Expressed	in thousan	ds.	·
ALBANY—All industries	1904 1899	395 490 511	10,685	410 550	1,336 1,159 761	9,861 8,976 8,106	15,629	\$26, 276 16, 676 18, 011	\$1,581 1,377 914	\$5,234 4,269 3,852	\$10,521 9,377 7,507	\$22,826 20,209 17,269	\$12,305 10,832 9,762
Boxes, fancy and paper	- 1909 1904 1899	3 5 4	129	5 8 7	4 5 6	54 116 94	15	39 54 16	5 4 2	22 32 23	37 43	88 115	51 72 53
Brass and bronze products	1909 1904 1 1899	6 4	55	5 2	9 12	41 29	59	114 76	9 9	31 20	34 88 38	87 143 83	53 55 45
Bread and other bakery products	1909 1904 1899	69 78 70	463	76 88 70	86 55 58	289 320 223	143	843 508 402	52 29 25	169 153 109	735 588 413	1,210 958	475 370
Brick and tile	. 1909 1904 1899	4 5 5	99	5 6 6	4 4 3	90 89 80	365	180 126 143	3 2 2	39 39 33	21 44 13	756 143 135	343 122 91
Carriages and wagons and materials.	1909 1904 1899	11 8	65 115	10 19	7 6 1	48 90 46	63	203 247 91	12 8 1	37 51 25	32 45 21	63 92 154	50 60 109 53
Clothing, men's, including shirts	1909 1904 1899	13 20 2 27	1,075 1,244 189	24 25 29	60 105 23	991 1,114 137	256	604 642 105	38 90 15	331 327 46	233 491 91	74 668 1,031	435 540 118
Coffee and spice, roasting and grinding.	1909 1904 1899	5 5 4	43 55 55	11 12 7	10 13 9	22 30 39	170	155 229 198	8 13 8	11 13 24	221 175 243	209 288 228 320	67 53 77
Confectionery	1909 1904 1899	6 5 7	123 115	6 6	1 11 10	116 98 119	140	166 166 203	2 10 7	35 38 43	140 121 181	246 232 296	106 111
Cutlery and tools, not elsewhere specified.	1909 1904 11899	3 3 3	29 21	6` 4	4	19 17	20	20 20	3	12 9	10 10	47 25	115 37 15
Foundry and machine-shop products.	1909 1904 1899	18 23 30	745 1,040	19 24	90 87 79	636 929 1,250	809	2,923 1,560 2,792	110 110 136	396 508 643	559 734 696	1,354 1,774 1,926	795 1,040
Hats and caps, other than felt, straw, and wool.	1909 1904 1899	3 3 5	29 26 25	5 4 6	3 1	21 21 19	3	29 12 17	2	14 11 9	27 17 22	63 36 47	1,230 36 19 25
Liquors, malt	1909 1904 1899	8 10 10	431 385 453	2 4	$\begin{array}{c} 125 \\ 102 \\ 106 \end{array}$	306 281 343	2,328	4,203 3,204 3,776	364 322 277	292 226 236	653 567 528	3,056 2,449 2,479	2, 403 1, 882 1, 951
Lumber and timber products	1909 1904 1899	$\begin{smallmatrix}9\\11\\2&9\end{smallmatrix}$	185 221 259	$^{12}_{12}_{12}$	13 15 11	160 194 236	715	338 322 413	15 15 10	82 94 113	296 430 224	468 613 415	172 183 191
Marble and stone work	1909 1904 1899	8 7 5	47 95 27	14 6 5	19	33 70 21	68	52 256 10	23 1	23 41 12	32 42 10	86 150 31	54 108 21
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	8 <sup>3</sup> 12 <sup>2</sup> 14	28 36 32	9 18 16	7 5 2	12 13 14	19	48 28 30	4 2 1	5 4 6	27 11 11	69 42 36	42 31 25
Photo-engraving.	1909 1904 1899	3 3 3	35 35 35	1 1	9 8 4	26 26 30	8	27 21 22	12 13 5	21 20 26	12 7 10	50 50 50	38 43 40
Printing and publishing	1909 1904 1899	64 56 3 54	2,003 1,616	51 50	317 229 134	1,635 1,337 1,150	1,324	3,119 1,767 2,014	307 226 126	957 768 620	1,274 529 505	3,249 2,351 1,930	1,975 1,822 1,425
Slaughtering and meat packing	1909 1904 1899	7 8 8 9	30 51	8 9	2 4	20 38 43	91	58 99 151	$\frac{1}{2}$	13 19 22	211 124 672	266 176 753	55 52 81
Tobacco manufactures	1909 1904 1899	52 74 74	322 658 504	56 90 91	21 70 43	245 498 370	60	444 628 517	29 66 38	124 247 192	280 396 232	677 1,074 760	397 678 528
All other industries	1909 1904 1899	102 147 173	5,749 4,238	88 164	564 408 271	5,097 3,666 3,889	8,973	12,711 6,711 7,111	605 432 260	2,620 1,649 1,670	5,633 4,965 3,601	10,563 8,533 7,037	4,930 3,568 3,436
BUFFALO—All industries	1909 1904 1899	1,753 1,538 1,478	61,246 50,390	1,489 1,559	8,345 5,264	51,412 43,567	121,791	\$193,041 137,023	\$9,347 5,542	\$28,727 21,622	\$136,538 88,367	\$218,804 147,378	\$82,266 59,011
Automobiles, including bodies and parts.	1909 1904 1899	23 25 3	3,640 679	13	583 53	34,275 3,044 625	4,561	95,740 9,300 791	3,429 283 71	2,200 390	65,938 4,596 580	9,598 1,386	39,689 5,002 806
Bicycles, motorcycles, and parts	1909 1904 1899	7 7 14	181 39 673	4 7	7 27 2	150 30	151	339 46	6 31 2 70	105	34 149	78 390 42	44 241
				11 without	65   disologing	597	l operation:	1,064	70	15 264	13 597	1,223	29 626

Figures can not be shown without disclosing individual operations.
 Excluding statistics for 2 establishments, to avoid disclosure of individual operations.
 Excluding statistics for 1 establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSO	ns enga	GED IN IN	DUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			E	xpressed	in thousand	is.	<del></del>
BUFFALO—Continued.	1000		00=									2021	
Blacking and cleansing and polishing preparations.	1909 1904 1899	11 1 5 1 6	287 46 81	4 3 7	147 7 26	136 36 48	209	\$942 94 76	\$123 4 23	\$67 8 10	\$411 84 65	\$964 136 135	\$553 52 70
Boots and shoes, including cut stock and findings.	1909 1904 1899	14 2 12 2 17	722 466 813	14 12 19	55 26 69	653 428 725	370	910 343 540	55 20 59	267 144 192	835 404 571	1,356 707 890	521 303 319
Brass and bronze products	1909 1904 1899	18 9 1 7	414 113 42	12 8 8	• 55 16 2	347 89 32	2,417	1,047 102 47	72 15 1	211 48 16	$1,141 \\ 231 \\ 40$	1,791 349 75	650 118 35
Bread and other bakery products	1909 1904 1899	189 144 154	1,794 1,646 1,295	180 144 163	259 185 129	1,355 1,317 1,003	1,191	4,369 2,912 1,947	251 150 96	725 619 413	3,335 2,530 1,413	5,544 4,452 2,548	2,7209 1,922 1,135
Brick and tile	1909 1904 1899	5 7 6	178 276 241	5 10 12	10 12 7	163 254 222	265	402 658 678	11 9 5	88 128 93	25 46 38	165 243 203	140 197 165
Canning and preserving	1909 1904 1899	8 4 25	73 14 30	9 5 7	22	42 9 21	100	98 30 41	13 1	17 5 6	142 9 27	204 22 47	62 13 20
Carriages and wagons and materials	1909 1904 1899	48 40 47	504 615	48 43	27 47 44	429 525 547	551	983 1,363 1,501	44 56 37	247 259 286	557 591 584	1,196 1,164 1,280	639 573 696
Cars and general shop construction and repairs by steam-railroad com- panies.	1909 1904 1899	7 7 9	3,474 2,939 3,325		284 205 80	3, 190 2, 734 3, 245	2,768	2,391 1,714 1,694	219 163 64	1,938 1,512 1,528	2,277 1,901 2,556	4,524 3,609 4,191	2,247 1,708 1,635
Clothing, men's, including shirts	1909 1904 1899	60 91 124	1,681 2,016	70 105	181 134 99	1,430 1,777 1,627	365	2,309 2,216 1,751	182 132 97	601 633 489	1,797 2,311 1,533	3,699 4,369 2,943	1,902 2,058 1,410
Clothing, women's		14 11 10	655 397 280	12 10 13	87 21 9	556 366 258	61	448 218 76	63 16 5	182 114 57	565 269 143	1,014 509 273	449 240 130
Confectionery	1909 1904 1899	26 20 10	633 675	22 17	106 79 59	505 579 452	604	614 545 350	93 65 46	160 160 102	739 620 617	1,180 1,251 930	441 631 313
Cooperage and wooden goods, not elsewhere specified.	1909 1904 1899	13 18 29	194 227	12 21	10 6 2	172 200 310	206	306 239 227	12 3 1	94 93 176	428 264 250	609 427 527	181 163 277
Copper, tin, and sheet-iron products	1909 1904 1899	67 40 1 27	1,882 1,653	68 50	262 124 28	1,552 1,479 354	1,955	4,127 2,230 611	288 129 21	853 595 181	2,272 1,309 427	4,123 2,555 829	1,851 1,246 402
Cutlery and tools, not elsewhere spec- ified.	1909 1904 1899	11 16 3	273 138	6 7	36 17	231 114 2	359	503 160 4	47 17	128 51 1	141 37 1	452 160 5	311 123 4
Electrical machinery, apparatus, and supplies.	1909 1904 1899	8 8 8	347 244 67	4 2 7	61 33 10	282 209 50	654	1,175 508 126	85 32 8	141 97 20	336 169 76	661 398 161	325 229 85
"Flour-mill and gristmill products	1909 1904 1899	10 9 9	793 540 243	1 4 11	316 111 37	476 425 195	10,987	5,313 4,017 1,594	319 129 44	324 210 112	17,470 8,602 2,932	19,942 9,808 3,264	2,472 1,206 332
Foundry and machine-shop products.		149 2 118 105	10,018 7,932	94 111	1,056 690 430	8,868 7,131 5,044	11,690	20,326 21,383 10,738	1,343 672 404	5,144 3,934 2,623	8,811 6,058 4,228	20,775 14,557 9,279	11,964 8,499 5,051
Fur goods	1909 1904 1899	12 7 13	122 82 67	11 6 15	23 1 5	88 75 47	. 6	214 118 63	17 2 2	61 30 17	192 116 44	350 217 107	158 101 63
Furniture and refrigerators	1909 1904 1899	. 33 26 21	2,347 1,797 1,329	25 34 27	270 104 82	2,052 1,659 1,220	2,846	4,083 4,328 2,608	312 115 92	1,037 736 497	2,156 1,205 794	4,185 2,543 1,829	2,029 1,338 1,035
Gloves and mittens, leather	1909 1904 1899	9 5 4	98 60 76	10 8 3	12 4 19	76 48 54	12	108 58 64	14 3 13	35 20 19	73 50 55	148 88 106	75 38 51
Instruments, professional and scientific.	1909 1904 1899	7 5	130 132	6 2	14 24 18	110 106 58	34	178 267 135	25 29 23	54 34 31	29 54 15	151 158 108	122 104 93
Jewelry	1909 1904	14 16	401 374 204	22 28 13	81 40 18	298 306 173	116	1,307 831 322	99 25 33	174 154 87	385 439 194	979 917 414	594 478 220
Jewelry and instrument cases	1899 1909 1904 1899	10 8 9 4	204 458 493 125	6 12 7	36 14 11	416 467 107	109	342 197 43	47 9 7	113 110 31	131 111	393 303	262 192

 <sup>1</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.
 2 Excluding statistics for two establishments, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued. CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSONS	ENGAGI	ED IN IND	USTRY.							Value
INDUSTRI.	census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added b manu- facture
				mem- bers.		ber).			I	Expressed	in thousan	ds.	
BUFFALO—Continued.													
Leather goods	1909 1904 1899	1 15 1 13	609 479	27 22	73 23 26	509 434 305	460	\$938 568 376	\$96 24 24	\$262 195 142	\$521 356 276	\$1,129 769 520	\$60 41 24
Leather, tanned, curried, and finished.	1909 1904 1899	4 4 3	579 724 580	7 8 10	59 30 9	513 686 561	1,297	3,058 1,926 1,295	85 28 8	246 264 220	2,194 1,694 1,152	2,809 2,428 1,663	61. 73- 51.
Liquors, malt	1909 1904 1899	16 19 18	828 746 735	3 5	155 152 170	673 591 560	4,888	12,784 9,312 9,135	413 264 209	536 437 411	1,481 1,204 862	6,497 5,187 4,270	5,016 3,98 3,40
Lumber and timber products	1909 1904 1899	32 2 30 28	2,202 2,168 2,065	25 38 37	227 175 82	1,950 1,955 1,946	6,713	5,051 4,270 3,152	236 183 61	1,106 1,036 775	3,325 2,937 2,269	5,580 4,824 3,627	2,255 1,88 1,356
Malt	1909 1904 1899	16 17 16	362 282 255	8 16 15	66 41 35	288 225 205	3,862	15,472 4,431 2,394	144 69 41	222 161 123	5,657 2,239 1,377	7,095 3,036 1,960	1,438 791 583
Marble and stone work	1909 1904 1899	17 14 110	410 444	15 20	31 34 26	364 390 <b>3</b> 96	427	753 553 793	36 39 32	243 246 217	443 151 207	943 712 591	500 561 384
Mattresses and spring beds	1909 1904 1899	8 9 4	230 193	4 11	36 20 26	190 162 117	137	256 253 180	26 17 25	91 71 43	276 289 166	555 432 280	270 142 114
Mirrors	1909 1904 3 1899	5 3	113 44	1 3	7 3	105 38	125	79 13	5 2	69 22	200 28	331 70	131 42
Models and patterns, not including paper patterns.	1909 1904 1899	9 9 6	80 56 22	6 11 7	7 3	67 42 15	76	59 30 11	10 3	62 32 12	12 7 2	123 71 25	111 64 23
Paper goods, not elsewhere specified	1909 1904 1899	4 2 3 3	140 127	2 2	30 11 4	108 114 69	98	172 134 77	30 14 ·4	44 39 22	149 83 47	295 176 90	14( 93 43
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	61 1 44 47	580 371 613	48 38 44	302 84 80	230 249 489	362	1,089 904 1,213	196 88 79	90 78 202	361 302 346	2,801 1,996 1,933	2,440 1,694 1,587
Photo-engraving	1909 1904 3 1899	6 4	137 62	6 7	35 11	96 44	153	120 96	31 9	79 45	28 12	189 100	161 86
Printing and publishing	1909 1904 1899	164 2 161 2 131	3,994 3,520	133 148	772 503 448	3,089 2,869 2,389	3,588	6,649 5,730 4,235	786 535 363	1,937 1,577 1,256	2,355 1,849 1,072	7,679 6,446 4,025	5,324 4,597 2,958
Slaughtering and meat packing	1909 1904 1899	39 33 32	1,929 1,490 1,214	35 31 37	232 277 203	1,662 1,182 974	3,743	7,271 4,974 5,222	329 265 147	963 602 458	21,789 14,220 10,117	25, 416 16, 220 11, 772	3,627 2,000 1,656
Soap	1909 1904 1899	8 10 9	1,592 1,722 1,249	2 10 13	230 571 493	1,360 1,141 743	2,489	7,257 5,674	215 370	545 435	5,760 3,257	8,653 4,793	2,893 1,536
Stereotyping and electrotyping	1909 1904 1899	3 3 3	58 54 73	3 4 4	8 11 13	47 39 55	112	2,565 73 45	267 5 8	242 32 19	2,475 44 22	3,819 138 107	1,344 94 86 97
Tobacco manufactures	1909 1904 1899	188 1175 1176	764 771 535	210 198 194	38 34 16	516 539 325	21	62 600 558 420	10 34 26 15	28 282 286 179	550 324 299	104 1,237 983 812	687 650 513
Wall plaster	1909 1904 4 1899	3 5	47 62	1 1	14 11	32 50	220	172 192	16 11	15 25	52 109	126 213	74 104
All other industries	1909 1904 1899	377 351 330	15,293 13,482	298 338	2,003 1,315 878	12,992 11,829 8,712	50,433	69,054 51,992 38,198	2,606 1,719 986	6,937 5,953 4,082	42,348 31,281 27,997	62,815 48,445 38,600	20,467 17,164 10,603
NEW YORK CITY—All industries.	1909 1904 1899	25,938 20,839 19,243	680,510 552,952	29,055 24,650	97,453 63,586 43,783	554,002 464 716 388,586	429,003	\$1,364,353 1,042,946 853,238	\$122,074 73,028 51,656	\$323,698 248,128 196,656	\$1,092,155 818,029 634,210	\$2,029,693 1,526,523 1,172,870	\$937,538 708,494 538,660
Artificial flowers and feathers and plumes.	1909 1904	312 146	9,759 3,707	411 202	899 210	8,449 3,295	201	7,903 1,849	1,023 175	3,435 1,094	12, 237 1, 447	21,098 3,966	8,861 2,511
Artificial stone	1899 1909 1904 4 1899	152 24 12	4,446 266 572	224 13 13	229 26 47	3,993 227 512	222	2, 965 507 532	227 25 65	1, 251 150 329	2,190 195 249	4, 997 486 828	2,807 291 579
Automobiles, including bodies and parts.	1909 1904 1899	56 14 3	2,326 631	31 8	316 70	1,979 553	1,460	3,713 1,422	492 80	1,585 493	2,636 757	6,194 1,399	3,558 642
Bags, paper	1909 1904 1899	9 9 12	441 238	9	65 34 46	367 195 369	200	89 945 181 1,336	180 53 55	156 72 113	1,058 397 632	1,682 610 1,051	624 213 419
	<sup>8</sup> Figur	es can n					lisclosure o isclosure of tal operatio	f individua individual ons.	l operation operations				

## STATISTICS OF MANUFACTURES.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSONS	ENGAGE	D IN INDU	JSTRY.							Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			Е	xpressed	in thousand	ls.	
NEW YORK CITY—Contd.													
Baskets, and rattan and willow ware	1909 1904 1899	26 30 37	462 527 342	26 34 39	35 36 12	401 457 291	129	\$402 456 224	\$38 34 15	\$280 212 111	\$413 374 208	\$986 994 418	\$573 620 210
Belting and hose, leather	1909 1904 1899	18 14 12	451 357 571	15 14 9	138 73 84	298 270 478	892	2,396 1,377 2,064	177 85 <b>11</b> 5	188 146 279	2,032 1,612 2,211	3,670 2,421 2,996	1,638 809 785
Bicycles, motorcycles, and parts	1909 1904 1899	5 6 15	33 26 65	7 7 16	2 7	24 19 42	15	36 32 72	3	13 10 23	32 25 53	68 45 124	36 20 71
Blacking and cleansing and polishing preparations.	1909 1904 1899	60 46 39	677 600 558	46 41 46	225 147 130	406 412 382	236	867 864 692	233 184 168	177 174 175	996 990 824	1,998 1,879 1,612	1,002 889 788
Bluing	1909 1904 1899	4 7 10	26 64 91	3 5 13	8 8 15	15 51 63	10	19 60 86	7 10 14	7 25 27	35 89 98	70 173 217	35 84 119
Boots and shoes, including out stock and findings.	1909 1904 1899	181 130 173	9,177 6,672 6,325	194 176 222	783 392 366	8,200 6,104 5,737	2, 559	8,809 5,814 4,644	996 396 357	4, 464 2, 959 2, 574	9,950 7,828 6,118	18,376 13,687 10,641	8,426 5,859 4,523
Boxes, eigar	1909 1904 1899	31 31 34	1,396 1,575 992	32 38 41	108 95 45	1,256 1,442 906	913	930 888 592	139 113 39	558 630 365	916 912 571	1,843 1,919 1,171	1,007 600
Boxes, fancy and paper	1909 1904 1899	211 170 159	8,018 7,968 5,956	244 198 202	564 558 326	7,210 7,212 5,428	1,696	4,601 4,066 2,174	623 601 275	2,849 2,545 1,848	4,013 3,576 2,209	9,450 8,726 5,759	5, 437 5, 150 3, 550
Brass and bronze products	1909 1904 1899	163 131 1 128	4, 197 3, 147 2, 450	157 156 154	476 275 155	3,564 2,716 2,141	3,054	6,265 3,891 2,729	608 313 184	2,116 1,503 1,090	3,945 2,038 1,937	8,755 5,004 4,074	4,810 2,966 2,137
Bread and other bakery products	1909 1904 1899	2,378 1,976 1,966	20, 401 15, 692 14, 369	2,511 2,053 2,037	2,369 892 1,417	15,521 12,747 10,915	6,642	25,796 16,398 13,799	1,955 724 1,113	10,375 7,594 5,744	37,957 26,474 17,559	61,904 44,000 32,239	23, 947 17, 526 14, 680
Brooms and brushes	1909 1904 1899	94 89 84	1,609 1,796 1,626	106 102 99	186 174 131	1,347 1,520 1,396	652	1,788 2,019 1,575	181 146 99	609 625 550	1,579 1,665 1,296	3,107 3,033 2,448	1,528 1,368 1,152
Buttons	1909 1904 1899	147 46 33	3,635 2,028 1,471	203 61 41	260 157 50	3,172 1,810 1,380	1,024	2,470 854 553	295 147 47	1,349 641 483	2,352 881 609	5,235 2,205 1,457	2,883 1,324 848
Canning and preserving	1909 1904 1899	73 2 76 72	1,340 1,394	73 91	233 175 175	1,034 1,128 990	1,189	3,428 2,617 2,739	266 207 209	489 466 378	3,491 3,310 2,199	5,538 5,365 3,622	2,047 2,055 1,423
Carpets and rugs, other than rag	1909 1904 1899	5 4 4	256 1,188 1,679	7 6	34 27 63	215 1,155 1,616	196	312 612 2,029	35 34 103	89 464 598	119 1,383 1,317	358 1,981 2,468	239 598 1,151
Carpets, rag	1909 1904 1899	10 13 21	65 68 50	10 16 22	8	47 52 26	25	35 31 24	6	26 24 11	29 20 11	92 71 42	63 51 31
Carriages and wagons and materials.	1909 1904 1899	195 197 209	2,379 2,953	231 233	132 183 115	2,016 2,537 2,343	1,950	3,168 3,774 3,467	203 246 126	1,326 1,636 1,508	1,566 1,411 1,361	4,165 4,542 4,159	2,599 3,131 2,798
Cars and general shop construction and repairs by steam-railroad com- panies.	1909 1904 1899	3 6 10	1,619 1,209 992		102 43 44	1,517 1,166 948	1,186	1,181 1,003 745	100 42 30	925 733 558	986 684 533	2,052 1,474 1,135	1,066 790 602
Cars and general shop construction and repairs by street-railroad com- panies.	1909 1904 1899	13 5 6	3, 685 3, 489 2, 168		214 150 37	3,471 3,339 2,131	3,207	9, 099 4, 502 5, 945	21 149 46	2,236 2,055 1,509	2,544 1,115 1,363	5,312 3,444 3,031	2,768 2,329 1,668
Chemicals	1909 1904 1899	33 34 37	1,812 1,255 1,046	14 21 10	360 239 159	1,438 995 877	4,716	10, 310 5, 468 4, 437	624 394 215	981 570 479	9,219 6,517 3,415	12,945 9,033 5,267	3,726 2,516 1,852
Clocks and watches, including cases and materials.	1909 1904 1899	20 20 2 21	1,576 1,915 2,150	8 17 14	151 101 85	1,417 1,797 2,051	490	3, 474 3, 145 3, 192	225 169 149	786 845 819		3,036 3,033 3,481	1,858 1,385 1,475
Clothing, men's, including shirts	1909 1904 1899	2,526 1,851 2,075	77, 543 50, 789	3,656 2,650	6,745 3,821 3,262	67,142 44,318 34,737	7,399	88, 944 50, 489 41, 490	8,037 4,090 3,361	37,978 22,517 17,500	76,453	218, 411 149, 484 117, 206	105, 580 73, 031 57, 571
Clothing, women's	1909 1904 1899	2,995 2,140 1,607	110, 567 80, 144 51, 047	4,332 3,214 2,371	1	94, 258 70, 089 44, 715	11,157	80, 762 43, 804 27, 389	13,099 6,255 3,934	53, 518 34, 551 20, 929	89,092		121,632 79,327 48,073
Coffee and spice, roasting and grinding	1909 1904 1899	61 57 56	2, 080 2, 003 2, 021	71 70 92	680 458 502	1,329 1,475 1,427	3,475	6,103 10,131 8,658	731 541 567	649 757 657	21,814	25,807	3,993

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSO	ns enga	GED IN IN	DUSTRY.		s.					Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm mem-	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				bers.		ber).			I	Expressed	in thousan	ds.	
NEW YORK CITY—Contd.													
Coffins, burial cases, and undertakers' goods.	1909 1904 1899	15 10 14	731 706 686	14 9 15	188 123 85	529 574 586	600	\$2,101 1,409 842	\$199 161 99	\$288 329 317	\$1,213 1,018 454	\$2,102 1,970 1,211	\$889 952 757
Confectionery	1909 1904 1899	127 110 104	7,641 6,202	119 126	1,000 645 533	6,522 5,431 4,454	6, 254	9,030 6,648 4,638	1,289 726 561	2,373 1,944 1,566	12,395 8,448 6,582	20,062 14,045 10,834	7,667 5,597 4,252
Cooperage and wooden goods, not elsewhere specified.	1909 1904 1899	39 45 47	1,200 1,646	42 52	47 55 40	1,111 1,539 1,664	1,215	3,824 2,998 3,082	64 108 67	524 741 773	2, 221 2, 795 2, 262	3,446 4,061 3,544	1,225 1,266 1,282
Copper, tin, and sheet-iron products.	1909 1904 1899	466 343 353	11,399 9,905	437 397	1,118 658 471	9,844 8,850 7,918	6, 415	23, 437 18, 248 9, 866	1,352 865 525	5,786 4,886 4,003	12,057 8,182 6,618	23,303 17,389 14,502	11,246 9,207 7,884
Cordage and twine and jute and linen goods.	1909 1904 1899	1 10 1 11	4,619 3,762 3,349	2 1 4	181 170 93	4,436 3,591 3,252	9, 485	10,060 7,108 6,723	274 249 217	1,601 1,386 1,112	4, 271 6, 124 6, 060	7,374 9,570 8,769	3, 103 3, 446 2, 709
Corsets	1909 1904 1899	39 30 30	2,445 1,107	39 35	278 94 69	2,128 978 1,007	421	2,091 728 574	342 69 90	889 335 289	2,172 500 608	4,610 1,447 1,355	2, 438 947 747
Cotton goods, including cotton small wares.	1909 1904 1899	13 1 5 18	428 89 658	. 14 7 21	46 3 41	368 79 596	415	828 103 801	68 2 57	165 29 197	574 187 672	1,051 260 1,118	477 73 446
Cutlery and tools, not elsewhere specified.	1909 1904 1899	70 78 66	763 574	73 94	104 23 45	586 457 390	377	847 649 1,534	123 25 36	362 288 226	460 283 208	1,346 968 738	880 685 530
Dyeing and finishing textiles	1909 1904 1899	69 39 32	3,198 1,383 1,143	67 54 44	361 105 70	2,770 1,224 1,029	2,738	4,035 1,931 1,709	619 121 80	1,097 569 458	2,727 401 448	6,003 1,707 1,460	3,276 1,306 1,012
Electrical machinery, apparatus, and supplies.	1909 1904 1899	160 133 104	7,002 6,063 5,763	77 81 95	1,239 836 900	5,686 5,146 4,768	6,954	10,623 10,098 8,782	1,574 862 685	3,336 2,460 2,363	6,837 5,506 5,903	14,788 11,008 10,851	7,951 5,502 4,948
Electroplating	1909 1904 1899	97 77 70	652 698	119 97	53 32 15	480 569 400	477	287 309 193	47 43 11	315 333 225	206 316 131	886 983 578	680 667 447
Enameling and japanning	1909 1904 1899	11 26 28	67 1,637 1,558	13 22 33	4 127 49	50 1,488 1,476	48	72 4,246 2,669	3 215 43	22 545 538	17 1,027 1,648	77 2,357 2,869	60 1,330 1,221
Engravers' materials	1909 1904 1899	8 6 6	84 44 62	7 7 7	19 4 8	58 33 47	177	130 74 49	28 9 17	52 20 26	194 79 126	328 127 195	134 48 69
Fancy articles, not elsewhere specified.	1909 1904 1899	156 125 163	3,649 2,549 2,673	172 162 220	532 203 275	2,945 2,184 2,178	2,413	5,483 1,973 2,148	623 183 212	1,448 964 872	2,890 1,761 1,683	6, 987 4, 331 3, 892	4,097 2,570 2,209
Files	1909 1904 1899	6 6	129 84 76	12 8 9	12 3 1	105 73 66	150	109 73 79	13	42 54 36	39 36 16	121 119 71	82 83 55
Flags, banners, regalia, society badges, and emblems.	1909 1904 1899	50 47 42	678 472 389	56 51 49	92 57 49	530 364 291	98	757 750 571	74 49 48	203 127 103	712 458 427	1,347 868 814	635 410 387
Food preparations	1909 1904 1899	95 95 87	2,320 1,698 1,425	102 104 104	404 252 188	1,814 1,342 1,133	2,724	3,428 2,266 1,981	630 390 206	797 474 437	4, 983 2, 928 2, 699	8,046 5,094 4,443	3,063 2,166 1,744
Foundry and machine-shop products.	1909 1904 1899	923 1 810 2 871	29, 200 29, 075	758 801	4, 428 3, 394 2, 578	24, 014 24, 880 27, 198	33, 453	82,973 63,889 58,929	6,026 4,307 3,333	16,736 16,245 16,165	24, 058 21, 040 26, 468	63,853 57,937 61,182	39,795 36,897 34,714
Fur goods	1909 1904 1899	821 573 512	10,719 6,946 5,578	1,264 906 765	1,631 742 629	7,824 5,298 4,184	857	18,636 10,791 6,918	1,693 764 617	5, 483 3, 278 2, 386	23, 434 14, 733 8, 433	39,874 25,279 15,239	16, 440 10, 546 6, 806
Furnishing goods, men's	1909 1904 1899	313 223 217	8,051 7,510	409 322	1,347 940 883	6, 295 6, 248 7, 945	498	10,326 7,133 7,673	1,688 752 920	2,998 2,151 2,845	15,*545 9,804 11,062	25, 496 16, 613 18, 708	9,951 6,809 7,646
Furniture and refrigerators	1909 1904 1899	406 312 200	9,878 7,700 7,987	464 410 268	1,000 599 540	8, 414 6, 691 7, 179	6, 993	11, 446 7, 225 7, 808	1,179 734 622	5,359 4,146 4,087	8,731 5,857	19, 439 13, 934 14, 004	10,708 8,077 8,054
Furs, dressed.	1909 1904 1899	49 49 35	880 852 520	64 64 40	68 50 23	748 738 457	1, 137	735 602 431	86 62 25	512 517 297	5, 950 253 380 235	1,209 1,400 749	956 1,020 514
Gas and electric fixtures and lamps and reflectors.	1909 1904 1899	149 117 96	5,900 3,974 3,191	127 100 103	916 538 384	4,857 3,336 2,704	2,899	8,383 5,462 3,817	1,254 777 456	2,915 1,836 1,465	4,349 3,050 1,884	10,750 7,456 4,964	6,401 4,406 3,080

 $<sup>^1</sup>$  Excluding statistics for two establishments, to avoid disclosure of individual operations.  $^2$  Excluding statistics for one establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	S ENGAG	ED IN INI	OUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm mem- bers.	Salaried employ- ees.	Wage earners (average num- ber).	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
NEW YORK CITY—Contd.													
Gas, illuminating and heating	1909 1904 1899	15 12 13	6,296 6,324 5,026		1,970 1,207 961	4,326 5,117 4,065	23,177	\$203,758 164,523 134,178	\$2,320 1,396 1,031	\$3,115 3,675 3,037	\$12,736 9,347 5,041	\$34,117 29,715 17,116	\$21,381 20,368 12,075
Glass	1909 1904 1899	9 10 9	948 1,160 1,046	3 4 6	61 61 46	884 1,095 994	450	1,267 1,160 849	95 88 49	487 627 441	281 498 287	1,128 1,552 940	847 1,054 653
Glass, cutting, staining, and ornamenting.	1909 1904 1899	111 94 108	2,360 1,831 1,557	126 121 141	182 101 114	2,052 1,609 1,302	529	1,908 1,032 1,107	250 135 111	1,352 1,024 759	1,130 756 1,138	3,448 2,577 2,641	2,318 1,821 1,503
Gloves and mittens, leather	1909 1904 1899	38 17 34	465 293 548	46 23 38	23 8 27	396 262 483	17	316 147 245	25 5 25	195 127 192	291 159 236	668 374 586	377 215 350
Gold and silver, leaf and foil	1909 1904 1899	34 37 36	402 481 509	39 47 43	15 37 20	348 397 446	41	285 396 402	10 30 22	201 220 200	476 505 652	833 945 1,184	357 440 532
Gold and silver, reducing and refining, not from the ore.	1909 1904 1899	10 5 14	64 43 80	13 6 18	9 3 8	42 34 54	97	540 317 602	13 20 10	34 27 39	2,396 3,689 4,314	2,603 3,776 4,528	207 87 214
Hair work	1909 1904 1899	126 39 44	2,704 492	160 49	253 68 22	2,291 375 353	2	3,250 679 446	230 57 19	1,050 162 139	4,482 461 277	7,817 998 771	3,335 537 494
Hand stamps and stencils and brands.	1909 1904 1899	46 47 50	436 376 428	45 54 61	75 39 22	316 283 345	104	364 281 359	83 49 25	191 145 166	155 96 128	578 452 552	423 356 424
Hats and caps, other than felt, straw, and wool.	1909 1904 1899	226 188 256	3,822 3,856 4,686	324 302 372	288 173 188	3,210 3,381 4,126	399	2,688 1,819 2,475	378 187 189	1,940 1,795 1,896	3,730 3,196 4,055	7,515 6,657 7,932	3,785 3,461 3,877
Hats, fur-felt	1909 1904 1899	33 30 7	1,993 1,842 1,471	32 34 4	191 123 72	1,770 1,685 1,395	781	2,947 2,336 1,447	222 132 139	1,084 1,065 867	2,567 1,619 891	4,765 3,899 2,241	2,198 2,280 1,350
Hosiery and knit goods	1909 1904 1899	180 102 73	6,082 4,329 2,713	203 120 88	498 184 167	5,381 4,025 2,521	1,551	8,003 4,582 2,727	653 220 195	2,353 1,451 1,924	7,515 3,149 1,832	13,565 6,235 3,628	6,050 3,086 1,796
House-furnishing goods, not elsewhere specified.	1909 1904 1899	73 49 51	899 1,055 1,429	86 56 65	111 140 151	702 859 1,213	338	1,225 1,193 979	113 113 118	341 381 418	1,503 1,362 1,794	2,534 2,471 2,891	1,031 1,109 1,097
Ice, manufactured	1909 1904 1899	37 35 26	803 584 314	11 · 11 13	107 69 45	685 504 256	14,794	4,454 5,125 2,043	200 74 38	547 363 163	839 523 231	2,813 1,502 900	1,974 979 669
Ink, printing.	1909 1904 1899	26 24 22	883 422 336	18 28 22	357 123 123	508 271 191	2,199	2,998 1,372 1,057	574 181 152	358 179 117	1,850 1,070 681		2,115 1,186 700
Ink, writing	1909 1904 1899	6 6	213 171 118	5 8 8	62 36 13	146 127 97	58	602 542 431	120 78 26	62 52 47	283 214 255	737 562 499	454 348 244
Instruments, professional and scientific.	1909 1904 1899	63 61 81	1,358 777 759	55 58 106	222 72 71	1,081 647 582	1,416	2,420 820 761	272 85 59	678 375 344	654 300 255	1,909 1,109 983	1,255 809 728
Jewelry	1909 1904 1899	438 263 229	6,668 4,615 3,448	553 376 333	1,076 502 282	5,039 3,737 2,833	1,445	12, 253 8, 230 5, 454	1,091 542 270	3,617 2,436 1,901	10,004 5,643 5,160	19,236 11,348 9,712	9,232 5,705 4,552
Jewelry and instrument cases	. 1909 1904 1899	57 47 33	878 781 465	66 65 42	76 68 28	736 648 395	93	761 536 318	75 66 19	395 292 180	532 437 235	1,102	821 665 423
Kaolin and ground earths	. 1909 1904 1899	10 6 5	107 150 49	8 7 9	10 14	89 129 38	345	135 245 78	14 24 3	47 75 22	138 204 73	376	107 172 61
Lasts.	. 1909 1904 1899	6 6 8	225 176 120	2 4 7	28 13 10	195 159 103	285	197 166 79	53 23 13	135 95 58	144 52 50	259	311 207 136
Lead, bar, pipe, and sheet	1	6 6 5	211 177 106	1 3 7	33 27 22	177 147 77	1,127	945 681 535	72 50 28	114 93 42	2,700	1,891 3,098 1,592	317 398 282
Leather goods	l.	389 331 277	7,672 7,356	485 440	886 579 475	6,301 6,337 4,658	946	7,912 5,524 4,406	542	3,440 2,711 2,046	10,049 7,955	17,775 14,525	6,570
Leather, tanned, curried, and finished		20 21 17	533 691 804	18 29 25	62 56 29	453	985	1,177 1,684 2,365	63	235 299 362	1,276 1,598 2,474	2,228	670 630 857

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

# CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	S ENGAG	ED IN INI	OUSTRY.						,	Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm mem-	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				bers.		ber).				Expre	ssed in thou	sands.	
NEW YORK CITY—Contd. Liquors, malt	1909	74	6,878	20 25	1,065	5,793	31,378	\$87,006	\$3,345	\$4,936	<b>\$</b> 12,797	\$53,469	\$40,67
I calcing along and relations for any	1904 1899	89 89	6,591 5,845	30	1,122 991	5, 444 4, 824		75,699 65,586	3,028 2,543	4,513 3,854	10,991 7,689	43,168 39,106	42,17 31,41
Looking-glass and picture frames	1909 1904 1899	115 96 106	1,509 1,217	122 112	207 127 119	1,180 978 1,140	543	1,609 903 1,077	256 148 131	711 567 611	1,230 $725$ $1,110$	2,991 2,046 2,627	1,761 1,321 1,517
Lumber and timber products	1909 1904 1899	275 257 196	9, 292 8, 711 6, 089	255 327 246	887 728 403	8, 150 7, 656 5, 440	19,240	17, 227 14, 273 8, 611	1,152 929 474	5,214 $4,544$ $3,054$	14,104 9,972 8,303	24,122 $21,219$ $14,352$	10,018 11,247 6,049
Marble and stone work	1909 1904 1899	247 168 193	4,795 5,389	255 215	478 409 282	4,062 4,765 4,217	10,711	10,055 7,556 6,513	738 552 341	3,785 4,384 3,179	5,056 4,474 3,954	12,205 11,915	7,149 7,441
Mattresses and spring beds	1909 1904 1899	122 92 95	1,454 1,195 1,078	130 115 122	211 131 104	1,113 949 852	819	2,046 1,092 813	192 119 130	668 525 443	2,601 2,025 1,435	10, 244 4, 367 3, 381	6,290 1,766 1,356
Millinery and lace goods	1909 1904 1899	886 548 383	24,712 18,280 12,952	1,181 793 559	2,970 1,816 1,180	20, 561 15, 671 11, 213	3,372	19,413 11,035 7,692	3,178 1,458 1,052	9,419 6,083	26,761 16,714	2,744 51,239 32,343	1,309 24,478 15,629
Mirrors	1909 1904 1899	37 34 31	938 961 1,055	46 54 51	110 98 91	782 809 913	835	1,329 1,058 1,427	128 91 107	4,014 502 428 509	11,164 1,582 1,809 2,467	20,984 2,612 2,743	9,820 1,030 934
Models and patterns, not including paper patterns.	1909 1904 1899	96 62 72	1,094 653 527	110 76 87	130 75 26	854 502 414	526	1,254 641 410	169 71 27	563 292 297	560 280 182	3,884 2,095 1,015 766	1,417 1,535 735 584
Musical instruments and materials, not specified.	1909 1904 1899	37 45 42	304 485 422	37 49 42	32 34 30	235 402 350	126	354 1,134 997	28 48 39	132 217 197	168 257 209	469 737 566	301 480 357
Musical instruments, pianos and organs and materials.	1909 1904 1899	133 117 105	9,305 8,262 6,246	84 101 121	794 678 376	8,427 7,483 5,749	6,033	23,086 16,638 11,518	1,434 1,056 557	5,773 4,865 3,469	13,191 8,718 5,654	25,516 18,930 12,881	12,325 10,212 7,227
Paint and varnish	1909 1904 1899	113 99	4,319 3,816	60 86	1, 457 815	2,802 2,915	8,925	20, 267 17, 837	2,134 1,194	1,733 1,657	16,813 15,725	$26,664 \\ 22,830$	9,851 7,105
Paper goods, not elsewhere specified	1909 1904 1899	93 82 1 65 1 66	3, 239 4, 271 3, 415	55 71	708 731 341	2,491 3,485 3,003	3,311	15,830 6,525 4,561	1,270 894 462	1,401 1,428 1,070	11,476 4,566 3,349	17,553 8,833 6,197	6,077 4,267 2,848 2,257
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	433 371 277	2,664 5,450 4,482 4,588	75 291 296 265	330 1,987 1,359	3,172 2,827	2,928	3,929 12,866 10,062	400 2,873 1,886	1,556 1,289	2,837 9,281 6,231	5,094 24,984 18,116	15,703 11,885
Pens, fountain, stylographic, and gold.	1909 1904 1899	30 24 23	1,108 764 519	25 20 25 25	1, 203 353 131 88	3,120 730 613 406	192	12,425 1,853 881	1,506 374 133	1,268 427 362	7,774 1,563 876	18,413 3,219 1,945	10,639 1,656 1,069
Photo-engraving	1909 1904 1899	46 36 47	1,517 1,065 861	25 26 65	305 171 129	1,187 868 667	275	569 807 768	357 208	1,195 754	500 490 385	1,182 2,517 1,782	2,027 1,397
Pipes, tobacco	1909 1904 1899	21 27 34	1,772 1,183 958	30 41 41	160 36 80	1,582 1,106 837	701	2,148 679 663	121 170 35 73	518 727 508 478	206 1,408 901	1,090 3,137 1,795	1,729 894 871
Pottery, terra-cotta, and fire-clay products.	1909 1904 1899	10 15 17	647 1,140 1,023	2 11 15	65 93 74	580 1,036 934	705	1,589 2,325 1,867	116 143 91	350 524 394	208 337 215	1,673 962 1,292	754 955 930
Printing and publishing	1909 1904 1899	2,883 2,325 1,849	74,118 60,233 47,178	2,352 2,165 1,997	23,444 17,711 8,837	48,322 40,357 36,344	37,835	123, 146 100, 388 79, 577	28,874 19,643 11,187	35,097 27,092 22,589	46, 513 32, 417 26, 101	1,145 183,509 138,502 98,675	136,996 106,085 72,574
Rubber goods, not elsewhere specified.	1909 1904 1899	36 43 50	1,161 2,300 2,118	31 33 55	190 269 192	940 1,998 1,871	2,916	2,861 3,237 3,378	349 387 253	500 796 739	2, 184 3, 003 2, 606	3,647 5,521 4,663	1,463 2,518 2,057
Saws	1909 1904 1899	7 8 6	152 147 16	8 7 6	31 36 1	113 104 9	401	213 319 26	26 27 1	64 51	164 66 8	321 226 28	157 160 20
Sewing machines, cases, and attachments.	1909 1904 1899	10 9 11	80 74 129	6 5 12	18 11	56 58	38	128 81	23 12	34 35	39 23	135 94	96 71
Shipbuilding, including boat building.	1909 1904 1899	71 76 90	4, 328 4, 996 4, 179	66 87 123	240 260 127	75 4,022 4,649	9,756	126 10, 166 8, 804	28 456 377	2,732 3,342	2, 692 2, 969	194 8,389 8,409	146 5,697 5,440
show cases.	1909 1904	17 13	452 272	23 17	50 14	3, 929 379 241	476	5,893 463 166	204 68 16	2,373 206 138	2,009 374 185	6,132 816 462	4,123 442 277
silk and silk goods, including throw- sters.	1899 1909 1904 1899	11 118 84 68	261 8,887 7,901 5,858	12 116 84 70	23 819 700 252	7,952 7,117 5,536	4,589	151 13,147 10,145 7,073	1,054 787 375	120 3,565 2,931 2,230	172 8,490 7,070 4,715	410 16,950 14,036 9,521	238 8,460 6,966 4,806

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

,			PERSON	S ENGAG	ED IN IND	USTRY.							Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	0001	ber).			E	expressed	in thousand	is.	
NEW YORK CITY—Contd.													
Silverware and plated ware	1909 1904 1899	42 32 47	1,852 1,806 2,154	43 36 61	368 216 246	1,441 1,554 1,847	1,144	\$3,794 3,153 3,160	\$398 260 260	\$978 905 1,068	\$1,865 1,472 1,804	\$4,199 3,505 4,106	\$2,334 2,033 2,302
Slaughtering and meat packing	1909 1904 1899	112 63 80	4, 863 2, 633 2, 484	127 84 103	812 380 365	3,924 2,169 2,016	8,715	25,185 12,055 9,458	1,212 558 419	3,171 1,793 1,357	83,834 49,929 38,355	95, 862 55, 938 43, 360	12,028 6,009 5,005
Smelting and refining, not from the ore.	1909 1904 1899	11 8 7	331 187 244	16 9 9	81 33 75	234 145 160	285	2,694 1,197 819	109 79 97	161 86 127	7,776 4,426 1,428	8,417 4,845 2,074	641 419 646
Soap	1909 1904 1899	41 42 50	2, 191 1, 454 1, 223	34 43 50	622 223 192	1,535 1,188 981	3,144	8,912 4,491 4,055	563 300 244	840 574 468	9,169 4,717 4,529	13,925 7,929 7,730	4,756 3,212 3,201
Stationery goods, not elsewhere specified.	1909 1904 1899	49 33 35	788 651 777	46 29 38	200 117 100	542 505 639	245	1,158 1,038 1,091	221 119 97	277 224 257	770 660 635	1,748 1,387 1,512	978 727 877
Steam packing	1909 1904 1899	25 17 21	839 659 148	14 13 22	98 71 43	727 575 83	1,210	2,707 3,927 253	166 142 52	352 263 49	1,197 553 123	2,090 1,524 348	893 971 225
Stereotyping and electrotyping	1909 1904 1899	34 28 26	1,036 833 567	26 36 29	220 120 70	790 677 468	1,180	1,054 1,033 604	300 137 66	771 597 339	547 321 209	1,961 1,380 860	1,414 1,059 651
Stoves and furnaces, including gas and oil stoves.	1909 1904 1899	23 15 7	1,342 430 204	17 16 8	202 59 29	1,123 255 167	2,596	3,185 922 434	280 78 26	746 226 83	1,605 426 413	3,106 1,081 622	1,501 655 209
Surgical appliances and artificial limbs	1909 1904 1899	49 42 46	514 539 271	49 41 48	127 75 46	338 423 177	172	682 507 <b>22</b> 8	139 69 34	208 239 105	381 243 93	1,119 873 480	738 630 387
Tobacco manufactures	1909 1904 1899	2,036 2,173 1,854	26,664 29,294 24,345	2,199 2,350 2,050	1,944 1,495 1,018	22, 521 25, 449 21, 277	2,115	34,003 40,641 16,804	2,607 1,518 1,315	10,307 10,958 9,129	25, 430 19, 522 15, 323	62,488 50,525 41,828	37,058 31,003 26,505
Toys and games	1909 1904 1899	59 35 38	1,284 591 542	61 36 46	128 32 33	1,095 523 463	297	1,075 527 531	121 38 37	415 189 173	753 281 304	1,634 740 736	881 459 432
Type founding and printing materials	1909 1904 1899	23 22 21	260 272 455	17 17 14	54 45 49	189 210 392	217	511 735 878	85 53 71	131 134 218		749 554 781	392 409 529
Typewriters and supplies	1909 1904 1899	27 16 14	905 629 569	19 9 7	226 106 96	660 514 466	407	2,251 1,125 998	248 107 87	385 279 251	322	1,961 1,081 911	1,232 759 642
Umbrellas and canes	1909 1904 1899	134 94 92	2,322 1,812	170 130	255 192 193	1,897 1,490 1,556	495	2,219 1,262 1,551	248 159 156	899 614 601	2,847	6,374 4,689 5,081	2,261 1,842 1,841
Vinegar and cider	. 1909 1904 1899	4 4 8	57 50 74	2 4 8	15 6 3	40 40 63	75	133 96 229	13 4 2	20 16 36	63	131 116 133	48 53 73
Wall paper	. 1909 1904 1899	7 5 12	811 858 1,896	2 2 6	143 73 197	666 783 <b>1,6</b> 93	566	2,020 1,906 3,098	190 96 352	359 391 911	1.069	2, 437 2, 297 3, 888	1,293 1,228 1,883
Wall plaster	1909 1904 1 1899	12 11	912 782	5 9	103 68	804 705	3,730	3,833 2,361	228 95	429 371	1,755 1,456	2,903 2,173	1,148 717
Window shades and fixtures	. 1909 1904 1899	67 32 33	761 694	72 36	167 119 66	522 539 317	130	1,717 993 848	206 131 78	196	1,349	4, 125 1, 979 2, 011	1,110 630 535
Wirework, including wire rope and cable.	1909 1904 1899	67 117 65	1,200 2,066 712	68 155 79	158 237 60	974 1,674 573	724	1,672 1,827 769	215	829	1,134	2,358 3,015 1,090	1,206 1,881 645
Wood, turned and carved	. 1909 1904 1899	82 85 104	1,012 500 673	104 104 126	17	828 379 526	824	910 373 471	17	257	662 260 285	1,707 771 928	1,045 511 643
Woolen, worsted, and felt goods, and wool hats.	1909 1904 1899	11 5 2 9	468 163 989	13 12 11	9	419 142 878	565	1,036 191 1,231	.   10	67	267	1,512 427 1,145	549 160 635
All other industries.	. 1909 1904 1899	1,421 1,292 1,229	38, 104 37, 852	1,461 1,473	5,921 4,166 2,808	30,722 32,213 26,440			5,145	17,811 16,957 12,827	7   203,858	260,509	63,723 56,651 35,693

<sup>&</sup>lt;sup>1</sup> Not reported separately.

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

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	IS ENGA	ED IN IN	OUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	num- ber).			I	Expressed	in thousan	ds.	
NEW YORK CITY—Man- hattan and Bronx Bor- oughs—All industries.	1909 1904 1899	19,769 15,975 14,362	500, 299 410, 324	22,658 19,387	77, 849 51, 716 35, 661	399,792 339,221 285,265	213,964	\$822,726 620,526 511,918	\$94, 971 56, 758 40, 725	\$237, 467 182, 080 146, 505	\$725, 456 507, 030 398, 076	\$1,431,089 1,043,252 810,808	\$705,633 536,222 412,732
Artificial flowers and feathers and plumes.	1909 1904 1899	301 138 142	9,652 3,582 4,387	397 191 215	899 208 229	8,356 3,183 3,943	195	7,838 1,803 2,923	1,023 174 227	3,412 1,071 1,233	12,209 1,429 2,180	21,024 3,900 4,955	8,815 2,471 2,775
Artificial stone	1909 1904 1 1899	10 8	128 332	6 12	10 26	112 294	70	67 116	10 31	96 127	89 91	262 330	173 239
Baskets, and rattan and willow ware.	1909 1904 1899	19 20 18	208 260 129	21 24 20	18 23 1	169 213 108	8	131 80 32	14 15 1	96 107 58	145 86 43	358 274 145	213 188 102
Belting and hose, leather	1909 1904 1899	15 11 8	302 107 441	11 9 6	106 28 66	185 70 369	722	1,732 169 1,762	111 27 79	118 42 229	1,383 232	2,730 378 2,323	1,347 146
Blacking and cleansing and polishing preparations.	1909 1904 1899	49 38 33	594 519 495	34 33 39	213 139 124	347 347 332	206	766 780 642	224 179 162	152 152 147	1,733 824 802 728	1,699 1,609	590 875 807
Bluing	1	4 7 7	26 64 83	3 5 8	8 8 15	15 51 60	10	19 60 76	7 10	7 25 25	35 89	70 173	726 35 84
Boots and shoes, including cut stock and findings.	1909 1904 1899	98 79 112	2,695 2,299 2,488	111 107 143	297 127 168	2,287 2,06,5	590	2,589 2,067	14 292 140	1,170 930	97 3,186 2,997	5,505 4,887	2,319 1,890
Boxes, cigar		24 22 27	1,354 1,517 913	23 28 31	105 91	2,177 1,226 1,398	912	1,875 911 865	149 137 111	1,029. 547 610	2,845 891 883	1,796 1,847	1,933 905 964
Boxes, fancy and paper	1	172 137 139	6,247 5,948	204 163	428 378	5,615 5,407	1,284	3,260 2,560	39 487 366	332 2,270 1,935	3,205 2,781	1,066 7,489 6,584	539 4,284 3,803
Brass and bronze products	1909 1904	116 93	5, 294 2, 694 2, 100	178 119 115	290 298 147	4,826 2,277 1,838	1,957	1,950 4,150 2,643	243 381 184	1,664 1,360 1,038	2,036 2,442 1,434	5, 240 5, 424 3, 487	3,204 2,982 2,053
Bread and other bakery products	1904	92 1,325 1,070	1,823 13,772 10,550	1,415 1,120	122 1,444 605	1,591 10,913 8,825	5,377	2,005 19,174 12,329	153 1,268 526	7,107 5,080	1,249 25,703 17,946	2,892 41,878 29,880	1,643 16,175 11,934
Brooms and brushes	1899 1909 1904	1,011 65 59	9,825 1,074 1,072	1,062 76 71	1,085 131 104	7,678 867 897	196	10,027 994 984	890 131 88	3,804 400 375	12,066 1,036 1,066	21,946 2,097 1,847	9,880 1,061 781
Buttons	1899 1909 1904	52 128 41	901 2,661 1,866	63 177 55	66 225 127	772 2,259 1,684	480	802 1,809 806	58 238 136	308 974 614	1,866 843	1,498 4,142 2,109	670 2,276 1,266
Canning and preserving	1899 1909 1904	30 47 2 52	1,206 1,077 1,027	39 45 68	48 184 156	1,119 848 803	978	2,893 2,238	216 171	417 413 337	522 2,780	1,235 4,524	713 1,744
Carpets, rag	1899 1909 1904	<sup>8</sup> 47 4 6	34	4 8	125	546 27	18	919	148	234 13	2,393 1,501	4,139 2,475 43	1,746 974 29
Carriages and wagons and materials	1899 1909 1904	10 111 2 111	35 30 1,542 1,942	11 130	90	27 17 1,322 1,673	1,164	7 15 1,832	1 162	12 8 853	8 7 1,075	32 26 2,804 3,111	24 19 1,729 2,221
Clocks and watches, including cases and materials.	1899 1909 1904	3 111   13   12	197	129	140 100 52	1,662	49	1,832 2,781 2,508	198 111 74	1,134 1,100	890 926 128	2,961 432	2,035 304
Clothing, men's, including shirts	1899 1909	48	182 133 59,473	10 6 2,898	27 13 6,199	145 114 50,376	4,833	524 156 82,224	37 24 7,466	111 97	207 171 106,654	517 367 199,095	310 196 92,441
Clothing, women's	1904 1899 1909	1,954 1,464 1,561	40,750 102,947	2,175	3,627 3,160	34,948 27,346		48,057 39,226	7,466 3,767 3,218	29,386 18,579 14,417	73,673 57,959	140,393 110,653	92,441 66,7 <b>2</b> 0 52,694
Coffee and spice, roasting and grinding	1909 1904 1899 1909	2,696 1,981 1,479 53	76,383 48,152 1,378	3,946 3,003 2,219	11,620 6,734 3,868	87,381 66,646 42,065	9,359	77,195 42,670 26,386	12,769 6,166 3,856	50, 491 33, 293 19, 933	140,222 87,443 53,373	256, 558 164, 723 99, 465	116,336 77,280 46,092
Confectionery	1904 1899 1909	45 41	998 928	66 58 65	567 304 332	745 636 531	2,325	3,117 4,236 2,374	615 354 345	371 351 251	7,014 8,406 4,594	9,657 10,533 6,444	2,643 2,127 1,850
	1904 1899	95 80 72	5,768 4,900	89 94	746 532 413	4,933 4,274 3,145	5,114	7,146 5,135 3,044	1,007 598 412	1,845 1,553 1,157	10,135 6,961 4,681	16,215 11,579 7,613	6,080 4,618 2,932
Cooperage and wooden goods, not elsewhere specified.	1909 1904 1899	21 20 30	130 283	26 27	10 13 16	94 243 279	95	159 279 414	7 12 20	62 156 172	108 361 421	253 632 777	145 271 356
Copper, tin, and sheet-iron products	1909 1904 1899	308 258 262	4,983 4,096	279 291	608 363 214	4,096 3,442 2,923	2,325	6,743 5,564 3,580	748 451 245	2,659 2,181 1,865	4,760 3,152 3,225	10,307 7,698 7,218	5,547 4,546 3,993

Not reported separately.
 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 three establishments, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

#### CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued. .

·			PERSONS	ENGAGI	ED IN IND	USTRY.				-			Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
****				mem- bers.	ees.	num- ber).			E	xpressed	in thousand	ls.	
NEW YORK CITY—Man- hattan and Bronx Bor- oughs—Continued.					o								
Corsets	1909 1904 1899	35 26 25	2,246 864	34 30	252 81 59	1,960 753 785	378	\$1,863 647 451	\$317 56 80	\$839 257 224	\$2,039 453 494	\$4,290 1,168 1,104	\$2,251 715 610
Cutlery and tools, not elsewhere specified.	1909 1904 1899	48 53 45	514 416	50 62	75 21 33	389 333 235	260	556 466 1,302	102 23 26	265 215 130	280 223 152	968 766 489	688 543 337
Dyeing and finishing textiles	1909 1904 1899	54 29 21	2,660 1,036 887	56 38 27	301 63 46	2,303 935 814	1,956	3,305 1,444 1,270	501 79 60	870 437 359	2,372 294 347	5,110 1,248 1,132	2,738 954 785
Electrical machinery, apparatus, and supplies.	1909 1904 1899	134 116 90	6,017 5,520 5,265	64 67 79	1,074 769 842	4,879 4,684 4,344	5,579	8,457 9,657 8,343	1,329 797 640	3,003 2,212 2,197	5,174 5,005 5,504	12,012 10,022 10,081	6,838 5,017 4,577
Electroplating.	1909 1904 1899	84 68 61	564 614	99 82	52 25 14	413 507 335	382	246 269 165	45 40 11	277 298 191	188 299 114	789 899 505	601 600 391
Fancy articles, not elsewhere specified.	1909 1904 1899	125 1 98 146	2,280 1,705 2,335	146 124 196	396 150 245	1,738 1,431 1,894	545	3,025 1,472 1,904	391 137 183	806 624 782	1,942 1,271 1,531	4,403 3,130 3,521	2,461 1,859 1,990
Flags, banners, regalia, society badges, and emblems.	1909 1904 1899	39 40 33	647 455 337	45 44 39	92 57 48	510 354 250	96	745 738 550	74 49 47	194 123 87	699 452 407	1,310 844 754	611 392 347
Food preparations,	1909 1904 1899	53 61 55	1,429 1,211 995	60 56 55	236 214 158	1,133 941 782	. 1,731	2,028 1,640 1,193	387 346 183	530 348 321	3,350 2,269 2,050	5,331 4,039 3,467	1,981 1,770 1,417
Foundry and machine-shop products.	1909 1904 1899	566 <sup>2</sup> 514 <sup>2</sup> 574	12,851 14,598 17,415	479 508 636	1,982 1,645 1,536	10,390 12,445 15,243	11,331	26, 212 25, 627 26, 892	2,483 2,043 1,935	7,163 8,300 9,369	11,372 11,460 14,989	27, 419 29, 780 34, 699	16,047 18,320 19,710
Fur goods	1909 1904 1899	804 558 482	10,271 6,679 5,228	1,247 889 728	1,551 709 580	7,473 5,081 3,920	754	17,826 10,201 6,285	1,629 730 574	5,323 3,158 2,232	22,729 14,349 8,018	38,682 24,613 14,444	15,953 10,264 6,426
Furnishing goods, men's	1909 1904 1899	297 8 199 206	7,474 6,001	389 288	1,273 834 839	5,812 4,879 7,146	431	9,616 6,472 7,181	1,621 699 894	2,828 1,811 2,607	15, 058 8, 889 10, 668	24,640 14,986 17,540	9,582 6,097 6,872
Furniture and refrigerators	1909 1904 1899	320 248 160	7,000 5,712 6,441	349 314 209	740 474 446	5,911 4,924 5,786	4,498	8,128 5,415 6,535	841 549 515	3,854 3,192 3,398	5,820 4,538 4,750	13, 537 10, 838 11, 391	7,717 6,300 6,641
Gas and electric fixtures and lamps and reflectors.	1909 1904 1899	122 96 72	4,994 3,259 2,669	98 83 77	779 445 315	4,117 2,731 2,277	2,335	7,084 4,663 3,070	1,065 663 383	2,494 1,530 1,234	3,649 2,546 1,648	9,179 6,281 4,279	5,530 3,735 2,631
Gas, illuminating and heating	1909 1904 1899	6 5 5	2,998 3,738 3,636		1,171 742 765	1,827 2,996 2,871	9,216	92, 654 79, 681 65, 219	1,403 899 834	1,310 2,175 2,052	7, 242 5, 322 3, 234	17,923 17,818 10,797	10,681 12,496 7,563
Glass, cutting, staining, and ornamenting.	1909 1904 1899	69 64 77	1,375 1,131 1,197	78 76 104	128 72 95	1,169 983 998	287	1,265 803 897	179 106 96	815 654 602	660 482 942	2,054 1,710 2,143	1,394 1,228 1,201
Gold and silver, leaf and foil	1909 1904 1899	15 18 17	268 349 328	18 27 22	13 37 19	237 285 287	20	203 344 318	9 30 22	145 172 139	336 404 514	610 755 931	274 351 417
Hair work.	1909 1904 1899	120 35 36	2,627 455	152 45	251 68 20	$2,224 \begin{vmatrix} 342 \\ 328 \end{vmatrix}$	2	$3,180 \\ 641 \\ 427$	230 57 18	1,031 155 131	4, 433 448 266	7,716 970 734	3,283 522 468
Hats and caps, other than felt, straw, and wool.	1909 1904 1899	205 180 237	3,190 3,442 4,521	297 287 349	240 160 174	2,653 2,995 3,998	264	2, 191 1, 583 2, 409	303 174 177	1,648 1,654 1,858	3,184 2,958 3,902	6,400 6,103 7,659	3,216 3,145 3,757
Hats, fur-felt.	1909 1904 1899	26 23 3	690 549 182	28 31	92 56 23	570 462 159	198	722 269 60	90 49 16	366 279 68	1, 271 657 181	2,108 1,242 342	837 585 161
Hosiery and knit goods	1909 1904 1899	54 36 32	1,270 1,137 1,224	71 39 38	179 127 100	1,020 971 1,086	160	1,661 889 1,084	173 119 103	440 323 362	1, 964 975 738	3,505 1,967 1,491	1,541 992 753
House-furnishing goods, not elsewhere specified.	1909 1904 1899	64 43 40	759 871 983	76 51 50	99 122 107	584 698 826	258	996 980 601	101 95 90	291 304 272	1, 298 1, 144 1, 491	2, 185 2, 074 2, 281	887 930 790
Ice, manufactured	1909 1904 1899	16 17 8	482 392 135	2 6 2	64 37 12	416 349 121	8,146	2,330 3,707 1,063	90 38 13	326 261 76	556 369 117	1,870 1,075 494	1,314 706 377
Ink, printing.	1909 1904 1899	14 16 14	478 242 199	12 23	208 75 60	258 144 119	1,321	1,952 764 754	364 99	166 95 73	851 531 428	2,038 1,292 827	1,187 761 399

Excluding statistics for nine establishments, to avoid disclosure of individual operations.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Excluding statistics for five establishments, to avoid disclosure of individual operations.

TABLE T.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSO	NS ENGA	GED IN IN	DUSTRY.					One:		Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	665.	ber).				Expresse	d in thousar	ıds.	
NEW YORK CITY—Man- hattan and Bronx Bor- oughs—Continued.						**							
Instruments, professional and scientific.	1909 1904 1899	40 41 55	433 437 415	29 33 67	77 40 40	327 364 308	209	\$649 402 432	\$81 46 33	\$217 209 180	\$246 176 169	\$714 680 612	\$468 50 <b>4</b> 443
Jewelry	1909 1904 1899	414 255 221	6,391 4,543 3,341	524 363 319	1,043 498 278	4,824 3,682 2,744	1,351	11,926 8,159 5,106	1,073 538 265	3,482 2,407 1,839	9,348 5,605 4,762	18,305 11,253 9,173	8,957 5,648 4,411
Jewelry and instrument cases	1909 1904 1899	54 44 28	792 605 376	· 61 35	68 59 24	660 575 317	92	641 501 282	69 54 18	372 275 161	503 419 219	1,285 1,043 601	782 024 382
Leather goods	1909 1904 1899	327 290 236	6,995 6,913	418 392	814 558 469	5,763 5,963 4,410	853	6,939 5,088 4,228	930 517 430	3,214 2,552 1,943	9,407 7,665 5,345	16,452 13,917 9,993	7,045 6,252 4,648
Leather, tanned, curried, and finished.	1909 1904 1899	9 9 8	137 170	6 16	34 17 12	97 137 149	248	495 457 1,072	55 16 10	65 83 83	512 408 592	821 615 771	309 207 179
Liquors, malt	1909 1904 1899	36 41 42	4,334 3,782 3,506	11 17 19	651 592 567	3,672 3,173 2,920	20,696	56, 208 50, 004 46, 281	1,906 1,650 1,506	3,102 2,674 2,335	8,231 6,548 4,738	34,412 26,195 24,460	26, 181 19, 647 19, 722
Looking-glass and picture frames	1909 1904 1899	94 85 89	1,210 1,138	98 101	181 126 111	931 911 1,076	334	1,248 819 995	229 147 126	578 536 579	958 647 1,040	2,387 1,894 2,476	1,429 1,247 1,436
Lumber and timber products	1909 1904 1899	167 1 169 123	3,835 4,055 2,932	163 220 145	450 417 226	3, 222 3, 418 2, 561	7,026	5,547 5,294 3,872	542 531 254	2,244 2,273 1,459	5,177 4,570 3,949	9,787 9,713 6,980	4,610 5,143 3,031
Marble and stone work		96 2 89 105	2,331 3,740	101 113	257 303 233	1,973 3,324 2,846	6,330	5,268 4,864 3,936	405 417 274	1,863 3,098 2,136	2,799 3,085 2,633	6,397 8,260 7,017	3,598 5,175 4,384
Mattresses and spring beds		88 71 73	1,139 981 972	92 88 96	165 112 101	882 781 775	655	1,778 853 752	152 106 129	543 440 403	2,180 1,785 1,330	3,607 2,930 2,530	1,427 1,145 1,200
Millinery and lace goods	1909 1904 1899	821 515 361	22,490 17,286 12,304	1,103 750 534	2,789 1,725 1,161	18,598 14,811 10,609	2,972	17,863 10,529 7,556	2,986 1,397 1,029	8,690 5,800 3,875	25,095 16,281 10,972	47,916 31,311 20,513	22,821 15,030 9,541
Mirrors	1909 1904 1899	31 29 30	759 820 989	41 50 50	89 82 86	629 688 853	639	1,115 924 1,352	100 76 100	415 381 484	1,398 1,702 2,444	2,250 2,531 3,806	852 829 1,362
Models and patterns, not including paper patterns.	1909 1904 1899	74 53 50	893 580 382	84 59 57	109 69 23	700 452 302	395	1,080 594 316	155 66 24	459 262 188	451 251 134	1,745 913 540	1,294 662 406
Musical instruments and materials, not specified.	1909 1904 1899	29 38 32	226 413 361	31 42 32	25 31 26	170 340 303	82	273 1,069 903	20 43 36	98 182 176	96 235 187	296 654 495	200 419 308
Musical instruments, pianos and organs and materials.	1909 1904 1899	121 102 93	8,031 6,903 5,344	69 76 105	748 549 341	7,214 6,278 4,898	4,744	20,034 12,254 9,420	1,373 921 495	4,924 4,014 2,907	12,414 7,301 5,086	23,511 16,102 11,396	11,097 8,801 6,310
Paint and varnish	1909 1904 1899	27 29 35	580 695	16 30	226 175 209	338 490 685	726	1,427 1,822 2,260	215 168 258	236 284 415	1,549 1,776 2,917	2,560 2,679 4,309	1,011 903 1,392
Paper goods, not elsewhere specified	1909 1904 1899	62 2 50 2 53	2,886 2,297 1,768	38 53 59	589 242 247	2,259 2,002 1,462	1,476	4,339 2,499 2,570	644 298 276	929 662 565	2,899 1,886	5,763 3,811	2,864 1,925 1,550
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	354 304 219	3, 902 3, 654 2, 916	245 252 213	1,454 1,061 884	2, 203 2, 341 1, 819	1,430	8,882 7,133 7,628	2,172 1,468	1,093 1,037	1,686 6,153 5,215	3,236 18,305 15,047	12, 152 9, 832 7, 977
Pens, fountain, stylographic, and gold.	1909 1904 1899	25 22 22 22	1,025 743 508	21 18 22	341 131 88	663 594 398	177	1,783 874 561	1,091 359 133	730 389 352	3,979 1,460 854	3,017 1,904	1,557 1,050 675
Photo-engraving	1909 1904 1899	46 35 46	1,517 1,025 860	25 26 64	305 169 129	1,187 830 667	275	807 728 491	103 357 201	236 1,195 737	494 490 362	2,517 1,722	2,027 1,360
Pipes, tobacco	1909 1904 1899	13 20 28	468 584 914	14 29 35	36 16 79	418 539 800	124	351 343 650	121 31 20 72	518 205 276	206 451 507	1,090 858 1,002	884 407 495
Printing and publishing	1909 1904 1899	2, 525 2, 054 1, 626	l li	1,979 1.881	22, 038 16, 885 8, 275	41,505 35,684	32,366	106,826 89,154 73,116	27, 189 18, 636 10, 590	30, 899 24, 347 20, 699	783 41,062 29,487 24,162	1,626 168,176 128,971 92,301	843 127,114 99,484 68,139

 $<sup>^2</sup>$  Excluding statistics for five establishments, to avoid disclosure of individual operations.  $^2$  Excluding statistics for one establishment, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

#### CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	S ENGAG	ED IN IND	USTRY.							Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	ber).			E	expressed	in thousand	is.	
NEW YORK CITY—Man- hattan and Bronx Bor- oughs—Continued.													
Rubber goods, not elsewhere specified.	1909 1904 1899	28 33 45	372 1,282 1,410	24 24 51	86 167 166	262 1,091 1,193	72	\$542 1,716 1,944	\$103 205 212	\$160 369 442	\$768 2,000 2,043	\$1,305 3,791 3,682	\$537 1,791 1,639
Saws	1909 1904 1899	4 5 4	11 14 8	5 6 5		6 8 3	16	7 8 8		4 3 1	5 4 5	15 17 13	10 13 8
Shipbuilding, including boat building.	1909 1904 1899	22 18 27	827 1,597 1,669	18 23 42	67 80 42	742 1,494 1,585	845	2,530 3,177 2,270	102 136 89	582 1,141 956	566 825 664	1,603 2,533 2,264	1,037 1,708 1,600
Show cases	1909 1904 1899	9 7 6	169 126 136	13 9 5	18 7 19	138 110 112	139	149 87 75	20 7 16	74 62 48	120 47 47	314 188 146	194 141 99
Silk and silk goods, including throwsters.	1909 1904 1899	90 56 50	5, 169 4, 456 4, 226	98 58 56	510 483 169	4,561 3,915 4,001	2,485	7,755 5,359 4,428	656 537 272	2,118 1,696 1,579	4,916 3,709 3,301	10,051 7,887 6,758	5, 135 4, 178 3, 457
Silverware and plated ware	1909 1904 1899	34 27 42	1,208 1,401 1,929	33 30 51	250 195 230	925 1,176 1,648	704	2,794 2,591 2,977	318 228 249	689 682 942	1,404 1,241 1,702	3, <b>f</b> 51 2, 906 3, 745	1,747 1,665 2,043
Slaughtering and meat packing	1909 1904 1899	80 51 63	3, 933 2, 229 2, 186	81 67 78	665 315 330	3,187 1,847 1,778	7,896	22,275 10,614 8,829	1,055 485 387	2,591 1,540 1,213	69,090 43,133 34,549	79,288 48,386 39,195	10,198 5,253 4,646
Smelting and refining, not from the ore.	1909 1904 1899	5 4 4	218 161 192	9 6 6	69 27 73	140 128 113	100	2,309 1,115 719	94 69 93	109 76 94	6,682 4,186 1,148	7,219 4,558 1,745	537 372 597
Soap	1909 1904 1899	24 26 31	797 1,140 956	20 27 31	191 165 133	586 948 792	874	1,823 3,442 3,213	264 232 188	316 438 375	2,520 3,361 3,735	4,320 5,694 6,479	1,800 2,333 2,744
Stationery goods, not elsewhere specified.	1909 1904 1899	44 32 29	663 608 631	42 28 33	171 107 79	450 473 519	229	971 983 958	190 108 70	239 213 220	639 631 563	1,499 1,320 1,347	860 689 784
Steam packing	1909 1904 1899	15 9 11	159 109 69	9 9 14	30 7 24	120 93 31	140	252 76 128	47 9 34	82 41 23	140 83 56	381 190 204	241 107 148
Stereotyping and electrotyping	1909 1904 1899	34 28 26	1,036 833 567	26 36 29	220 120 70	790 677 468	1, 180	1,054 1,033 604	300 137 66	771 597 339	547 321 209	1,961 1,380 860	1,414 1,059 651
Stoves and furnaces, including gas and oil stoves.	1909 1904 1 1899	16 14	586 418	14 14	112 58	460 346	391	1,141 911	164 77	364 221	744 410	1,579 1,051	835 641
Surgical appliances and artificial limbs.	1909 1904 1899	38 35 37	374 464 224	37 32 40	88 67 39	249 365 145	77	516 434 176	100 63 28	154 198 90	220 206 79	771 763 411	551 557 332
Tobacco manufactures	1909 1904 1899	1,341 1,500 1,220	23, 112 27, 140 21, 991	1,430 1,642 1,384	1,804 1,447 942	19,878 24,051 19,665	1,783	29, 447 39, 198 15, 154	2,423 1,476 1,239	9,194 10,272 8,409	22,585 18,460 13,725	54,880 47,749 37,431	32,295 29,289 23,706
Toys and games	1909 1904 1899	39 19 26	932 307 387	41 21 29	110 31 33	781 255 325	235	885 381 433	105 35 37	322 112 132	580 173 252	1,268 493 604	688 320 352
Type founding and printing materials.	1909 1904 1899	18 21 21	194 254 455	11 16 14	48 45 49	135 193 392	166	343 713 878	79 53 71	92 117 218	298 142 252	616 528 781	318 386 529
Umbrellas and canes	1909 1904 1899	122 87 88	2,088 1,726	154 120	229 190 193	1,705 1,416 1,499	472	2,018 1,215 1,501	223 157 156	805 592 578	3, 454 2, 809 3, 198	5,530 4,594 4,992	2,076 1,785 1,794
Window shades and fixtures	1	54 23 29	519 177	60 30	121 30 29	338 117 200	35	969 163 421	121 30 34	198 53 86	1,837 416 766	2,612 626 1,093	775 210 327
Wirework, including wire rope and cable.	1909 1904 1899	47 92 49	627 1,483 457	49 122 61	87 166 31	491 1,195 365	311	736 993 430	90 125	246 535 181	685 743 282	1,293 2,001 685	608 1,258 403
Wood, turned and carved		60 68 77	594 412 472	81 86 93	52 12 16	461 314 363	428	454 268 259	12	339 216 226	175	1,069 599 623	686 424 441
All other industries.	1	1,294 1,180 1,171	28,795 26,895	1, 293 1, 345	4,923 3,250 2,347	22,579 22,300	23,771	66, 885 46, 560 53, 001	3,510	13, 908 11, 635 9, 895	52,023 47,679 39,294	90,842 78,569 63,852	38,819 30,890 24,558

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

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES	COMBINED AND SELECTED INDUSTRIES-Continued.
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1													
industry.	Census.	Num- ber of estab- lish- ments.	PERSONS ENGAGED IN INDUSTRY.						·	Cont of	77.7	Value	
			Total.	Proprietors and firm members.	Salaried employ- ees.	Wage earners (average num- ber).	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
								Expressed in thousands.					
NEW YORK CITY—Brook- lyn Borough—All industries.	1909 1904 1899	5,218 4,182 4,301	145,222 119,524	5,495 4,597	15,844 9,932 6,826	123,883 104,995 87,445	147,580	\$362,337 313,452 263,471	\$21,146 13,521 9,097	\$68,328 54,535 42,341	\$235,132 230,809 206,335	\$417,223 373,463 313,617	\$182,091 142,654 107,282
Artificial stone	1909 1904 1 1899	6 4	66 239	3 1	9 21	54 217	77	238 416	12 35	29 202	79 159	153 499	74 340
Boxes, eigar	1	7 7 7	42 43 79	9 8 10	3 4	30 31 69	1	19 21 47	1 3	11 15 33	25 26 43	47 61 105	22 35 62
Brass and bronze products	1909 1904 1899	43 2 36 3 36	1,448 1,006 627	37 39 - 44	171 125 33	1,240 842 550	1,074	2,028 1,195 724	217 125 32	721 441 251	1,418 588 688	3,176 1,462 1,182	1,758 874 494
Bread and other bakery products	1909 1904 1899	853 767 805	5,550 4,527 3,961	884 789 819	872 267 294	3,794 3,471 2,848	1,035	5,051 3,590 3,251	654 189 205	2,745 2,242 1,711	10,287 7,472 4,802	16,905 12,453 9,030	6,618 4,981 4,228
Canning and preserving	1909 1904 1899	20 2 14 20	227 264	18 11	43 17 47	166 236 302	168	474 333 1,734	46 34 57	66 93 101	666 860 546	935 1,108 923	269 248 377
Carpets, rag	1909 1904 1899	6 6 10	31 32 19	6 7 10	5	20 25 9	7	17 16 7	4	13 11 3	15 13 5	49 39 15	34 26 10
Carriages and wagons and materials	1909 1904 1899	66 4 69 3 71	678 749	80 86	34 30 13	564 633 544	656	1,030 800 841	37 30 13	386 401 325	406 395 360	1,126 1,115 985	720 720 625
Chemicals	1909 1904 1899	19 18 17	1,215 984 481	9 10 8	224 162 83	982 812 390	3,151	7,377 4,610 2,107	413 288 118	703 460 210	8,401 5,979 2,691	10,827 7,978 3,574	2,426 1,999 883
Clocks and watches, including cases and materials.	1909 1904 1899	7 5 5 5 8	1,379 284 408	3 6	99 21 24	1,280 260 378	441	3,095 785 641	151 37 43	674 192 250	1,050 669 960	2,603 978 1,453	1,553 309 493
Clothing, men's, including shirts	1909 1904 1899	563 377 505	17,957 9,959	749 465	546 194 102	16,662 9,300 7,327	2,530	6,676 2,428 2,250	572 323 143	8,543 3,913 3,065	6,172 2,777 1,675	19,243 9,050 6,522	13,071 6,273 4,847
Clothing, women's	1909 1904 1899	290 153 125	7,239 3,625 2,846	376 203 149	338 103 93	6,525 3,319 2,604	1,066	2,854 1,118 990	310 86 78	2,792 1,222 987	3,975 1,632 1,266	8,508 3,620 3,233	4,533 1,988 1,967
Cordage and twine and jute and linen goods.	1909 1904 1899	6 3 6 3 6	4,576 2,675		178 129 72	4,398 2,546 2,302	9,377	10,008 6,106 5,145	267 211 154	1,589 1,025 848	4,188 5,238 5,205	7,264 8,167 7,311	3,076 2,929 2,106
Cutlery and tools, not elsewhere specified.	1909 1904 1899	19 3 18 3 16	238 119 151	19 24 22	29 5	190 95 124	106	279 150 209	21	91 58 81	175 45 42	362 156 202	187 111 160
Dyeing and finishing textiles	1909 1904 1899	11 5 6	433 236 162	5 8 10	53 31 13	375 197 139	597	611 326 303	113 31 12	172 74 63	271 67 43	716 313 194	445 240 151
Electroplating	1909 1904 1899	13 9 9	88 84	20 15	1 7 1	67 62 65	95	41 40 28	1 3	38 35 34	18 18 17	96 84 73	78 60 56
Fancy articles, not elsewhere specified	1909 1904 1899	28 2 17 17	635 363 338	25 23 24	69 37 30	541 303 284	353	747 320 245	96 33 29	280 139 90	596 208 152	1,288 491 371	692 283 219
Food preparations.	1909 1904 1899	36 31 30	617 431 382	35 44 44	128 32 24	454 355 314	643	743 439 560	151 38 17	171 108 104	1,064 533 611	1,697 852 889	633 319 278
Foundry and machine-shop products	1909 1904 1899	305 6 263 277	13,096 13,178	244 262	1,897 1,512 965	10,955 11,404 11,511	14,845	43,016 35,813 30,613	2,723 1,988 1,300	7,679 7,335 6,526	9,081 8,994 10,998	28,137 26,078 25,411	19,056 17,084 14,413
Fur goods	1909 1904 1899	17 15 30	448 268 350	17 17 37	80 33 49	351 218 264	103	809 590 633	64 34 43	160 120 154	705 384 415	1,193 666 795	488 282 380
Furnishing goods, men's	1909 1904 1899	16 3 15 10	578 1,050	20 20	74 86 29	484 944 457	67	710 541 284	68 48 17	170 237 147	487 847 389	856 1,331 635	369 484 246
Furniture and refrigerators	1909 1904 1899	79 59 40	2,778 1,875 1,546	109 88 59	236 116 94	2,433 1,671 1,393	2,422	3,208 1,735 1,273	317 167 107	1,467 900 688	2,857 1,273 1,200	5,750 2,946 2,614	2,893 1,673 1,414
Furs, dressed	1904 1899	36 24 21	662 460 316	51 33	38 11 8	573 416 281	887	407 224 273	42	394 306 170	183 81 146	845 575 426	662 494

Not reported separately.

Excluding statistics for one establishment, to avoid disclosure of individual operations.

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

Excluding statistics for four establishments, to avoid disclosure of individual operations.

Excluding statistics for three establishments, to avoid disclosure of individual operations.

Excluding statistics for five establishments, to avoid disclosure of individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued. CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSO	NS ENGA	GED IN IN	DUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			E	expressed	in thousand	ls.	
NEW YORK CITY—Brook- lyn Borough—Continued.													
Gas and electric fixtures and lamps and reflectors.	1909 1904 1899	27 1 19 23	906 678 518	29 16 25	137 91 68	740 571 425	564	\$1,299 775 745	\$189 110 73	\$421 286 230	\$700 484 235	\$1,571 1,108 683	\$871 624 448
Gas, illuminating and heating	1909 1904 2 1899	3	2,251 2,103		532 412	1,719 1,691	7,936	49,607 40,738	637 436	1,303 1,261	$2,795 \\ 2,150$	9,492 7,541	6,697 5,391
Glass	1909 1904 1899	6 7 7	580 981 995	3 4 4	37 42 39	540 935 952	220	541 894 714	48 60 40	275 500 415	157 405 268	624 1, 196 868	467 791 600
Glass, cutting, staining, and ornamenting.	1909 1904 1899	36 28 28	905 691 350	42 43 34	51 29 19	812 619 297	240	607 220 195	70 30 15	502 367 153	443 270 189	1,301 850 483	858 580 294
Hair work	1909 1904 1899	6 4 8	77 38	8 4	2	67 34 25		70 38 20	······································	20 7 8	49 13 11	101 28 36	52 15 25
Hats, fur-felt	1909 1904 1899	7 7 4	1,303 1,294 1,289	4 3 4	99 67 49	1,200 1,224 1,236	583	2,225 2,067 1,387	132 83 122	718 786 799	1,296 961 710	2,657 2,657 1,899	1,361 1,696 1,189
Hosiery and knit goods	1909 1904 1899	119 * 58 40	4,359 3,081 1,544	128 70 49	291 57 67	3,940 2,954 1,428	1,306	5,734 3,626 1,634	440 100 92	1,771 1,093 561	5,144 2,102 1,088	9,350 4,132 2,126	4, 206 2, 030 1, 038
House-furnishing goods, not elsewhere specified.	1909 1904 1899	9 6 11	140 184 446	10 5 15	12 18 44	118 161 387	80	229 213 378	12 18 27	50 77 146	206 219 303	350 396 610	144 177 307
Ice, manufactured	1909 1904 1899	12 8 10	239 118 104	3 1 4	31 18 18	205 99 82	5,060	1,350 847 659	96 23 17	160 68 55	213 89 82	666 261 280	453 172 198
Instruments, professional and scientific.	1909 1904 1899	19 18 24	368 331 338	24 22 36	66 32 31	278 277 271	355	528 416 325	79 39 26	162 164 163	153 123 84	522 420 365	369 297 281
Kaolin and ground earths	1909 1904 2 1899	4 4	53 134	1 5	8 13	44 116	229	77 239	11 23	22 66	96 204	155 359	59 155
Leather goods	1909 1904 1899	52 1 31 34	495 288	57 40	48 6 6	390 242 218	70	650 210 148	50 6 4	167 96 87	464 179 149	954 376 338	490 197 189
Leather, tanned, curried, and finished	1909 1904 <b>1</b> 899	11 12 9	396 520	12 13	28 39 17	356 468 601	737	682 1,227 1,293	34 46 23	170 216 279	764 1,190 1,882	1,125 1,614 2,560	361 424 678
Liquors, malt	1909 1904 1899	29 35 35	2,029 2,145 1,829	5 5 9	316 395 323	1,708 1,745 1,497	9,120	25, 155 19, 338 15, 740	1,188 1,067 795	1,468 1,386 1,202	3,694 3,346 2,232	14,660 12,541 11,381	10,966 9,195 9,149
Looking-glass and picture frames	1909 1904 1899	21 11 17	299 80	24 11	26 1 8	249 68 64	209	361 84 81	27 1 5	133 31 32	271 79 70	604 153 151	333 74 81
Lumber and timber products	1909 1904 1899	85 69 3 58	4, 191 4, 156 2, 857	76 82 77	351 257 163	3,764 3,817 2,617	9, 445	8,812 7,540 4,156	471 330 205	2,260 2,001 1,441	6,801 4,666 3,757	10,953 10,156 6,488	4, 152 5, 490 2, 731
Marble and stone work	1909 1904 1899	74 51 65	1,135 1,008	72 67	96 71 39	967 870 1,049	1,953	1,930 1,668 1,787	151 90 55	877 742 772	1,129 763 1,018	2,786 2,186 2,477	1,657 1,423 1,459
Millinery and lace goods	1909 1904 1899	57 28 21	1,839 954 643	72 37 24	166 91 19	1,601 826 600	275	1,288 491 135	174 61 23	626 270 137	1,481 431 191	2,926 1,009 467	1,445 578 276
Mirrors	1909 1904	6 4	179 123	5 4	21 14	153 105	196	214 130	27 13	87 41	184 103	362 197	178 94
Paint and varnish	1909 1904 1899	63 55 43	2,440 2,249	40 46	764 417 294	1,636 1,786 1,298	5,627	11,861 12,179 9,476	1,193 664 624	999 1,037 706	10,430 11,268 6,332	15, 743 15, 548 9, 393	5,313 4,280 3,061
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	69 59 53	1,162 772 1,631	44 43 50	382 285 311	736 444 1,270	1,267	3, 196 2, 824 4, 740	514 389 402	341 237 524	2,343 926 3,726	5,071 2,876 6,261	2,728 1,950 2,535
Printing and publishing	1909 1904 1899	304 3 225 186	8, 021 5, 457 4, 423	328 239 212	1,333 772 531	6,360 4,446 3,680	5, 134	15,259 10,899 6,133	1,597 952 573	3,926 2,625 1,778	5,178 2,813 1,882	14,436 9,097 6,050	9, 258 6, 284 4, 168
Shipbuilding, including boat building	1909 1904 1899	22 1 30 1 45	2,286 834 1,095	20 38 60	86 49 37	2,180 747 998	6,057	4,808 999 1,981	155 64 45	1,368 519 667	1,280 503 671	4,531 1,428 1,760	3,251 925 1,089

Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Figures can not be shown without disclosing individual operations.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.

# SUPPLEMENT FOR NEW YORK.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

# CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	ENGAG	ED IN IND	USTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			I	Expressed	in thousand	ds.	
NEW YORK CITY—Brook- lyn Borough—Continued.													
Show cases	1909 1904 1899	8 5 5	283 119 125	10 8 7	32 4 4	241 107 114	337	\$314 73 76	\$48 7 4	\$132 61 71	\$254 123 125	\$502 235 265	\$248 112 140
Silverware and plated ware	1909 1904 1899	8 1 4 2 3	644 392 154	10 5 7	118 21 15	516 366 132	440	1,000 532 80	80 32 9	289 217 64	461 225 48	1,048 585 179	587 360 131
Slaughtering and meat packing	1909 1904 1899	32 1 11 2 15	930 386 243	46 16 21	147 63 26	737 307 196	819	2,911 1,432 471	157 72 25	580 246 115	14,744 6,759 2,858	16, 575 7, 500 3, 139	1,831 741 281
Tobacco manufactures	1909 1904 1899	556 573 560	2,868 1,867 2,083	587 603 591	115 43 70	2,166 1,221 1,422	290	3,651 1,180 1,397	156 37 60	894 609 654	2,494 930 1,358	6, 570 2, 418 3, 706	4,076 1,488
Vinegar and cider	i l	4 4 4	57 50 45	2 4 4	15 6 2	40 40 39	75	133 96 132	13 4 2	20 16 21	83 63 29	131 116	2,348 48 53 38
Wirework, including wire rope and cable.	1909 1904 1899	17 22 16	546 579 255	15 30 18	70 71 29	461 478 208	403	916 829 339	117 90 34	275 293 102	455 389 163	1,029 1,007	574 618
Wood, turned and carved	1909 1904 1899	19 16 24	396 85 180	21 17 30	26 5 5	349 63 145	385	437 103 193	39 5 3	140 40	273 83	405 610 168	242 337 85
All other industries.	1909 1904 1899	1,086 857 887	43,864 45,376	1,081 960	5, 311 3, 605 2, 611	37, 472 40, 811 34, 039	48, 467	127,054 139,949 156,898	6,961 4,950 3,410	81 19, 278 19, 648 15, 237	98 118,978 150,692 144,522	258 178, 042 205, 283 184, 979	59,064 54,591 40,457
NEW YORK CITY—Queens Borough—All industries.	1909 1904 1899	771 513 395	27,495 16,669	745 507	2, 859 1, 257 912	23, 891 14, 905 10, 684	47,721	\$145,307 92,977 67,420	\$4,407 1,836 1,264	\$14, 169 8, 440 5, 534	\$113,200 70,403 23,354	\$151, 680 92, 941 35, 428	\$38,480 22,538 12,074
Bread and other bakery products	1909 1904 1899	158 103 105	887 479	167 108	52 18 20	668 353 290	202	1,292 384 384	31 8 7	423 209 174	1,642 812 477	2,552 1,281 897	910 469 420
Clothing, men's, including shirts	1909 1904 1899	9 1 9 9	113 62	9 9		104 53 64	36	44 4 14		49 21 19	5 3 2	73 35 31	68 32 29
Foundry and machine-shop products	1909 1904 1899	41 17 13	2,485 910	27 21	361 131 25	2,097 758 332	2,482	5,474 1,601 728	487 159	1,503 426	2, 100 329	5,619 1,328	3,519 999
Glass	1909 1904 3 1899	3 3	368 179		24 19	344 160	230	726 266	44 48 28	179 212 127	194 124 93	525 503 356	331 379 263
Hosiery and knit goods	1909 1904 3 1899	7 7	453 101	4 10	28	421 91	85	607 66	40	$^{141}_{32}$	408 65	710 123	302 58
Liquors, malt	1909 1904 1899	6 8 7	253 389	4 1	45° 83 51	204 305 204	1,012	2,958 3,927 1,762	118 166	189 260	427 614	2,575 3,004	2,148 2,390
Lumber and timber products	1909 1904 1899	19 1 11 13	1,133 242	13 15	75 25 14	1,045 202 215	2,294	2,825 348 527	99 125 29 15	167 621 119	330 2,063 329	1,651 3,133 563	1,321 1,070 234 233
Musical instruments, pianos and organs and materials.	1909 1904 1899	4 4 3	929 860	5 4	30   43   17	894 813 496	852	2,443 2,639 1,435	41 48 33	123 674 617	473 421 776	706 1,346 1,590	925 814 568
Paint and varnish	1909 1904 1899	18 12 11	683 463	4 10	269 113 120	410 340 291	1,377	3,639 1,927	438 163	335 275 187	203 2,501 1,444	771 4,226 2,432	1,725 988
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	10 8 3	386 53	2 1	151 13 6	233 39 25	231	2, 402 787 105 29	234 187 28 10	170 121 15 12	1,384 784 91 61	2,368 1,608 193 174	984 824 102 113
Printing and publishing	1909 1904 1899	38 1 29 2 18	436 207	30 26	61 35 23	345 146 106	249	879 219 220	76 36 19	208 78 61	240 91	725 280 190	485 189 160
Shipbuilding, including boat building.	1909 1904 1899	13 10 3	309 256	14 10	33 18 1	262 228 54	411	* 418 152 47	36 17	184 148	30 152 145	406 378	254 233 49
Silk and silk goods, including throwsters.	1909 1904 1899	8 8	1,944 1,493	3 5	104 67 30	1,837 1,421 823	477	3,316 2,553 1,719	1 165 72 54	31 870 605	20 2,249 1,987	4,206 3,342	1,957 1,355 736
Tobacco manufactures	1909 1904 41899	127 81	657 246	170 86	25 5	462 155	37	870 234	29 5	344 211 65	897 338 110	1,633 998 306	660 196
All other industries.	1909 1904 1899	310 203 204	16, 459 10, 729	293 201	1,601 687 605	14,565 9,841 7,784	37,746	119,029 78,552 58,153	2,586 1,077 748	8,488 5,531 3,919	99,746 63,514 19,283	123, 000 77, 730 26, 413	23,254 14,216 7,130

Excluding statistics for one establishment, to avoid disclosure of individual operations.

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

Figures can not be shown without disclosing individual operations.

Figures not comparable.

## TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

#### CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSO:	ns enga	GED IN IN	DUSTRY.			,				Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			Ex	pressed in	thousands.		
NEW YORK CITY—Rich- mond Borough—All indus- tries.	1909 1904 1899	180 169 185	7, 494 6, 435	157 159	901 681 384	6,436 5,595 5,192	19,738	\$33, 983 15, 991 10, 430	\$1,549 912 571	\$3,734 3,073 2,277	\$18, 367 9, 787 6, 445	\$29,701 16,867 13,017	\$11,334 7,080 6,572
Bread and other bakery products	1909 1904 1899	42 36 45	192 140	45 36	1 2 18	146 102 99	28	281 96 136	2 1 11	99 63 55	326 244 <b>21</b> 4	568 386 366	242 142 152
Liquors, malt	1909 1904 1899	3 5 5	262 276	2	53 52 50	209 222 203	550	2,685 2,430 1,802	133 145 144	177 193 149	445 482 388	1,822 1,427 1,614	1,377 $945$ $1,226$
Printing and publishing	1909 1904 1899	16 15 17	139 104	15 17	12 17 8	112 70 78	86	183 97 96	11 18 6	65 38 45	33 22 23	· 173 137 119	140 115 96
Tobacco manufactures	1909 1904 1899	12 1 18 17	27 36	12 18		15 18 12	5	36 24 31		8 9 5	13 16 12	40 40 32	27 24 20
All other industries.	1909 1904 1899	107 95 101	6,874 5,879	85 86	835 610 308	5,954 5,183 4,800	19,069	30,798 13,344 8,365	1,403 748 410	3,385 2,770 2,023	17,550 9,023 5,808	27,098 14,877 10,886	9,548 5,854 5,078
ROCHESTER—All industries.	1909 2 1904 1899	1,203 1,109 1,221	46,617 37,128	1,042 1,084	6, 467 4, 265 3, 061	39,108 31,779 28,049	39, 277	\$95,708 69,807 45,210	\$7,734 4,529 3,131	\$21,518 14,702 11,366	\$50,674 37,918 28,245	\$112,676 81,109 59,669	\$62,002 43,191 31,424
Baking powders and yeast	1909 1904 1899	5 5 4	14 10 10	6 7 4	5 · 2 · 4	3 1 2	7	12 7 16	5 1 3	(°) 1	11 8 6	28 16 15	17 8 9
Boots and shoes, including cut stock and findings.	1909 1904 1899	56 65 69	6,676 5,163 5,159	44 70 76	515 419 404	6,117 4,674 4,679	1,911	6,788 3,752 3,031	655 409 371	3,038 2,090 1,733	7,811 5,117 4,214	13,450 9,155 7,297	5,639 4,038 3,083
Boxes, cigar	1909 1904 1899	3	18	7		11	26	14		5 7	14	27	13 16
Boxes, fancy and paper	1	15 13 12	760 915 785	10 10 12	46 62 34	704 843 739	303	636 611 419	80 64 33	253 259 176		966 836 581	495 569 38 <b>6</b>
Brass and bronze products		1 3 5 4	252 103 60	2 2 9	25 9 6	225 92 45	301	322 455 101	40 8 4	110 47 24	154	569 239 152	221 85 49
Bread and other bakery products	. 1909 1904	110 79	626 424 429	120 90 112	89 39 44	417 295 273	258	843 493 395	59 39 18	297 173 128	1,359 712	2, 109 1, 145 875	750 433 372
Buttons	1899 1909 1904 1899	98 4 3 4	1,639 475 402	2	216 76 27	1,423 399 373	1,126	1,964 475 292	253 65 18	538 146 103	529 123	1,821 527 354	1,292 404 285
Carriages and wagons and materials	1909 1904 1899	17 16 13	609 718	19 25	68 54 54	522 639 449	420	1,787 1,568 1,248	122 70 75	380 377 279	504 560	1,177 1,230 760	673 670 497
Clothing, men's, including shirts	i	196 1 239 307	8,559 6,902 5,293	241 300 377	586 441 244	7,732 6,161 4,672	1,007	10,808 7,891 6,046	1, 162 743 336	3,809 2,545 1,858	6,982 5,522	18, 879 14, 949 11, 138	5,616
Clothing, women's	. 1909 1904 1899	4 7 4	92 120 241	1 4 5	17	75 99 225	21	67 40 94		30 26 40	75	153 150 185	60 75 97
Coffee and spice, roasting and grinding	. 1909 1904 1899	6 3 3	144 112 35	1	- 26 12	22	192	232 272 88	9	43 36 8	362 123		162 131 30
Confectionery	. 1909 1904 1899	16 8 9	697 619	. 13	. 64	573 482	441	880 820 378	75 93	228 187 141	570	1 '	855 586
Cooperage and wooden goods, not elsewhere specified.	1904 1899	10 6 13	180 89	6	. 5	78 130	314	356 148 95	4 2	I.	121 119	689 185 212	1
Cutlery and tools, not elsewhere specified.	1904 1899	11 10 6	125 112 69	9	8 4	89 56	648	240 179 248	6 2	27	46 24	83	76
Electrical machinery, apparatus, and supplies.	1909 1904 1899	9 5	949 1,367	1	232	1,185	1,283	4,230 5,353	101	548	854	2,078	1,224
Electroplating	1904 1899	7 6 6	35 35	3 6	. 3	25 57	59	. 24 18 16	3 4	14 17	14 5	36 36	30 31
Flour-mill and gristmill products	1909 1904 1899	10 10 14	152 136 184	5	24	110 107 136		1,054 816 806	32	75 66 74	2,940	3,222	315 282 38 <b>7</b>

<sup>1</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.

2 Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

2 Less than \$500.

4 Figures can not be shown without disclosing individual operations.

5 Excluding statistics for two establishments, to avoid disclosure of individual operations.

# SUPPLEMENT FOR NEW YORK.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

# CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSO	NS ENGA	GED IN IN	DUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm mem-	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				bers.		ber).			I	Expressed	in thousand	ds.	
ROCHESTER—Continued.													
Food preparations	1909 1904 1899	6 3 3	44 9 6	4 1 3	13 2 2	27 6 1	42	\$75 15 13	\$9 1 1	\$13 2 (1)	\$68 49 9	\$116 71 17	\$48 22 8
Foundry and machine-shop products.	1909 1904 1899	89 2 70 85	2,784 1,970	60 45	359 188 247	2,365 1,737 2,097	2,618	6,093 3,733 4,642	436 236 290	1,619 1,025 1,127	1,967 1,266 1,447	5,744 3,366 4,411	3,777 2,100 2,964
Fur goods	1909 1904 1899	7 4 5	109 73 87	9 2 6	12 5 12	88 66 69	30	177 90 143	9 5 8	51 35 28	112 44 99	406 133 174	294 89 75
Furnishing goods, men's	1909 1904 1899	6 2 4 5	335 221 299	3 3 7	55 28 34	277 190 258	34	298 240 250	63 22 29	89 60 75	494 284 324	784 504 512	290 220 188
Furniture and refrigerators	1909 1904 1899	27 2 18 25	1,647 1,527 1,678	16 13 26	166 111 134	1,465 1,403 1,518	1,943	2,806 1,804 1,525	276 163 155	915 742 586	1,210 849 764	3,087 2,365 2,133	1,877 1,516 1,369
Gas and electric fixtures and lamps and reflectors.	1909 1904 1899	8 3 5 3	643 336 346	2 1 1	50 30 26	591 305 319	426	1,175 425 326	76 51 26	269 121 107	558 271 273	1, 106 679 673	548 408 400
Glass, cutting, staining, and ornamenting.	1909 1904 1899	5 3 3	49 25 19	4 4 4	6 3 3	39 18 12		42 15 24	6 2 1	27 6 7	50 7 4	104 29 23	54 22 19
Hand stamps and stencils and brands.	1909 1904 1899	4 3 3	21 11 13	5 4 4	2	14 7 9	4	· 20 15 11	1	7 3 5	15 4 8	36 16 20	21 12 12
Hats and caps, other than felt, straw, and wool.	1909 1904 1899	7 4 6	43 19 17	8 6 6	5 1	30 13 10	3	17 11 12	4 1	14 7 4	36 16 16	82 34 29	46 18 13
Ice, manufactured	1909 4 1904	3	67		14	53	580	259	10	40	28	137	109
Lasts	1909 1904 1899	4 5 4	140 79 56	2 3 4	14 9 2	124 67 50	255	212 58 43	23 6 2	83 28 26	94 24 18	273 83 70	179 59 52
Liquors, malt	1909 1904 1899	8 9 13	495 398 523	1 2 5	103 91 114	391 305 404	1,301	4,824 4,069 4,906	159 137 171	309 225 307	732 604 582	3, 012 2, 174 2, 748	2,280 1,570 2,166
Looking-glass and picture frames	1909 1904 1899	9 11 5	211 307 264	7 8 14	26 28 31	178 271 219	107	328 299 258	31 32 43	106 128 100	95 82 81	281 369 288	186 287 207
Lumber and timber products	1909 1904 1899	22 28 3 21	1,098 949 565	10 18 21	107 70 49	981 861 495	2,935	2,302 1,531 717	130 77 44.	511 434 236	1,485 1,054 527	2, 455 1, 949 961	970 895 434
Models and patterns, not including paper patterns.	1909 1904 1899	9 7 10	50 58 51	8 7 10	. 4 3 2	38 48 39	29	27 139 138	4 3	27 30 21	9 14 20	64 71 67	55 57 47
Musical instruments, pianos and organs and materials.	1909 1904 1899	4 3 3	118 133 283	2 3	12 27 15	104 103 268	168	241 349 255	13 20 19	63 43 100	120 90 239	234 198 442	114 108 203
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	32 31 2 37	245 321 343	20 25 35	109 126 137	116 170 171	83	619 712 760	127 126 104	48 65 51	324 327 294	831 738 943	507 411 649
Printing and publishing	1909 1904 1899	123 <sup>2</sup> 90 84	2,713 2,389 2,011	84 76 84	756 558 329	1,873 1,755 1,598	2,241	4, 980 3, 825 3, 641	727 410 290	1,172 984 709	1,629 1,128 692	5, 128 3, 734 2, 603	3,499 2,606 1,911
Slaughtering and meat packing	1909 1904 1899	15 10 2 10	50 38 43	20 16 14	5	25 22 29	129	105 80 99	4	14 13 15	112 54 124	158 89 193	46 35 69
Surgical appliances and artificial	1909 1904 1899	3 3	29 22	3 2	8	18 14	10	61 18	5 5	10	10	49 34	39 26 24
Tobacco manufactures	1909 1904	94 100	325 833	102 111	8 14 61	12 209 661	15	21 385 3, 135	7 18 43	6 108 222	7 189 908	31 512 2,235	24 323 1,327
Typewriters and supplies	1899 1909 1904 4 1899	<sup>3</sup> 87 8 8	858 123 128	90 2 2	48 57 67	720 64 59	171	598 550 230	98 70 71	226 42 38	881 202 91	3,040 591 335	2, 159 389 244
Wood, turned and carved	1909 1904 1899	11 11 9	41 47	11 14	1	29 33	115	41 28	1	19 20	25 10	66 50	41 40
All other industries.	1909 1904 1899	215 201 228	40 13, 710 9, 935	10 164 176	2,596 1,440 922	29 10,950 8,319 7,364	14,923	29 39,814 26,088 13,514	1 2,712 1,460 828	19 6, 507 3, 859 2, 932	14 15, 323 11, 741 7, 382	39, 695 25, 949 14, 201	40 24, 372 14, 208 6, 819

Less than \$500.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Figures can not be shown without disclosing individual operations.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued. CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	S ENGAG	ED IN INI	OUSTRY.							Value
INDUSTRY.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		ber).			Е	Expressed	in thousan	ds.	
SCHENECTADY—All industries.	1909 1904 1899	134 103 83	17, 728 15, 216	120 129	2, 677 771 303	14,931 14,316 8,494	49, 181	\$51,816 22,051 13,606	\$3,086 915 297	\$10,002 9,382 4,966	\$21, 952 16, 497 9, 925	\$38, 165 33, 084 17, 605	\$16,213 16,587 7,680
Bread and other bakery products	1909 1904 1899	27 23 17	145 132	33 32	10 6 20	102 94 47	39	144 67 34	6 3 7	69 54 25	263 160 85	403 314 150	140 154 65
Lumber and timber products	1909 1904 1 1899	5 3	101 134	3 5	14 13	84 116	394	213 327	18 13	52 68	218 375	316 559	98 184
Marble and stone work	1909 1904 1 1899	4 3	72 63	3 8	11 1	58 54	108	129 95	10 1	28 35	57 33	120 87	63 54
Printing and publishing	1909 1904 1899	18 2 13 11	339 133	8 11	112 42 12	219 80 67	299	503 195 81	77 26 6	145 63 36	173 55 20	550 208 94	377 153 74
Tobacco manufactures	1909 1904 1899	20 22 11	83 106	29 30	1 4 1	53 72 44		43 88 35	1 4 1	26 41 22	41 36 32	101 113 82	60 77 50
All other industries.	1909 1904 1899	60 39 44	16, 988 14, 648	44 43	2, 529 705 270	14, 415 13, 900 8, 336	48,341	50,784 21,279 13,456	2, 974 868 283	9, 682 9, 121 4, 883	21, 200 15, 838 9, 788	36, 675 31, 803 17, 279	15, 475 15, 965 7, 491
SYRACUSE—All industries	1909 3 1904 1899	738 637 630	21,710 16,926	655 650	2,907 1,722 1,264	18, 148 14, 554 11, 809	20,796	\$51,726 38,653 28,928	\$3,313 1,954 1,316	\$10, 422 7, 116 5, 303	\$21,776 16,082 12,548	\$49, 435 34, 687 26, 546	\$27,659 18,605 13,998
Boxes, fancy and paper	1909 1904 1899	4 4 3	174 139	3 3	7 4	164 132	53	122 99	6 3	49 34	87 54	164 121	77 67
Brass and bronze products	1909 1904 1899	10 2 7	97 236 114	6 9 8	2 24 8	203 98	164	522 205	92 10	131 48	32 387 149	683 253	39 296 104
Bread and other bakery products	1909 1904 1899	5 83 53 61	554 401	88 54 72	65 49	63 401 298	267	958 824	63 39	38 240 153	136 1,072 726	1,832 1,289	760 563
Candles	1909 1904	5 4	345 317 270	2 2	52 40 27	221 275 241	107	431 925 891	38 57 42	103 104 89	414 688 645	730 1,092 894	316 404 249
Carriages and wagons and materials	1899 1909 1904 1899	5 13 2 11 18	225 272 343	17 13	28 10 9	193 245 321 351	293	564 520	35 18 15	170 187	426 268 294	605 593 638	179 325 344
Clothing, men's, including shirts	1909 1904 1899	59 52 100	1, 921 1, 513	74 69	17 217 136	1,630 1,308	161	2,010 2,030 2,030	20 210 181	165 694 512	346 1,718 1,603	3, 461 3, 082	287 1,743 1,479 1,378
Clothing, women's	1909 1904 1899	8 7 8	311 435 282	6 12 9	93 20 14 12	1, 100 285 409 261	50	2,026 162 165	81 15 11 9	404 110 106	1,452 222 218 228	2, 830 416 445	194 227
Confectionery	1909 1904 1899	7 5 4	207 131	7 4	28 11 4	172 116 51	177	209 145 75	26 12 3	65 63 43 21	329 241 107	383 498 350 155	155 169 109 48
Cooperage and wooden goods, not elsewhere specified.	1909 1904 1899	7 7 6	44 44 50	9 12 6	1 1	35 31 43	35	67 50 43	1 1	21 17 22	51 35 33	95 76 70	44 41 37
Copper, tin, and sheet-iron products	1909 1904 1899	9 10 11	380 125	.5 11	36 8 6	339 106 53	298	925 132 64	55 6 2	203 52 29	681 86 66	1,091 215 124	410 129 58
Electroplating	1909 1904	5 5	49 34	4 7	5	40 24	39	25 12	4 1	23. 12	8 6	47 31	39 25
Food preparations.	1899 1909 1904 1899	11 8	225 159	12 5 2	56 34	19 157 120	320	594 436	76 28 39	70 48	615 367	18 1,105 657	14 490 290
Foundry and machine-shop products.	1909 1904	72 58 48	3,093 2,244	48 63	38 317 214	93 2,728 1,967 1,897	3,594	258 5,874 3,780 3,405	427 234 181	1,518 986	455 2,270 1,324	790 5,691 3,519	335 3,415 2,195
Furniture and refrigerators	1899 1909 1904	17 18	412 509	14 12	178 32 40	366 457	500	699 652	181 41 42 23	869 197 241	1,349 286 337	3,013 662 778	1,664 376 441
Gloves and mittens, leather	1899 1909 1904 1899	2 8 4 4 5	354 50 47 40	9 5 5 6	23 3 2 3	322 42 40 31	7	435 44 36 19	23 3 2 1	150 14 15 9	210 38 61 33	554 67 90 56	344 29 29 23

<sup>1</sup> Figures can not be shown without disclosing individual operations.
2 Excluding statistics for one establishment, to avoid disclosure of individual operations.
3 Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

# SUPPLEMENT FOR NEW YORK.

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

## CITIES OF 50,000 INHABITANTS OR MORE—ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES—Continued.

			PERSON	S ENGAG	ED IN INI	OUSTRY.							Value
industry.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	ber).			H	xpressed	in thousan	ds.	
SYRACUSE—Continued.			,										
Hosiery and knit goods	1909 1904 1899	5 5 5	421 496 309	7 8 9	31 18 16	383 470 284	330	\$950 563 346	\$33 21 18	\$131 104 76	\$587 608 326	\$969 872 526	\$382 264 200
Jewelry	1909 1904 1 1899	9	19 14	10 6		9 8	4	19 11		7 4	10 10	41 23	31 13
Liquors, malt.	1909 1904 1899	8 8 10	343 325 335	5 3 16	67 69 67	271 253 252	1,783	3,940 3,687 2,994	133 112 123	253 188 168	680 557 405	2,460 1,960 1,814	1,780 1,403 1,409
Lumber and timber products	1909 1904 1899	18 10 12	359 241	12 9	31 3 12	316 229 250	1,059	687 459 455	36 2 8	183 116 104	649 341 375	1,003 572 580	354 231 205
Models and patterns, not including paper patterns.	1909 1904 1899	6 4 3	40 16 10	5 4 3	7	28 12 7	38	31 21 5	4	20 6 5	8 4 3	45 23 19	37 19 16
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	3 14 10	308 36 26	14 16 9	154 ·7 11	140 13 6	239	573 66 31	123 6 9	64 4 2	239 35 20	850 118 46	611 83 26
Printing and publishing	1909 1904 1899	84 2 67 2 49	1,110 884 822	73 59 42	314 249 107	723 576 673	821	1,870 1,315 1,123	251 212 102	444 336 342	611 368 304	2,032 1,479 1,075	1,421 1,111 771
Salt	1909 1904 1899	7 9 12	107 133	4 6	18 14 6	90 113 110	274	375 574 766	8 8 7	42 63 57	13 17 26	89 170 159	76 153 133
Tobacco manufactures	1909 1904 1899	80 84 2 72	571 571 499	89 93 75	28 21 29	454 457 395	58	555 539 375	32 26 26	247 222 168	403 264 280	941 784 664	538 520 384
All other industries	1909 1904 1899	183 177 167	10,187 7,702	133 166	1,402 781 559	8,652 6,755 5,045	10,125	29,026 21,441 14,701	1,600 940 589	5,424 3,530 2,379	9,850 7,732 5,518	23,508 16,248 11,430	13,658 8,516 5,912
TROY—All industries	1909 1904 1899	363 311 327	22,149 20,833	352 310	1,777 1,409 972	20,020 19,114 22,933	18,887	\$39,309 32,697 25,274	\$2,196 1,542 1,268	\$9,407 7,853 8,876	\$15,626 13,746 11,462	\$37,980 31,861 28,739	\$22,354 18,115 17,277
Boxes, fancy and paper	1909 1904 1899	7 4 4	373 229	10 5	15 5 6	348 219 238	255	241 137 171	18 14 4	155 81 90	179 81 118	434 235 302	255 154 184
Bread and other bakery products	1909 1904 1899	36 37 36	238 228	33 41	34 16 33	171 171 145	82	326 256 164	25 8 15	116 107 83	479 440 277	724 718 518	245 278 241
Brick and tile	1909 1904 1899	4 5 6	88 72	4 5	4 3 4	80 64 76	315	143 162 100	4 3 2	41 27 31	12 16 13	90 70 67	78 54 54
Brushes	1909 1904	18 15	622 729	13 19	45 19	564 691	380	655 490	69 30	274 208	345 243	959 659	614 416
Carriages and wagons and materials	1909 1904 1899	6 35 38	41 62 60	5 4 8	3 7 1	33 51 51	35	79 85 75	3 6 2	26 29 29	22 24 28	63 90 83	41 66 55
Clothing, men's, including shirts	1909 1904 1899	11 9 8 5	3,741 2,742	16 17	250 137 121	3,475 2,588 4,657	1,136	6,064 2,548 3,007	294 134 173	1,432 860 1,660	3,337 1,903 1,751	6,976 4,264 4,740	3,639 2,361 2,989
Confectionery	1909 1904 1899	6 5 3	40 47	6 6	10 13 9	24 28 27	25	38 19 24	7 5 7	10 11 9	37 60 22	67 97 46	30 37 24
Copper, tin, and sheet-iron products	1909 1904 1899	10 4 4	88 75	3 9	11 11 3	68 61 36	25	121 140 71	8 10 4	34 29 17	50 42 56	128 108 94	78 66 38
Foundry and machine-shop products	1909 1904 1899	28 23 29	1,028 1,068	28 21	117 113 110	883 934 1,069	1,446	2,889 2,476 2,934	170 156 134	597 554 617	710 677 732	1,953 1,803 2,009	1, 243 1, 126 1, 277
Furnishing goods, men's	1909 1904 1899	21 21 23	10,370 10,051	16 25	578 603 353	9,776 9,423 11,905	2,419	11,948 11,211 7,506	706 550 522	4,049 3,307 3,951	4,780 4,249 3,962	13,639 11,272 10,433	8,859 7,023 6,471
Leather goods	1909 1904 1899	6 3 3	66 37	6 6	$\begin{array}{c} 12\\ 4\\ 3 \end{array}$	48 27 24	13	121 64 10	7 3 1	18 14 11	59 40 15	112 79 37	53 39 22

Figures can not be shown without disclosing individual operations.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

#### CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			PERSON	S ENGAG	ED IN IND	USTRY.			•				Value
industry,	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average num-	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	ber).			E	xpressed	in thousand	ls.	
TROY—Continued.													
Liquors, malt	1909 1904 1899	10 9 9	434 383	6	99 83 71	329 300 303	1,382	\$3,797 3,248 2,522	\$188 155 102	\$243 212 190	\$649 614 445	\$2,406 2,128 1,826	\$1,757 1,514 1,381
Marble and stone work	1909 1904 1899	9 7 6	49 46	13 12	$\frac{4}{2}$	32 32 35	90	87 78 54	2 2	36 24 17	31 23 21	88 76 62	57 53 41
Pottery, terra-cotta, and fire - clay products.	1909 1904 11899	3 3	141 134		27 22	114 112	240	258 274	32 18	52 50	102 39	241 141	139 102
Printing and publishing	1909 1904 1899	33 31 33	539 486	26 28	201 113 42	312 345 367	439	1,006 740 830	169 99 45	204 206 211	248 176 128	969 782 704	721 606 576
Tobacco manufactures	1909 1904 1899	37 43 44	361 366	51 52	29 18 8	281 296 247		286 226 147	24 16 4	166 156 114	245 214 137	579 533 358	334 319 221
All other industries.	1909 1904 1899	118 87 114	3,930 4,078	110 66	338 240 208	3,482 3,772 3,753	10,605	11, 250 10, 543 7, 659	470 333 253	1,954 1,978 1,846	4,341 4,905 3,757	8,552 8,806 7,460	4, 211 3, 901 3, 703
UTICA—All industries	1909 1904 1899	317 333 311	14,634 12,154	276 335	1, 205 937 788	13, 153 10, 882 8, 898	21,874	\$27,796 21,184 17,898	\$1,550 1,084 736	\$5,964 4,477 3,276	\$16,646 12,774 8,194	\$31,199 22,880 16,479	\$14,553 10,106 8,285
Bread and other bakery products	1909 1904 1899	46 38 36	225 168 189	49 40 37	41 11 28	135 117 124	58	336 214 177	22 7 17	79 58 52	345 250 233	541 405 385	196 155 152
Carriages and wagons and materials	1909 1904 1899	7 7 5	59 143	10 9	2 7 1	47 127 34	70	76 159 34	1 8 1	29 75 15	21 48 17	67 164 44	46 116 27
Clothing, men's, including shirts		24 50 2 58	1,634 1,504 1,470	32 58 72	210 142 151	1,392 1,304 1,247	475	2, 019 1, 921 2, 359	257 182 129	651 515 445	1,611 1,598 1,329	3,079 2,943 2,586	1,468 1,345 1,257
Foundry and machine-shop products.		21 28 3 19	1,030 1,380 1,287	13 23 15	85 152 166	932 1, 205 1, 106	1,231	2,232 2,604 2,461	114 198 134	496 637 541	1,298 1,177 1,013	2, 192 2, 708 2, 307	894 1,531 1,294
Gas and electric fixtures and lamps and reflectors.	1909 1904 1 1899	3 3	101 57	2	12 8	89 47	105	252 45	14 8	46 21	98 46	184 91	86 45
Hosiery and knit goods		15 15 12	4,694 3,369 1,796	4 7 7	127 154 62	4,563 3,208 1,727	3,625	5,908 3,015 1,680	235 167 67	1,751 1,069 1,727	4,605 3,390 1,528	8,054 5,261 2,514	3,449 1,871 986
Liquors, malt	1909 1904 1899	5 5 8	232 169 162	8	60 51 34	172 118 120	794	1,766 1,004 638		127 99 90	263	1,393 933 741	1,042 670 559
Marble and stone work	. 1909 1904 1899	9 4 4	66 73	11 7	5 2	51 61 29	250	154 133 44	5	40 28 17		166 135 85	75 83 38
Printing and publishing	. 1909 1904 1899	27 3 29 28	485 454	26 28	164 127 109	295 299 320	533	832 607 527	137	186 172 177	168	861 736 620	639 568 484
Slaughtering and meat packing	. 1909 1904	3 3	23 34	3 7	6	14 21	55	112 79		11 11	141 158	167 198	26 40
Tobacco manufactures	. 1909 1904 1899	43 47 40	229 255 236	50 56 52	20	161 179 165	64	302 255 207	19	86 90 73	124	453 403 371	284 279 255
All other industries	1909 1904 1899	114 104 101	5,856 4,548	78 98	476	5,302 4,196 4,026	14,614	13,807 11,148 9,771	622 286	2,462 1,702	7,694 5,500	14,042 8,903 6,826	6,348 3,403 3,233
YONKERS—All industries	1909 1904 1899	158 106 107	13,746 10,347	150 104		12,711 9,779 7,555	16,978	\$58,769 33,731 12,239	721	\$6,726 4,519 3,264	23,330	\$59,334 33,549 17,304	\$16, 132 10, 219 7, 763
Bread and other bakery products		28 18 17	178 130 98	29 21 18	24 9	125 100 75	13	138 109 69	13 4	89 67	327 243	598 395	271 152 109
Copper, tin, and sheet-iron products.	1	13 5	52 70	17 7	1	34 63	3	65	1	1	25	* 75	50 75
Foundry and machine-shop products		10 2 9 2 12	1,559 961 670	9 7 12	99 63	1,346 855 595	1,952	4, 266 2, 391 1, 013	115 3 49	352	1,241 798	2,212 1,382	584
Marble and stone work	1904 1899	7 3 3			1		vidual oper	93	3 3	33 49 29	) 15	80	65

Figures can not be shown without disclosing individual operations.
 Excluding statistics for one establishment, to avoid disclosure of individual operations.
 Excluding statistics for two establishments, to avoid disclosure of individual operations.

Table I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued.

CITIES OF 50,000 INHABITANTS OR MORE-ALL INDUSTRIES COMBINED AND SELECTED INDUSTRIES-Continued.

			It.										
			PERSO	NS ENGA	GED IN IN	DUSTRY.							Value
INDUSTRY AND CITY OR VILLAGE.	Census	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ- ees.	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.		number).			I	xpressed	in thousan	is.	
YONKERS—Continued.													
Patent medicines and compounds and druggists' preparations.	1909 1904 1899	4 4 4	137 129 121	4 6	52 49 35	81 80 80	66	\$1,932 1,961 174	\$129 172 115	\$36 31 31	\$190 234 222	\$833 953 745	\$643 719 523
Printing and publishing	. 1909 1904 1899	18 1 9 12	160 104 65	14 6 7	43 19 12	103 79 46	91	348 162 134	43 21 17	74 53 27	68 31 18	280 151 123	212 120 105
Tobacco manufactures	1909 1904 1899	17 16 17	32 37 29	19 16 17		13 21 12		21 21 16		7 9 8	12 10 15	33 31 39	21 21 24
All other industries.	. 1909 1904 1899	61 42 42	11,584 8,851	51 41	557 286 192	10, 976 8, 524 6, 710	14,803	51,906 28,996 10,793	882 406 252	5,536 3,808 2,774	41, 490 21, 505 8, 320	54, 588 29, 601 14, 691	13,098 8,096 6,371
	CITIES	OF 10	,000 TO 5	0,000 1	NHABIT		ALL INDU				( 5,020	11,001	0,371
Amsterdam	. 1909 1904	97 89	10,776 8,504	103 95	389 416	10, 284 7, 993	11,745	\$18, 162 14, 554	\$545 404	\$4,823 3,179	\$13, 195 8, 853	\$22, 449 15,007	\$9,254 6,154
Auburn	1899 1909 1904	98 140 111	7,484 7,275	130 120	188 857 495	6, 261 6, 497 6, 660	15, 455	9, 461 23, 743 18, 178	218 701 455	2, 457 3, 157 2, 867	5,990 8,937 8,244	10,643 15,961 13,421	4,653 7,024 5,177
Batavia	1899 1909 1904	120 59 51	2,346 2,033	51 45	311 288 385	5, 895 2, 007 1, 603	3,204	12,427 5,697 4,670	322 349 297	2,452 960 753	5,212 1,781 1,784	9,575 4,401 3,589	4,363 2,620 1,805
Binghamton	1899 1909 1904 1899	266 241	7,997 6,514	239 247	935 631	1,573 6,823 5,636	7,742	3,399 14,214 11,827	167 1,062 589	3, 084 2, 425 1, 891	1,246 8,726 6,421	2,573 17,114 13,907	1,327 8,388 7,486
Cohoes	1909 1904 1899	219 103 98 112	8,596 7,276	84 93	303 273	5,011 8,209 6,910	14, 291	8,654 13,117 10,063	460 439 304	3,387 2,707	5,363 8,176 6,284	10,539 14,831 10,290	5, 176 6, 655 4, 006
Corning	1909 1904 1899	45 57 49	2, 289 2, 583	48 58	201 167 170	8, 273 2, 074 2, 355	1,486	3,216 2,658 1,818	251 191 194	2,971 1,038 1,148	5,908 864 1,075	3,050 3,084	5, 123 2, 186 2, 009
Gortland	1909 1904 1899	51 53 46	2,622 2,487	46 44	220 161 112	1,600 2,356 2,282	6,661	5,460 4,491	139 284 187	740 1,302 1,117	920 3,574 2,598	2,273 6,395 4,574	1,353 2,821 1,976
Dunkirk	1909 1904 1899	57 38 41	3,301 3,656	43 34	502 227 116	1,412 2,756 3,395 2,533	5, 194	2,739 7,079 5,771	125 549 260	1,414 2,003	1,796 3,208 4,749	3,064 6,576 9,909	1,268 3,368 5,160
Elmira	1909 2 1904 1899	154 142 144	4, 425 3, 714	136 126	642 380 271	3,647 3,208 3,570	6,672	4, 134 10, 830 6, 237	735 366	1,336 1,882 1,465	3,015 3,590 3,001	5, 226 8, 067 6, 308	2,211 4,477 3,307
Fulton	1909 3 1904 3 1899	45	3,014	34	181	2,799	17,963	5,991 11,033	242 250	1,491	3,902 4,857	6,597 7,867	2, 695 3, 010
Geneva	1909 1904 1899	56 54 49	1,824 1,812	42 44	256 188 126	1,526 1,580 1,180	2,705	4, 104 6, 441 2, 280	307 217 150	792 805	2,991 2,996	5, 154 4, 952	2,163 1,956
Glens Falls	1909 2 1904 1899	68 49 57	3,048 2,235	69 57	205 126 162	2,774 2,052 3,101	6,772	6, 226 3, 290 4, 055	289 164 156	505 1,223 721 950	1,650 2,309 1,292	2,716 4,877 2,825	1,066 2,568 1,533
Gloversville	1909 1904 1899	187 180 183	6,604 5,603	221 248	642 307 241	5,741 5,048 7,813	6,163	11, 969 8, 027	692 290 239	2,791 2,031 2,395	1,859 8,062 5,252 5,252	3,994 14,171 9,341	2, 135 6, 109 4, 089
Hornell	1909 1904 1899	45 45 48	2,459 2,385	40 44	236 141 110	2, 183 2, 200 1, 549	3,349	5,567 2,866 2,116 1,767	239 239 136 93	1,048 974	5,254 1,878 1,464	9,071 3,648 3,163	3,817 1,770 1,699
Hudson	1909 1904 1899	45 48 45	1,451 1,681	<b>37</b> 49	112 108 74	1,302 1,524 1,132	1,515	2,774 4,073 2,190	127 143	590 576 696	1,308 2,063 2,078	2, 431 3, 507 4, 116	1, 123 1, 444 2,038 1,270
Ithaca	1909 1904 1899	81 67 62	1,105 1,120	72 70	160 177 97	873 873 861	3,045	2, 978 2, 771 2, 523	90 144 191	452 439 424	1,334 840 819	2,604 1,920 2,080 1,501	1,080 1,261
Jamestown	1909 1904 1899	156 149 108	7,753 5,978	142 170	822 571 378	6,789 5,237 4,528	11,679	16,075 10,200	78 995 693	3,305 2,235	7,384 4,251	14,720 10,350	7,336 6,099
Johnstown	1909 1904 1899	138 100 115	3,009 2,745	198 151	222 168 127	2,589 2,426 3,695	3, 410	5, 204 3, 680 3, 589	470 176 140 118	1,718 1,175 943 1,153	3,793 3,925 2,561 2,985	7,731 6,574 4,543 5,123	3,938 2,649 1,982
1 Excluding statistics for one establ	lishment,	to avoid	i disclosure	of indiv	idual one	rations		0,000	110	1,100 1	£,960 l	0,120 1	2, 138

<sup>1</sup> Excluding statistics for one establishment, to avoid disclosure of individual operations.

2 Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within 3 Figures not available.

TABLE I.—COMPARATIVE SUMMARY FOR 1909, 1904, AND 1899—Continued. CITIES OF 10,000 TO 50,000 INHABITANTS—ALL INDUSTRIES COMBINED—Continued.

			PERSO	NS ENGA	GED IN IN	DUSTRY.							Value
CITY OR VILLAGE.	Census.	Num- ber of estab- lish- ments.	Total.	Pro- prietors and firm	Salaried employ-	Wage earners (average	Primary horse- power.	Capital.	Salaries.	Wages.	Cost of materials.	Value of products.	added by manu- facture.
				mem- bers.	ees.	number).			I	expressed	in thousand	is.	
Kingston	1909 1 1904 1899	99 96 109	3,845 2,981	93 94	471 251 150	3,281 2,636 2,042	4, 648	\$5, 924 7, 119 3, 211	\$411 237 148	\$1,366 1,096 925	\$2,582 2,112 1,903	\$5,986 4,812 3,952	\$3,404 2,700 2,049
Little Falls	1909 1904 1899	55 49 52	4, 408 2, 801	58 56	139 124 106	4,211 2,621 2,980	7,742	6,990 4,514 3,953	232 144 121	1,965 1,034 1,049	4, 923 2, 535 2, 233	8,460 4,471 4,071	3,537 1,936 1,838
Lockport	1909 1904 1899	109 109 124	2,574 2,636	90 103	346 210 224	2,138 2,323 2,359	14, 335	10, 227 6, 123 5, 972	425 255 231	1,130 1,110 1,078	5, 350 3, 316 3, 097	8, 168 5, 808 5, 353	2, 818 2, 492 2, 256
Middletown	1909 1904 1899	59 50 51	1,970 1,762	62 58	175 108 58	1,733 1,596 1,396	2,548	3, 695 2, 298 1, 931	181 104 59	902 740 574	2, 905 1, 955 1, 325	4, 658 3, 356 2, 155	1,753 1,401 830
Mount Vernon	1909 1904 1899	90 54 37	1,492 904	76 51	209 183 93	1,207 670 438	1,590	3,202 7,284 4,057	209 150 78	802 426 224	1, 286 784 328	3,376 1,877 910	2,090 1,093 582
New Rochelle	1909 1904 1899	42 28 25	882 595	39 23	108 55 15	735 517 198	620	1,377 814 392	113 48 12	482 342 110	814 462 278	1,669 1,103 508	855 641 230
Newburgh	1909 1 1904 1899	104 79 93	4, 966 4, 620	96 80∎	526 527 281	4,344 4,013 3,074	• 4,902	8, 920 6, 508 4, 519	667 479 264	2,180 1,789 1,316	4, 843 3, 276 2, 648	9,928 7,036 5,358	5, 085 3, 760 2, 710
Niagara Falls	1909 1904 1899	156 85 93	7,214 5,132	117 54	1,008 504 326	6,089 4,574 2,840	95, 792	37, 239 27, 116 14, 344	1,441 591 384	3,588 2,348 1.318	14, 271 9, 192 4, 888	28,652 16,916 8,540	14, 381 7, 724 3, 652
North Tonawanda	1909 1904 1899	81 38 34	3,146 2,194	56 32	266 137 125	2,824 2,025 1,656	15, 888	8, 274 4, S25 4, 947	300 170 147	1,582 994 758	6,389 4,534 4,244	9,600 6,499 6,294	3, 211 1, 965 2, 050
Ogdensburg	1909 1904 1899	75 55 74	1,463 1,064	61 46	143 89 86	1,259 929 809	3, 404	2, 617 2, 722 1, 664	148 89 68	517 341 306	3,508 2,263 1,501	4,948 3,057 2,261	1, 440 794 760
Olean	1909 1904 1899	54 41 47	2,671 1,295	42 41	370 79 115	2,259 1,1 <u>7</u> 5 1,793	5, 202	8,952 4,972 5,745	358 116 121	1,339 624 841	7,728 3,297 4,815	10,005 4,677 6,210	2,277 1,380 1,395
Ossining	1909 2 1904 2 1899	34	477	24	97	356	986	2,063	125	243	466	1,329	863
Oswego	1909 1904 1899	81 77 75	4,247 4,076	58 50	372 280 251	3,817 3,746 3,457	9, 753	11,249 6,710 7,002	453 331 339	1,813 1,462 1,378	6,103 4,717 4,312	10,413 7,592 7,487	4, 310 2, 875 3, 175
Peekskill	1909 1904 1899	52 46 37	2,384 2,158	46 45	283 156 86	2,055 1,957 1,281	3, 133	3, 828 3, 895 1, 427	340 218 95	1,241 1,025 620	2,942 2,282 761	7,888 7,252 1,783	4, 946 4, 970 1, 022
Plattsburg	1909 1904 1899	41 39 39	1,243 876	33 40	161 86 58	1,049 750 621	5,739	2,694 2,066 1,872	158 75 39	513 328 214	1,745 510 524	3,138 1,057 1,043	1,393 547 519
Port Chester	1909 2 1904 2 1899	34	2,334	30	182	2, 122	3,175	5, 417	1	1,040	4,554	6,243	1,689
Poughkeepsie	1909 1904 1899	111 108 118	4,037 4,229	102 105	636 349 185	3, 299 3, 775 2, 810,	3,326	10, 281 6, 657 5, 182	847 357 231	1,659 1,641 1,236	3,867 3,533 2,981	9,151 7,207 5,577	5, 284 3, 674 2, 596
Rensselaer	1909 2 1904 2 1899	33	842	28	51	763	1,263	2,146	i	364	1,166	2,296	1,130
Rome	1909 1904 1899	119 89 87	3,995 3,479	112 83	250 187 135	3,633 3,209 2,274	8,844	8, 903 5, 722 3, 509	355 247 147	1,851 1,392 869	10, 203 5, 694 3, 462	14,423 8,631 5,549	4,220 2,937 2,087
Saratoga Springs	1909 1904 1899	39 35 44	1,065 668	30 28	202 50 157	833 590 602	1,718	4,350 3,485 1,490	251 57	464 284 211	883 702 678	2,337 1,709 1,334	1, 454 1, 007 656
Watertown	1909 1904 1899	107 85 91	3,834 3,365	87 74	456 271 206	3, 291 3, 020 3, 223	13,543	18,662 10,869 7,938	592 372	1,798 1,612 1,589		l	4,700
Watervliet	. 1909 1 1904	36 36	880 1,227	33 33	94	753 1,111	904	1,423 1,353 1,693	127 115	302 470 374	816 839	1,669 1,738 1,507	853 899
White Plains	1899 1909 2 1904 2 1899	33	333	28		1	404	2,095	1	180	1		ļ

<sup>&</sup>lt;sup>1</sup> Figures do not agree with those published in 1904, because it was necessary to revise the totals in order to include data only for those establishments located within the corporate limits of the city.

<sup>2</sup> Figures not a vallable.

TABLE II.—DETAIL STATEMENT FOR

==												TABL	E 11.	-DETA	LIL S	LATE	MEN	T FOR
		Num-		-	PI	ERSON	S ENGA	GED IN I	NDUS'	TRY.			15,	EARNE OR NEA DAY.	RS—NU REST F	MBER REPRES	DEC. ENTA-	
	INDUSTRY.	ber of estab-		Pro-	Sala- ried	Cle	erks.		7	Vage earn	ers.			16 and	d over.	Und	er 16.	Pri- mary
		lish- ments	Total.	prie- tors and firm	offi- cers, supts.			Aver-		Nui	nber.		Total.					horse- power.
				mem- bers.	and man- agers	Male.	Fe- male.	age num- ber.		iximum nonth.		nimum nonth.	-	Male.	Fe- male.	Male.	Fe- male.	
1	All industries	44, 935	1,203,241	47,569	31, 305	87, 404	32, 982	1,003,981	Oc	1,063,162	Ja	945, 356	(1)	(1)	(1)	(1)	(1)	1, 997, 662
2 3	Agricultural implements	57 319	6,851 9,813	41 417	294 146	688 621	111 136	5,717 8,493	Mh Oe	6,916 $9,332$	Au Je	3,958 7,209	5,998 9,040	5,921 1,223	64 7,613	13 16	188	10,744 215
4 5	Artificial stone	176 113	967 11, 610	185 59	33 357	25 1,067	13 266	711 9,861	Au De	995 12,073	Ja Jy	336 8,269	882 12,218	878 12,057	3 150	1 11		1, 122 9, 398
6	Babbitt metal and solder	24	349	18	31	73	35	192	Au	201	Ja	181	193	193				191
8 9 10 11	Bags, other than paper. Bags, paper. Baskets, and rattan and willow ware Belting and hose, leather. Bicycles, motor cycles, and parts	21 20 169 28 20	1, 127 1, 157 1, 486 924 636	14 12 179 22 15	29 34 41 41 24	61 60 22 216 23	23 19 7 41 16	1,000 1,032 1,237 604 558	No No Au De My	1,068 1,093 1,465 691 673	Jy Ja Ja Mh Se	946 949 950 542 469	1,070 1,052 1,427 698 604	331 546 1,073 673 592	664 506 350 21	5 4 4 9	70	751 1,046 1,882 1,988 406
12	Blacking and cleansing and polishing preparations.	88	1,188	58	93	240	139	658	Му	696	Ja,	614	676	311	359	6		539
13 14	Bluing.  Boots and shoes, including cut stock and findings.	15 296	70 23, 815	13 293	5 502	8 759	$\frac{2}{634}$	21,627	Je De	$\frac{45}{22,755}$	Ja Ja	37 20, 655	$\frac{44}{22,857}$	20 14, 548	$\frac{22}{7,847}$	255	2 207	15 10, 456
15 16	Boxes, cigar	56 315	1,725 12,702	67	31	. 81	15	1,531	De	1,670	Mh	1,470	1,686	861	770	15	40	1,180
17 18 19 20	Boxes, faney and paper. Brass and bronze products. Bread and other bakery products Brick and tile. Brooms.	58	7,596 29,039 8,630 1,197	351 218 4, 212 212 58	299 244 330 208 40	334 353 1,745 118 42	180 130 1,395 12 17	11,538 6,651 21,357 8,080 1,040	De De No Jy Mh	12,584 7,739 21,757 13,787 1,108	Jy Ja Fe Fe Jy	10,815 5,903 20,987 1,431 860	12,611 7,694 22,024 10,015 1,058	4,317 7,265 18,988 10,004 993	7,928 410 2,926	54 19 92 11 5	312 	4,677 13,397 10,319 28,734 581
21 22 23 24	Brushes Butter, cheese, and condensed milk. Buttons Candles.	$113\\1,552\\165\\9$	2,222 4,930 6,877 420	127 1, 483 206 4	59 271 121 19	133 234 272 34	46 76 152 16	1,857 2,866 6,126 347	No Je De De	1,987 3,588 6,493 386	Jy Ja Ja Au	1,767 2,065 5,567 315	1,988 3,163 6,649 386	1,385 2,868 3,554 200	546 278 2,907 146	44 17 36 17	13  152 23	1,049 16,629 3,911 147
25 26 27 28	Canning and preserving Carpets and rugs, other than rag Carpets, rag Carriages and wagons and materials.	790 16 34 610	8,818 12,272 272 7,333	879 11 33 693	293 70 9 192	458 264 24 257	113 29 6 75	7,075 11,898 200 6,116	Oc De Je My	15,475 12,192 232 6,384	Fe Ja Ja Se	2,058 11,570 164 5,925	17, 198 12, 192 196 6, 206	7,540 6,708 142 6,101	9,483 5,406 50 105	102 51 2	73 27 2	12, 469 11, 901 350 10, 029
29	Cars and general shop construction and repairs by steam-railroad com- panies.	69	18,003		546	984	19	16, 454	De	17,433	Му	15, 641	17,433	17,415	11	7		21,423
30	Cars and general shop construction and repairs by street-railroad com- panies.	62	4,767		134	145	8	4, 480	Se	4, 655	Jу	4, 229	4,773	4,750	22	1		4,367
31	Cars, steam-railroad, not including operations of railroad companies.	4	2,581		24	154	16	2,387	Fe	2,929	Jу	1,593	2,907	2,880	27			3,345
32 33 34 35	Cement. Chemicals Chocolate and cocoa products. Clocks and watches, including cases and materials.	15 74 10 27	1,573 6,869 977 2,854	14 19 3 11	42 228 20 57	61 714 173 239	13 162 26 80	1,443 5,746 755 2,467	My De Se <sup>2</sup> No	1,765 6,130 830 2,625	Ja Mh Jy Ja	1,087 5,480 654 2,350	1,692 6,123 794 2,622	1,691 5,932 540 2,147	1 177 253 436	7 1 23	7 16	24, 385 116, 197 2, 930 1, 311
36 37	Cloth, sponging and refinishing Clothing, men's, including shirts	25	729 104,567	32	22	61	10 1,899	604 91, 363	No	631	Ja	563	621	595	26			329
38 39	Clothing, women's Coffee and spice, roasting and grind-	3,083	114,925 2,394	4, 413 101			3,373	98, 104 1, 519	De Oc Oc	95,637 109,317 1,579	Ap Jy My	88,298 83,160 1,450		57,225 43,511 1,061		98 64	322 406 2	13,821 12,379 4,064
40	Coffins, burial cases, and undertakers' goods. Confectionery.	34	1,556	27	69	195	30	1,235	Mh	1,271	Jу	1,167	1,235	971	259	3	2	1,813
42	Cooperage and wooden goods, not elsewhere specified.	249 364	10,116   3,164	237 415	245 61	773 43	291	8,570 2,611	No Se	10, 264 3, 073	Ју Ја	7,755 2,049	9,799 3,037	3,924 2,930	5, 679 96	12	184	7,966
43 44	Copper, tin, and sheet-iron products.  Cordage and twine and jute and	686 16	17, 153 6, 230	663 9	500 62	926 165	375 42	14,689 5,952	No Mh	15, 945	Ja	13, 100	16,045	14,033	1,914	77	21	4,278
45 46	linen goods. Cordials and sirups Cork, cutting	38 32	493 928	36 29	22 26	118 27	23 11	294 835	Je Au	6,069 501 910	Je De 2 Ja 2	5,716 213	5,991	2,781 183	3,165	21	24	15,056 453
47 48	Corsets. Cotton goods, including cotton small	47 47	2,787 11,032	46 23	46 126	204 175	55 45	2, 436 10, 663	Mh	2,584	Му	745 2,304	2,430	280	383 2,138 4,553	1	3 11	692 523
49	Cutiery and tools, not elsewhere	161	5,070	152	157	188	95	4, 478	Fe De	*10, 881 4, 673	Oc Jy	10,502 4,256	10,848 4,679	5,995 4,075	4,553	216	84 65	33,354 6,571
- 1	Dairymen's, poulterers', and apiarists' supplies.	31	1,250	30	41	273	104	802	Му	988	Jу	664	744	729	14		1	1,214
52	Dentists' materials.  Dyeing and finishing textiles.	15 81	379 5,782	10 68	22 131	55	26	266	Se	276	Ap	258	268	172	94	2 .		221
54	Electrical machinery, apparatus, and supplies	18 217	579 22,819	7 95	38	247 84 2,090	84 32 787	5, 252 418 18, 972	Oc Fe De	5,571 444 21,912	De Jy Ja	4,682 392 16,653	5,553 404 22,503	390	1,640 14 3,102	24 55	6	8,750 3,647 53,813
	Electroplating Emery and other abrasive wheels	130 10	878 894	155 3	26 29	29 127	16 16	652 719	De De	688 869	Jy Mh	610 612	700 874	669 695	23 176	8 .	3	842 960
59	Enameling and japanning. Engravers' materials. Fancy articles, not elsewhere specified.	17 8 182	100 84 4, 234	18 7 190	2 8 140	2 7 316	2 4 158	76 58 3, 430	Oc No No	89 65 3,882	Jy Fe² Je	68 52 3,180	71 64 3,735	53 64	18 1,284	46	34	98 177 2,785
60 61	Fertilizers. Files.	15 11	1,041	8 15	28 12	75 4	$\begin{bmatrix} 22 \\ 2 \end{bmatrix}$		Au De	194		671 162	686 196	686 192	3	···i		2,799 324
			1 N	o figur	es give	n for r	easons	explained	l in tl	ne Introd	uction	1.						

THE STATE, BY INDUSTRIES: 1909.

	and the second s					EXPENS	es.						
	Capital.			Services.		Mate	rials.		Miscell	aneous.		Value of	Value added by manu-
	Capitali	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	facture.
1	\$2,779,496,814	\$2,986,241,238	\$77, 873, 121	\$108,158,949	\$557,230,839	\$62,797,016	1,794,107,326	\$34, 633, 449	\$40,885,311	\$69,562,602	\$240,992,625	\$3,369,490,192	\$1,512,585,850
2	26,108,792 7,982,306	12,263,095 18,186,583	414,694 271,699	597, 477 753, 212	3,270,305 3,451,994	259,683 44,221	6,154,967 12,214,237	6,036 $452,449$	98,800 2,775	1,146 $180,135$	1,459,987 815,861	14,970,980 21,162,385	8,556,330 8,903,927
4 5	1,428,634	1,078,182 27,364,888	39,509 863,733	20,328 739,801	389,586 7,016,306	13,349 256,504	510,047 14,651,598	24,578 272,763	4,606 47,781	4,618 2,873	71,561 3,513,529	1,356,586 30,979,527	833,190 16,071,425
6	25, 102, 473 1, 918, 180	5,683,925	88,509	92,621	149,348	27,776	5,042,907	16,105	4,734		261,925	6,123,088	1,052,405
7 8 9 10	1,887,689 3,280,869 1,180,717 4,441,596 853,498	4,888,455 4,979,967 1,650,998 5,356,861 1,048,199	73,447 179,958 41,972 116,186 52,205	75, 412 83, 898 19, 897 248, 630 21, 771	330,343 425,724 582,611 394,609 344,872	$16,744 \\ 22,629 \\ 10,641 \\ 41,860 \\ 11,604$	4,099,290 3,910,637 809,565 4,058,781 510,406	39,450 32,912 23,746 26,535 11,469	2,148 $16,756$ $4,710$ $9,091$ $1,705$	6,868 4,686 2,672 2,555	251, 621 300, 585 153, 170 458, 497 91, 612	4,986,279 5,613,241 1,946,985 6,419,500 1,165,271	870,245 1,679,975 1,126,779 2,318,859 643,261
12	2,231,504	3,374,323	192, 429	368,572	296,612	23,495	1,803,114	47,794	5,693	2,420	634,194	3,835,833	2,009,224
$\frac{13}{14}$	52,911 26,047,823	106,606 44,889,191	$\begin{bmatrix} 6,110 \\ 1,011,762 \end{bmatrix}$	7,288 1,241,984	14,312 10,668,548	724 256,305	64,631 28,718,206	3,187 365,482	276 48,643	72,075	10,023 2,506,186	133,062 48,185,914	67,707 19,211,403
15	1,128,665	2,087,814	80,779	70, 410	658,957	18,860	1,107,215	54,913	4,386	120	92,174 754,560	2,234,345 14,233,672	1,108,270 8 120 837
16 17 18 19 20	8,072,393 16,591,482 38,573,285 13,864,023 1,400,494	12,577,024 19,818,458 75,514,724 6,905,804 1,997,971	513,333 564,519 738,325 305,358 93,244	410,500 459,721 1,988,785 100,905 41,616	4,261,453 3,950,841 13,880,684 3,957,760 452,328	150,492 394,016 1,639,571 1,153,545 10,600	5,962,343 12,744,746 51,098,900 563,735 1,246,361	456,785 181,709 1,963,765 137,994 11,398	19,747 48,537 221,117 67,723 4,215	47,811 43,140 12,452 21,581	1,431,229 3,971,125 597,203 138,209	22, 184, 189 86, 232, 985	8,120,837 9,045,427 33,494,514 6,715,524 957,167
21 22 23 24	2,525,103 12,216,234 6,367,149 1,170,248	3,386,705 39,367,847 7,875,133 1,510,383	125, 453 275, 972 267, 851 56, 094	145, 409 230, 952 379, 593 50, 080	873,177 1,607,364 2,461,573 135,585	42,523 470,264 95,520 13,237	1,880,354 35,690,803 4,072,191 1,085,562	67,607 39,019 128,217 4,220	8,270 58,666 14,446 4,426	14,035 12,246 113,866	229,877 982,561 341,876 161,179	4,075,839 42,458,345 9,373,030 1,669,934	2,152,962 6,297,278 5,205,319 571,135
25 26 27 28	15,824,766 27,527,617 202,395 14,576,400	16,923,102 21,680,151 218,721 11,359,828	451,347 323,580 11,261 376,948	464, 385 362, 836 20, 260 354, 079	2,563,194 5,870,298 95,091 3,739,940	307,725 309,335 5,921 172,032	11,361,060 13,005,837 58,544 5,636,686	83,398 106,555 9,240 239,547	46,688 65,661 974 72,991	3,024 35,523 38,688	1,642,281 1,600,526 17,430 728,917	19,039,735 25,606,262 285,838 13,292,531	7,370,950 12,291,090 221,373 7,483,813
29	15,264,382	21,730,091	554,349	687,225	9,801,863	489,192	9,598,369	4,450	95,517	109	499,017	21,726,491	11,638,930
30	11,304,448	6,639,747	170,857	110,907	2,832,234	115,922	3,063,919	6,610	126,011		213,287	6,639,788	3, 459, 94
31	5,458,697	5,396,983	53,724	155,530	1,577,237	48,986	3,377,074		26,560	44,119	113,753	5,939,741	2,513,68
32 33 34 35	10,167,992 46,464,550 3,088,462 8,044,421	2,080,060 27,482,455 5,330,009 5,344,032	98,132 792,610 97,667 199,877	68,370 830,270 260,184 432,510	810,080 3,375,688 294,467 1,385,048	535,607 2,707,706 62,160 36,737	263,922 17,000,848 4,104,355 2,243,789	10,720 66,760 54,000 35,288	6,841	5,877 7,864 7,182	260,306 2,449,890 450,335 986,039	2,408,546 35,346,072 5,823,319 6,183,762	1,656,80
36	362,669	786,535	40,375	49,282	417,419	21,699	38,518	80,165		00.070.450	138,842		į.
37 38 39	119, 421, 285 84, 213, 014 6, 829, 294	240,683,678 241,508,350 15,228,748	3,132,362 3,367,724 205,927	7,817,113 10,100,944 610,418	48,073,213 54,840,793 725,929	938,601 1,171,158 154,923	134,388,042 146,971,317 12,498,896	3,206,262 5,390,897 160,721	36,078	30, 956, 459 8, 929, 305 2, 102	10,700,134	272,517,792	124,375,31
40		3,418,054	121,908	205,425	664,657	32,957	2,037,641	37,023	14,957	175	303,311	3,785,439	1,714,84
41	11,702,475	23,145,392	750,552	829,471	3,078,532	267,807	15,376,269	489,754	1			ll .	
42 43	1 ' '	6,705,531	99,846	51,002 986,690	1,222,126 8,383,814	58,686 757,967	4,871,443	31,125	128,898	ı	2,376,633		1 ' '
44	15,776,978	11,442,917	195,339	179,800	2,163,560	159, 452	7,429,498 1,482,510	93,460 36,413	ì	i	250,488	11	1,023,57
45 46	978,892	1,690,871	48,715	176,936 26,507	313,349	1	1, 153, 879	34,822	2,969	1	1	II	647,10
47 48		4,603,511 18,331,670	105,268 368,722	277,597 223,542	1,008,410 4,166,333		2, 459, 496 11, 319, 361	1	182,024	269,789	1,365,350	20,351,555	1
49			11	226, 144		131,213 22,253	1,722,080 1,263,045	1		l .			i
50 51				340,622 69,645			4,563,736	1	1				
52 53 54	11,258,953 4,145,223	8,248,384 3,884,806	489, 897 145, 933	274,814 118,129 2,566,202	2,321,016 259,501	409,069 46,969 935,713	3,730,192 2,820,108 26,546,898	15,64 233,99	$\begin{bmatrix} 18,511 \\ 0 & 166,413 \end{bmatrix}$	39,569	3,886,22	4,505,310 49,289,81	21,807,20
55 56	450,036 2,413,653	829,674 2,158,280	36, 163 90, 617	23,117 162,729	421,420 385,286	33,030 121,901	208,584 957,767	67,89 13,75	6 72: 7 6,84		419,37	2,561,01	1,481,34
57 58 59	147,912 129,890 6,369,852	302.343	2,700 19,276 286,274	9,181	1,643,892	1	3,258,442	10,86	9 16,213	8 463 3 105,96	781,71	9 7,862,07	5 4,541,52
60 61	3,692,388 221,523	3,610,137 166,879	89, 158 13, 931	98,617 4,220	542,119 75,974	85,799 7,333	2,568,968 53,089	$\begin{array}{c c} 7,02 \\ 2,71 \end{array}$	0 11,73 7 1,07	1,30 7 49	$\begin{array}{c c} 0 & 205,42 \\ 8,04 \end{array}$	2 4,250,56 201,49	8 1,595,8 5 141,0

2 Same number reported for one or more other months.

TABLE II.—DETAIL STATEMENT FOR THE

_					P	ERSO	ns eng	AGED IN	INDUS				WAGE 15,	EARNI OR NEA	ERS-NU	MBER	DEC	R THE
	INDUSTRY.	Num- ber of		Pro-	Sala-	Cl	erks.		Т	age earn	iers.			11	d over.	Und	er 16.	Pri- mary
		estab- lish- ments	Total.	prie- tors and firm	offi- cers, supts.			Aver-		Nu	mber.		Total.					horse- power.
				mem- bers.	and man- agers.	Male	Fe- male	num- ber.		ximum nonth.		inimum nonth.		Male.	Fe- male.	Male.	Fe- male.	
1 2 3 4	Firearms and ammunition. Fire extinguishers, chemical Fireworks Flags, banners, regalia, society badges, and emblems.	8 9 7 64	1,910 93 461 1,025	1 1 1 73	28 13 17 26	66 12 20 44	34 9 5 69	1,781 58 418 813	Ja De My Se	1,912 63 487 882	Ja Jy	1,681 46 257 722	1,848 63 406 877	1,809 59 230 349	39 3 156 509	1 6 13	14	2,312 51 94 266
5 6	Flour-mill and gristmill products Food preparations	983 177	5,120 4,163	1,191 179	232 155	559 589	148 217	2,990 3,023	No Oc	3, 156 3, 474		2,820	3,125	2,987	131	3	4	79,098
7 8	Foundry and machine-shop prod-	1 1	75,746 11,263		2, 795 185	5,869 1,107	1,545	64,066 8,244	De No	70,608	Ja	2,784 58,467	3,333	2,050 69,729	1,243 1,261	10 163	30 4	6, 061 102, 437
10	Fur goods. Furnishing goods, men's. Furniture and refrigerators.		20,758 23,195	466 655	281	1,260 1,148	565 365	18, 186 20, 281	No Oc	10, 482 19, 313 21, 912	Ja Ja	6, 190 16, 702 18, 755	9,857 20,039 22,171	6,632 4,483 21,476	3, 200 15, 466 570	9 17 122	16 73 3	1,102 3,284 28,260
11 12	Furs, dressed	1 1	893 7,188	70 142	20 262	40 613	8 154	755 6, 017	Ap De	859 6, 707	De Ja	620 5,522	692 6, 726	688 6, 265	4 438	23		1,172 3,831
13 14 15	Gas, illuminating and heatingGlass, cutting, staining, and ornamenting.	141 24 156	9,221 3,295 3,570	15 7 165	398 77 93	2, 162 69 113	224 28 81	6, 422 3, 114 3, 118	Je My De	6,950 3,789 3,368	Fe Au Jy	5,538 1,497 2,886	6,643 3,818 3,385	6,625 3,598 2,989	10 130 357	8 84 25	6 14	30,089 1,774 957
16 17 18	Gloves and mittens, leather	225 41 10	7,195 502 64	312 48 13	137 4 2	272 7 7	187 6	6, 287 437 42	No De De	6,809 447 43	Ja Jy	5,822 427	6,788 447	3,343 212	3,334 226	64 6	47 3	1,003 81
19 20	ing, not from the ore. Hair work. Hand stamps and stencils and brands.	132 63	2, 733 522	166 62	20 30	150 41	84 20	2, 313 369	No De	2, 611 390	Ja Ja Au	2,126 354	2,541 393	1,096 330	1,434 52	3 11	8	97 4 113
$\frac{21}{22}$	Hat and cap materials. Hats and caps, other than felt, straw, and wool. Hats, fur-felt.	32 244	1,087 4,000	33 348	32 55	46 200	11 49	965 3, 348	Se No	1,074 3,574	Ap Ap	824 3,156	1,055 3,546	705 2,779	343 760	6 6	1	713 413
23 24 25	Hats, fur-felt. Hats, straw Hosiery and knit goods.	44 46	5,379 2,922	47 47	74 84	202 193	43 90	5, 013 2, 508	No Mh	5,461 $3,243$	Fe Jy	4,548 1,510	5,417	3,597 1,015	1,777 1,803	21	22 14	1,451
26	House-furnishing goods, not else-	360 99	37,673 2,175	302 100	479 77	655 111	287 75	35, 950 1, 812	No De	37,244 1,909	Ja Ja	33,712 1,755	2,832 38,419 1,930	13, 289 783	24, 424 1, 123	165	541	835 35, 882 2, 983
27 28 29 30	where specined.  Ice, manufactured  Ink, printing  Ink, writing  Instruments, professional and scientific.	89 29 9 87	1,372 908 217 2,423	34 20 8 73	115 57 17 88	86 256 40 218	13 50 5 80	1,124 525 147 1,964	Jy Ap Oc De	1,485 540 195 2,056	Ja Ja Fe Au	753 512 118 1,899	1,091 529 147 2,020	1,091 519 72 1,696	10 74 300	1 1 12	12	21, 375 2, 301 58 1, 899
31 32	Iron and steel, blast furnaces Iron and steel, steel works and	9 25	2,562 11,089	4	39 175	200 754	25 65	2, 298 10, 091	De De	2,842 11,785	Ap	1,929		2,839 11,734	3			95, 416
33 34 35	rolling mills.  Jewelry  Jewelry and instrument cases  Kaolin and ground earths.	479 67 18	7,146 1,364 317	603 75 13	176 43 25	588 51 15	400 23 4	5,379 1,172 260	No No Fe	5,935 1,290 292	Ap Ja Je	5,087 1,064 213	5,882 1,279 268	11,734 4,985 599 268	108 770 670	14 111 3	16 7	136, 456 1, 596 214
36 37 38 39 40	Lapidary work Lasts Lead, bar, pipe, and sheet Leather goods Leather, tanned, curried, and fin- ished.	43 14 9 483 109	681 414 225 9, 283 6, 278	54 10 1 587 132	25 25 15 245 131	75 14 19 637 247	28 5 5 228 80	499 360 185 7,586 5,688	No De Se Oc De	539 396 198 8, 357 6, 023	Ja Ap Je <sup>1</sup> Ja My	444 343 177 7,045 5,237	539 396 186 7,906 6,085	528 392 185	5 1,406 140	6 4 1 52 22	27	5,815 592 610 1,247 1,836 14,265
44 45	Lime Liquors, malt Liquors, vinous Looking-glass and picture frames Lumber and timber products	33 184 41 140 2,263	527 10,705 452 1,891 32,458	29 75 24 144 2,519	20 592 45 70 ,014	13 ,266 93 139 ,127	41 19 47 327	465 8,731 271 1,491 27,471	Au Jy Oc No Oc	529 9, 081 373 1, 683 28, 802	Fe Fe Au Ja <sup>1</sup> Fe	358 8,486 227 1,381 25,959	478 8,856 356 1,642 31,926	477 8,849 323 1,515 31,631	7 33 112 208	13 87	2	781 49,729 712 866 131,462
48 49	Malt. Marble and stone work. Mattresses and spring beds. Millinery and lace goods. Mirrors.	32 655 168 931 47	645 8, 469 2, 088 25, 369 1, 160	20 768 178 1,234 50	43 339 81 500 35	50 356 143 ,786 69	8 67 65 771 23	524 6,939 1,621 21,078 983	De Jy Oc Mh De	663 7,777 1,740 23,617	Au Ja Ja Je Ja	383 5,237 1,487 17,278	626 7,497 1,616 22,177	626 7, 414 1, 335 4, 768	73 279 17,102	10 2 57	250	5, 659 18, 110 1, 581 3, 511
51 52	Models and patterns, not including paper patterns.	136	1,382	147	49	74	30	1,082	Oc	1,054 1,152	Jе	904	1,054	1,031	22 148	1 .	5	1,145 910
53	Moving pictures. Musical instruments and materials, not specified.	52 52	295 360	51	21 11	67 15	21 11	185 272	De De	212 296	Ja 1 Je	172 260	212 297	149 274	60 23	1	2	195 176
- 1	Musical instruments, pianos and organs and materials. Needles, pins, and hooks and eyes	184	13, 102	7	359	472	216 2	11,938	De De	12,705 141	Jy Se	11,131	12,878		556	133	8	10,905
00	Oil, essential Oil, linseed Oilcloth and linoleum Optical goods. Paint and varnish	6 6 4 51 147	28 691 1,153 2,563 4,741	5 5 2 49 78	26 15 45	1 77 28 261	17 6 161	18 566 1,102 2,047	De 1 Ap De De	27 678 1,173 2,225	Je 1 Au Au Fe	120 13 371 1,037 1,975 2,908	2,224	31 398 1,070 1,680	1 . 103 . 528 .	13		157 124 4,845 2,384 1,896
61 62 63 64	Paper and wood pulp Paper goods, not elsewhere specified. Paper patterns. Patent medicines and compounds	178 107 16 743	13,018 5,257 1,507 8,566	59 68 12	425 171 26	352 532 291	270 109 183 417	12, 073 4, 303 761	No My No Se	12,788 4,517 875	Ja Au Ja Je	11,433 4,101 690	3, 125 12, 531 4, 519 773	2,862 12,100 2,034 138	252 431 2,399 629	9	3 2 74 6	10, 857 337, 548 6, 257 669
65	and druggists' preparations. Pens, fountain, stylographic, and gold.	30	1,108	25	, ,	530  1 197	,136 112	-	De Fe	4,998	Au Au	4,358 685	5,063 755	2,335	2,691	15 7	22	5, 423 192
		**	1	Same n	umber	repor	ted for	one or m	ore ot	her mont	ths.	!!		İ		l	1	

STATE, BY INDUSTRIES: 1909—Continued.

						EXPENS	ES.			•			
	Capital.		-	Services.		Mate	erials.		Miscell	aneous.		Value of products.	Value added by manu-
	-	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	facture.
1 2 3 4	\$4,343,117 113,670 938,835 1,186,621	\$2,217,270 264,783 725,134 1,634,716	\$63,955 34,100 43,599 40,134	\$86, 238 13, 130 28, 630 73, 585	\$1,161,563 37,020 189,177 354,053	\$40,792 2,575 3,697 13,691	\$466,745 100,800 324,447 877,931	\$540 5,764 6,435 44,230	\$14, 458 141 2, 263 2, 218	\$450 2,650 11,722	\$382,529 68,603 126,886 217,152	\$2,373,888 269,002 748,816 1,864,080	\$1,866,351 165,627 420,672 972,458
5 6	30, 270, 090 9, 232, 770	65,323,183 15,193,362	405,245 482,914	544, 688 746, 098	1,668,631 1,332,061	385, 875 219, 798	60, 084, 426 9, 440, 455	87,752 157,854	121,582 43,666	145,510 1,796	1,879,474 2,768,720	69,802,278 17,324,076	9,331,977 7,663,823
7 8 9	208,320,397 19,509,480	133,528,614 34,949,986	6,725,741 474,120	6, 471, 632 1, 285, 484	40,602,327 5,704,292 7,756,206	2,634,372 89,582	58, 986, 828 24, 050, 673	1,268,670 953,214 481,504	640,590 49,572	1,305,175 267,273 1,375,293	2,075,776 2,708,150	154,370,346 41,301,451	92,749,146 17,161,196 20,620,777
10	24,110,032 34,676,291	36,501,065 37,593,403	756,036 1,526,694	1,810,322 1,307,685	11,668,576	147, 804 471, 912	21, 428, 536 18, 684, 530	658,862	37,214 144,582	228,943	2,901,619	41,301,451 42,197,117 41,928,774	22,772,332
11 12	744, 195 10, 840, 229	980, 494 11, 973, 951	44, 163 756, 727	41,880 659,053	517,189 3,455,674	29, 504 155, 255	242,645 $5,257,025$	39,037 315,811	2,528 45,246	185 32,241	63,363	1,239,725 13,010,249	967,576 7,597,969
13 14 15	278,606,545 4,817,663 3,015,036	28,659,181 3,839,887 4,320,189	983,886 190,764 212,320	1,997,932 81,502 156,493	4,363,632 1,806,470 1,841,362	10,600,770 325,958 55,801	4,417,636 833,119 1,613,315	11,963 15,263 115,271	2,549,473 14,650 5,016	3, 194 16, 887 13, 518	3,730,695 555,274 307,093	42,346,726 4,508,790 4,846,692	27,328,320 3,349,713 3,177,576
16 17 18	10,536,984 347,650 540,369	$12,866,261\\829,670\\2,480,044$	216,839 4,740 5,000	405,881 7,548 7,576	2,840,865 $234,752$ $34,271$	50, 265 3, 604 7, 845	7,972,749 508,425 2,388,078	58,691 11,132 17,160	11, 138 709 1,573	973,856 8,114 3,750	335,977 50,646 14,791	14,336,365 918,650 2,603,311	6,313,351 406,621 207,388
19 20	3,266,777 450,986	6,407,091 602,091	36,228 53,557	194,050 38,842	$1,060,775 \ 218,427$	17,531 6,486	4,482,796 204,377	114,468 35,751	2,664 1,561	111,526 14,914	387,053 28,176	7,861,306 717,133	3,360,979 506,270
$\frac{21}{22}$	2,580,171 2,798,244	3,495,821 6,749,502	53,703 119,360	65,136 272,091	423,533 2,003,808	21, 943 36, 062	2,752,730 3,839,147	62,015 175,623	1,343 1,392	48,094	115,418 253,925	3,834,671 7,825,922	1,059,998 3,950,713
23 24 25	5,702,386 3,592,477 52,582,240	9,620,859 6,587,141 59,754,254	161,713 229,174 1,149,844	230, 948 302, 015 891, 969	2,725,118 $1,472,555$ $14,838,655$	107, 491 45, 741 648, 588	5,298,774 3,947,655 38,028,783	49,709 145,725 230,545	17,832 4,481 156,689	153,464 2,844 692,058	875,810 436,951 3,117,123	10,218,660 7,617,000 67,130,296	4,812,395 3,623,604 28,452,925
26	4,015,268	7,197,361	142,915	163, 281	785,647	38, 384	5,651,844	82,882	7,264	8,901	316,243	7,788,939	2,098,711
27 28 29 30	7,765,592 3,051,635 606,355 4,478,366	2,936,243 3,365,146 588,431 3,082,030	212, 628 302, 523 50, 700 233, 410	74, 222 276, 627 69, 695 262, 419	834,547 370,032 62,033 1,146,061	760, 287 46, 254 3, 521 52, 770	283,981 1,831,888 280,862 922,254	161,302 38,169 14,342 83,100	66,386 14,384 3,753 10,325	5,301 31,271	537,589 485,269 103,525 340,420	3,808,070 4,058,557 744,769 3,307,978	2,763,802 2,180,415 460,386 2,332,954
31 32	39,666,101 61,453,060	23,769,980 34,651,251	211,226 539,883	197, 171 752, 194	1,758,054 6,323,190	7,967,326 2,170,165	12,949,834 23,719,005	78,165 16,074	103,635 119,339	2,746	504,569 1,008,655	26, 620, 948 39, 532, 414	5,703,788 13,643,244
33 34 35	13,662,594 1,126,576 5,509,218	17,003,914 1,482,225 539,771	465,142 76,153 39,632	727,705 50,137 14,029	3,820,497 519,109 109,946	111,356 10,651 23,804	10,321,561 667,379 222,127	367,206 52,549 11,547	7,164 513 7,433	126,191 2,661	1,057,092 103,073 111,253	20, 362, 620 1,780, 667 737, 765	$\begin{array}{c} 9,929,703 \\ 1,102,637 \\ 491,834 \end{array}$
36 37 38 39 40	4,252,425 448,913 1,123,250 10,379,203 25,755,338	7,410,892 690,583 2,038,930 18,821,621 25,815,974	68,411 52,735 41,460 497,154 379,701	92, 453 24, 031 37, 019 760, 967 309, 022	791,486 243,148 119,916 4,088,837 2,911,973	22,817 15,389 12,541 103,841 318,745	6,296,084 237,451 1,708,210 11,528,260 20,621,988	42,820 30,374 12,597 443,544 85,282	1,017 1,696 7,550 16,131 43,114	1,040 26,512 134,934 124,240	94,764 85,759 73,125 1,247,953 1,021,909	8,659,980 787,146 2,068,765 20,996,602 27,642,383	2,341,079 534,306 348,014 9,364,501 6,701,650
41 42 43 44 45	1,105,997 127,492,415 3,685,196 2,208,690 64,490,672	487,018 62,985,707 1,380,062 3,076,681 65,012,600	23, 972 3, 154, 312 87, 071 156, 465 1, 641, 265	7,904 1,896,760 129,529 155,119 1,156,505	235, 950 7, 294, 454 127, 548 885, 137 15, 100, 744	117,527 1,573,063 9,625 26,099 518,540	58,236 17,309,964 771,168 1,436,454 41,186,551	3,192 25,825 6,439 156,069 442,180	5,561 13,368,504 37,259 5,784 313,343	24, 658 1, 129, 589	34,676 18,362,825 211,423 230,896 3,523,883	580, 175 77, 720, 045 1,816, 620 3,554, 555 72, 529, 813	$\begin{array}{c} 404,412 \\ 58,837,018 \\ 1,035,827 \\ 2,092,002 \\ 30,824,722 \end{array}$
46 47 48 49 50	21,978,213 16,271,330 3,059,872 19,920,353 1,548,401	10,043,427 15,399,882 5,243,466 44,636,803 2,975,757	139, 275 657, 682 120, 010 969, 543 64, 185	75,305 349,480 140,988 2,263,208 81,304	400,790 5,636,063 922,125 9,625,609 630,334	216,817 256,045 40,394 251,638 29,898	8,655,625 6,819,479 3,420,189 26,883,145 1,969,407	47,912 267,904 151,998 1,227,620 70,403	61,079 100,364 8,166 21,793 7,090	242 430,144 150 790,874 2,616	446, 382 882, 721 439, 446 2, 603, 373 120, 520	11,051,078 17,921,285 5,898,625 52,106,200 3,262,470	2,178,636 10,845,761 2,438,042 24,971,417 1,263,165
51	1,531,210	1,899,482	103,363	87,674	735,865	31,269	589,191	78,075	3,111	21,304	249,630	2,460,661	1, 840, 201 651, 817
52 53	342, 988 450, 712	1,142,750 463,489	122, 221 17, 422	69,050 16,396	119,911 153,632	6,271 7,052	641, 462 204, 115	13,652 28,672	719 1,182	14,040 6,789	155, 424 28, 229	1,299,550 569,985	358,818
54 55	33,019,385	30,567,168 215,891	1,150,241	719,776 4,934	7,752,487 50,077	212,493 2,726	17, 282, 254 90, 714	523,982 4,191	138, 210 497	216, 916 18, 136	2,570,809 26,444	33,679,953 289,762	16, 185, 206 196, 322
56 57 58 59 60	133,818 7,241,282 2,901,569 4,546,980 22,002,185	165,037 14,036,520 3,104,373 3,355,386 25,598,075	6,100 393,906 71,114 133,593 880,904	855 79, 491 42, 316 120, 283 1, 430, 334	11, 259 338, 251 570, 630 1, 327, 735 1, 863, 339	7,193 77,441 83,430 57,630 290,705	120,160 12,550,684 2,082,131 1,167,501 17,604,661	1,155 28,321 141,841	323 37,291 11,899 17,878 104,977	1,044 67,513	17,992 559,456 242,853 501,401 3,213,801	195,363 15,391,520 3,521,689 3,995,918 28,559,474	68,010 2,763,395 1,356,128 2,770,787 10,664,108
61 62 63 64	90, 911, 790 9, 276, 133 4, 382, 881 22, 483, 541	43,775,408 11,069,379 2,211,875 28,772,496	997,937 493,691 123,798 1,944,434	473,213 576,615 470,248 2,160,169	6,743,806 1,765,007 328,026 2,226,353	3,028,118 121,196 16,996 175,367	28,739,165 6,664,574 506,291 12,413,348	38,690 182,194 39,078 538,353	24,610	21,216 85,346 18,083 88,950	3,380,603 1,013,079 684,745 9,139,964	48,859,610 12,111,418 2,165,990 37,343,083	17,092,327 5,325,648 1,642,703 24,754,368
65	1,853,306	2,817,336	100,394	274,037	426,874	10,523	1,552,351	39,193	1	1	405, 653	3,218,760	1,655,886

## TABLE II.—DETAIL STATEMENT FOR THE

=					PE	RSONS	ENGA	ED IN IN	DUSTR	у.			15,	EARNE OR NEA				
	INDUSTRY.	Num- ber of		Pro-	Sala- ried	Cle	rks.		Wε	ge earne	rs.			16 an	d over.	Und	er 16.	Pri- mary
		estab- lish- ments	Total.	prie- tors and firm	offi- cers, supts.		Fe-	Aver-		Num	ber.		Total.		177-		77-	horse- power.
				mem- bers.	and man- agers.	Male.	male	age num- ber.		ximum onth.		nimum onth.		Male.	Fe- male.	Male.	Fe- male.	
1	Photographic apparatus and materials.	42	5,186	23	127	628	320	4,088	Ју	4, 288	Fe	3,708	4,275	3,106	1,131	35	3	6,782
2 3 4 5	Photo-engraving. Pipes, tobacco. Pottery, terra-cotta, and fire-clay products. Printing and publishing.	66 30 39	1,809 1,871 2,628	42 40 19	102 33 102	221 95 101	49 40 39	1,395 1,663 2,367	De Oc De	1,459 1,736 2,547	Ja Au Ja	1,316 1,607 2,105	1,457 1,664 2,613	1,415 1,429 2,133	23 222 425	19 4 51	9 4	470 803 4,039
6	Pumps, not including steam pumps. Rubber goods, not elsewhere speci-	22	94,893 486	3,732	4,052 28	16,007 22	7,982 11	63,120	De De	66, 147 455	Jy Mh	61,199 384	66,390 456	51,021	14,722 2	507	140	53, 973 719
7 8	l fied	53 33	2,518 1,686	43 20	111 59	211 72	87 10	2,066 1,525	De Au	2,222 1,677	Му Ја	1,856 1,274	2,319 1,507	1,710 1,356	594 151	5	10	6, 898 9, 923
9 10	Salt Saws Scales and balances	1 1	456 582	13 10	15 19	34 68	15 32	379 453	Mh No	451 508	My Ja	328 374	341 507	305 502	36 2	3		1,058 585
11 12	Screws, machine. Sewing machines, cases, and attach- ments.	13	120 170	7	5 15	25 25	3 9	105 114	De <sup>1</sup> De	129 178	Ja Mh	S1 90	129 179	126 179	2	1		190 120
13 14	Shipbuilding, including boat build- ing. Shoddy Show cases.	255 14	6, 230 255	262	119	183 5	22	5,644 223	My De 1	6,437 255	Fe Ja 1	4,868 189	5,878 255	5,868	4	6		13,835
15 16	Show cases	21 67	495 1,035	26 64	23 63	22 62	9 35	415	.De	441	Fe	384	441	213 432	42 7	1	1	1,982 516
17 18	Silk and silk goods, including throw- sters. Silverware and plated ware.	170	14, 136	140	274	587	232	811 12,903	No Mh	844 13,616	Ja Jy	748 11,726	13,231	734 4,641	133 8, 255	9 78	257	389 11,110
19 20	Slaughtering and meat packing Smelting and refining, not from the ore.	53 238 15	3,678 7,583 407	262 21	97 155 14	351 846 76	120 210 12	3,065 6,110 284	No De De	3,663 6,313 295	Jy Au Ja	2,625 5,893 260	3,373 6,260 293	2,795 6,082 293	556 172	17 4	5 2	2,819 13,936 1,595
21 22	Soap Stationery goods, not elsewhere specified.	67 55	3, 924 1, 815	50 51	157 64	482 294	259 163	2,976 1,243	No Ap	$3,083 \\ 1,278$	Je Ja	2,842 1,166	3,075 1,248	2,393 884	680 348	2 7	9	5,873 1,307
23 24 25	Steam packing Stereotyping and electrotyping Stoves and furnaces, including gas and oil stoves.	36 47 58	1, 295 1, 182 4, 957	21 40 22	49 60 169	282 145 407	$\frac{42}{32}$ 112	901 905 4,247	De De No	1,050 927 4,604	Jy Au Ja	811 884 2,930	1,051 927 4,413	948 918 4,396	100 3 10	3 6 7		1,804 1,414 6,273
26	Surgical appliances and artificial limbs.	72	708	67	42	88	47	464	De	479	Ja	450	455	243	185	5	22	240
27 28 29	Tobacco manufactures. Toys and games. Type founding and printing materials.	3,371 67 27	36, 197 1, 406 281	3, 699 65 23	568 52 21	1,518 57 25	393 35 10	30,019 1,197 202	De No Jy	$31,850 \\ 1,472 \\ 223$	Fe Ja Ja	28,882 913 176	32,730 1,330 209	15,881 736 183	16,564 564 26	$^{147}_{23}$	138 7	2,657 451 231
30 31	Typewriters and supplies Umbrellas and capes	43 142	5,160 2,353	22 179	138	343	119	4,538	Ap	4,967	Au	3,111	4,751	4,082	662	7		2,757
32 33 34	Umbrellas and canes. Vinegar and cider. Wall paper Wall plaster.	277 13 31	913 1,889 1,550	304 2 9	51 41 43 67	145 31 206 110	59 8 36 27	1,919 529 1,602 1,337	No No No My	2,116 1,457 1,873 1,436	Ja Mh Au Ja	1,749 248 915 1,193	2,051 1,188 1,910 1,365	1,118 1,017 1,652 1,347	925 162 245 18	8 9 7	6	507 5,719 1,596 7,356
35 36 37 38	Whips. Window shades and fixtures. Wire Wire Wirework, including wire rope and cable.	8 75 7 106	190 1,172 1,521 1,988	8 74 1 94	4 42 21 89	11 106 53 115	5 39 7 41	162 911 1,439 1,649	Mh My De No	190 948 1,593 1,753	De Se Ja Ja	81 858 1,320 1,511	181 986 1,594 1,744	110 789 1,447 1,564	71 197 140 166	5 14	2	254 1,555 5,455 2,402
39	Wood distillation, not including tur- pentine and rosin.	29	668	10	40	17	8	593	Fe	651	Αu	501	646	646				599
40 41	Wood, turned and carved. Woolen, worsted, and felt goods, and wool hats.	159 64	1,594 9,907	194 66	45 154	55 185	21 42	1,279 9,460	No Je	1,452 9,950	Au Ja	1,197 8,771	1,389 9,596	1,257 5,333	129 4,068	3 85	110	3,223 22,374
42	All other industries 2				1,219	3, 501	775	33,876	<b></b>									89,615
Art Aw Ax Bal Bel Bel Bor Car Car	1 Same number reported for one or m 2 All other industries embrace— ists' materials. nings, tents, and sails. le grease. ling powders and yeast. tt sugar. ting and hose, woven and rubber. liard tables and materials. le, earbon, and lamp black. tter, reworking. d cutting and designing. riages and sleds, children's. street-railroad, not including oper siltoad companies. h registers and calculating machines.		13   6   6   6   6   6   6   6   6   6	Charcos China d Clothin Clothin Coke Drug gi Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Engrav Eng	rinding ing an ing, w ves ng ext y supp	d diesi ood racts otured	nking	es.			9 8 98 2 9 83 28 3 107 5	Graphii Grease: Hairclo Hammo Horsest Iron an made Iron an Iron an Iron an	ce and grand tallooth.  cks  chand whe loes, not in disteel, be disteel, disteel, disteel, disteel, miling wire gimills	tstones nade in olts, nut vorks or oors and rgings	steel wo ts, wash rolling I shutte	orks or ners, an mills	rolling i	1 43 43 2 2 2 mills. 2 s, not 10 11 22 ught,

STATE, BY INDUSTRIES: 1909-Continued.

Ī						EXPENS	ES.						
	Capital.		7	Services.		Mate	erials.		Miscel	laneous.		Value of	Value added by
		Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other,	products.	manu- facture.
1	\$15,410,350	\$10,921,660	\$345,959	\$749,890	\$2,435,327	\$113,172	\$4,853,532	\$35,347	\$42,511	\$2,772	\$2,343,150	\$18,763,929	\$13,797,225
2 3 4	1,034,557 2,207,358 5,342,721	2,616,232 2,602,579 2,946,384	240, 945 49, 758 219, 819	185, 137 127, 375 139, 390	1,350,663 757,485 1,295,514	50,023 22,934 271,101	504, 943 1, 409, 348 603, 571	90, 326 32, 127 22, 997	1,876 342 32,653	18, 252 1, 020 5, 722	174, 067 202, 190 355, 617	2,908,409 3,212,262 3,403,496	2, 353, 443 1, 779, 980 2, 528, 824
5	158, 366, 653	188, 269, 238	11,505,535	21,745,628	43,559,305	1,936,855	54,557,405	4, 122, 786	517, 924	16, 969, 882	33, 353, 918	216, 946, 482	160, 452, 222
6 7	1,089,209 7,329,973	679,007 8,044,837	50,174 403,867	26,957 316,540	227,945 1,058,398	11,260 115,414	$284, 251 \ 5,543, 196$	3,207 $40,421$	4, 206 21, 271	2,040 15,448	68, 967 530, 282	817,090 8,783,693	521,579 $3,125,083$
8 9 10	14,552,287 960,712 1,347,777	2,467,250 866,805 936,838	143,440 49,878 85,090	85,214 32,385 67,403	765,132 208,605 283,592	416, 178 18, 259 16, 592	779, 013 436, 273 403, 510	17,487 19,978	35, 157 5, 526 8, 601	52,716 1,600 5,120	190, 400 96, 792 46, 952	2,896,826 973,641 1,179,584	1,701,635 519,109 759,482
11 12	206, 358 552, 440	140, 403 210, 955	7,366 24,317	4,877 15,395	52,520 80,407	4,572 3,351	52, 888 54, 530	2,790 9,488	1,417 170	271	13,973 23,026	176, 765 237, 480	119,305 179,599
13	14,084,162	9, 733, 787	304,759	238,171	3,779,531	166,035	3,758,631	138,697	71,868	89,907	1,186,188	11,417,189	7,492,523
14 15	965, 363 509, 320	806, 326 764, 281	27,919 51,860	5,346 23,004	106,293 231,583	17, 178 12, 761	606, 808 393, 656	3, 240 24, 155	3,596 1,362	75	35,946 25,825	869, 364 900, 043	245,378 493,626
16 17	946, 286 20, 972, 116	1,567,951 23,853,493	117, 135 709, 385	76, 191 783, 908	496,579 5,385,355	17,330 249,977	642,746 13,698,612	67,783 $325,414$	1,427 48,145	5,251 1,269,206	143,509 1,383,491	1,772,415 26,518,821	1, 112, 339 12, 570, 232
18 19 20	7,487,830 34,535,822 3,257,285	7, 018, 015 120, 932, 634 8, 688, 545	291, 366 547, 403 32, 375	373,682 1,142,417 97,911	1,899,252 4,387,005 191,242	72, 180 507, 208 45, 643	3,516,679 109,661,026 8,220,916	70, 978 239, 879 16, 906	16,358 243,327 4,447	9,278 23,575	768, 242 4, 180, 794 79, 105	7,859,346 127,130,051 9,017,639	4, 270, 487 16, 961, 817 751, 080
21 22	16, 708, 332 2, 762, 337	20, 156, 635 3, 409, 348	295, 507 152, 116	533,777 337,585	1,435,571 635,580	290, 146 21, 851	15,322,236 1,587,987	116, 323 56, 049	62,814 8,408	6, 825 52, 306	2,093,436 557,466	23, 582, 977 3, 344, 380	7, 970, 595 1, 734, 542
23 24 25	3,774,644 1,209,210 11,479,464	3,542,495 2,038,390 8,387,503	180,852 148,855 430,540	308, 811 163, 789 474, 350	463,733 851,946 2,746,399	53, 964 74, 202 215, 999	1,916,582 551,940 3,326,402	17, 264 96, 863 86, 627	11,273 1,436 56,445	104 8,342 11,245	589,912 141,017 1,039,496	3, 783, 236 2, 227, 987 8, 973, 730	1,812,690 1,601,845 5,431,329
<b>2</b> 6	969, 101	1,248,002	90,660	97,636	276,472	15,087	492,105	52, 163	1,508	4,407	217,964	1,490,235	983,043
27 28 29	41,862,854 1,310,500 576,657	65,786,577 1,637,005 697,500	1,220,156 74,302 54,516	1,988,426 63,607 31,112	13,666,141 457,428 139,818	189,919 18,732 10,560	31,151,487 827,964 373,179	942,327 64,144 31,611	9,025,649 2,455 1,661	19,683 10,783 986	7,582,789 117,590 54,057	76,661,552 1,849,225 822,752	45, 320, 146 1, 002, 529 439, 013
30	12,486,596	7,105,884	404,749	397,175	3,020,484	77,493	1,803,042	35,886	32,050	1,000	1,334,005	10, 298, 038	8,417,503
31 32 33 34	2, 239, 978 5, 035, 742 5, 220, 889 5, 790, 576	5,723,503 1,945,284 4,622,083 4,002,294	103,757 55,325 146,990 205,246	144,591 24,947 266,976 146,678	907, 206 234, 192 806, 369 774, 924	37, 636 33, 856 55, 314 169, 578	4,093,574 1,446,256 2,418,994 2,255,351	149, 167 13, 148 50, 276 13, 469	1,540 12,746 21,793 27,876	14,575 585 31,344 31,376	271, 457 124, 229 824, 027 377, 796	6, 426, 667 2, 246, 322 5, 276, 870 4, 493, 963	2, 295, 457 766, 210 2, 802, 562 2, 069, 034
35 36 37 38	246, 363 3, 340, 914 5, 477, 199 3, 759, 420	320,069 5,034,670 9,321,121 5,346,652	5,800 114,408 155,552 209,771	8,200 123,043 62,469 129, <del>0</del> 71	69,485 435,193 758,079 843,251	3,663 35,419 185,851 75,198	156,747 3,910,864 7,637,667 3,710,246	5,520 60,820 14,818 70,814	1,090 11,031 18,028 11,651	72	69,564 343,820 488,657 282,352	341,287 5,475,752 10,065,431 5,875,153	180, 877 1,529, 469 2,241, 913 2,089, 709
39	3,298,055	3, 143, 341	65,340	14,162	262,095	604, 464	1,914,057	75	14, 362		268,786	3,401,722	883, 201
40 41	1,612,183 25,207,821	1,978,760 21,379,217	58, 249 468, 652	69,666 349,907	728,547 4,144,918	46,781 370,969	871,805 14,373,059	65,042 31,722	2,872 79,289	3, 214 170, 876	132,584 1,389,825	2,421,621 23,739,421	1,503,035 8,995,393
42	194,761,252	279, 923, 145	3,512,379	4,132,024	19,179,919	5,533,122	223,807,991	975,516	8,796,488	165,575	13,820,131	298,514,230	69, 173, 117
La Lic Lo Ma Mi Mi Oa Oil Pa Pe	2 All other industries embrace—Continued.  Iron and steel pipe, wrought 1 Labeis and tags 25 Liquors, distilled 3 Liquors, distilled 4 Locomotives, not made by railroad companies 2 Matches 25 Mats and matting 4 Mineral and soda waters 54 Mucilage and paste 21 Oakum 1 Oa												

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES,

#### ALBANY.

CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES.

					PERS	ons en	AGED	IN INDUS	TRY.			WAGE OR NEA	EARNER REST RI	S-NUM	BER D	EC. 15 EDAY.	
	INDUSTRY.	Num- ber of estab-		Pro- prie-	Sala- ried offi- cers,	Cle	ks.		Wage ea verage ni				16 an	d over.	Und	er 16.	Pri- mary
		lish- ments	Total.	tors and firm mem-	super- intend- ents, and	Male.	Fe- male.	Total.	16 and	over.	Un- der	Total.	Male.	Fe-	Male.	Fe-	horse- power.
				bers.	man- agers.		maie.		Male.	Fe- male.	16.		maic.	male.	maie.	male.	
1	All industries	395	11,607	410	368	755	213	9,861	6, 962	2, 832	67	10, 413	7,378	2,966	42	27	15,629
2 3 4 5 6	Boxes, fancy and paper. Brass and bronze products. Bread and other bakery products. Brick and tile. Carriages and wagons and materials.	3 6 69 4 4	63 55 451 99 65	5 5 76 5 10	2 4 5 1 6	, 1 5 51 2	1 30 1 1	54 41 289 90 48	16 39 215 90 48	38 65	2 9	58 43 298 141 46	17 41 222 141 46	67	 2 8 	1	15 59 143 365 63
7 8 9 10 11	Clothing, men's, including shirts Coffee and spice, roasting and grinding Confectionery. Cutlery and tools, not elsewhere specified Foundry and machine-shop products	13 5 6 3 18	1,075 43 123 29 745	24 11 6 6 19	17 2 33	28 9 1 1 45	15 1 1 12	991 22 116 19 636	102 19 54 18 607	875 3 58 1 29	14	1,037 23 128 20 734	107 20 60 19 700	916 3 64 1 34	1	13 3	256 170 140 20 809
12	Hats and caps, other than felt, straw, and wool.	3	29	5		2	1	21	16	5		22	17	5			3
13 14 15 16	Liquors, malt. Lumber and timber products. Marble and stone work. Patent medicines and compounds and druggists' preparations.	8 9 8	431 185 47 28	12 14 9	49 8 3	76 4 2	1 2	306 160 33 12	306 159 33 6	1		315 147 38 13	315 146 38 7	1 6			2,328 715 68 19
17 18 19 20 21	Photo-engraving. Printing and publishing Slaughtering and meat packing. Tobacco manufactures All other industries 1	3 64 7 52 102	35 2,003 30 322 5,749	51 8 56 88	7 59 59 167	180 2 16 328	78	26 1,635 20 245 5,097	25 1,149 20 192 3,848	463 49 1, 239	1 23 4 10	30 1,654 19 251 5,396	29 1,163 19 197 4,074	468 50 1,310	1 18 4 7	5	8 1,324 91 60 8,973

<sup>&</sup>lt;sup>1</sup> All other industries embrace: Artificial stone, 1; awnings, tents, and sails, 2; axle grease, 1; bags, paper, 1; baking powders and yeast, 2; baskets, and rattan and willow ware, 1; belting and hose, leather, 1; billiard tables and materials, 1; blacking and cleansing and polishing preparations, 2; bluing, 1; boots and shoes, including out stock and findings, 3; boxes, cigar, 1; brushes, 1; cars and general shop construction and repairs by steam-railroad companies, 2; cars and general shop construction and repairs by street-railroad companies, 2; cars and general shop construction and repairs by street-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by street-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by stered-railroad companies, 2; cars and general shop construction and repairs by

#### BUFFALO.

_	1		,														
1	All industries	1, 753	61, 246	1,489	1,889	4, 505	1,951	51, 412	43,385	7, 445	582	56, 223	47, 508	8, 079	412	224	121, 791
2 3 4	Automobiles, including bodies and parts Bicycles, motor cycles, and parts Blacking and cleansing and polishing preparations.	23 7 11	3,640 181 287	13 4 4	68 10 15	430 10 54	85 7 78	3,044 150 136	2,941 146 51	100 1 81	3 3 4	3,570 183 134	3,448 178 50	117 1 80	5 4 4		4, 561 151 209
5	Boots and shoes, including cut stock and findings.	14	722	14	8	37	10	653	343	228	82	690	362	241	56	31	370
6	Brass and bronze products	18	414	12	21	24	10	347	339	4	4	501	489	6	6		2,417
7 8 9 10 11	Bread and other bakery products	189 5 8 48 7	1,794 178 73 504 3,474	180 5 9 48	27 4 3 7 133	172 4 14 10 148	60 2 5 10 3	1,355 163 42 429 3,190	1,025 163 33 382 3,181	329 7 47 6	1 2 3	1,365 103 46 449 3,456	1,032 103 36 400 3,445	331 8 49 8	2 2 3		1, 191 265 100 551 2, 768
12 13 14 15	Clothing, men's, including shirts. Clothing, women's. Confectionery. Cooperage and wooden goods, not elsewhere specified.	60 14 26 13	1,681 655 633 194	70 12 22 12	34 16 14 7	105 43 62	42 28 30 3	1, 430 556 505 172	442 95 181 168	962 455 317	26 6 7 4	1,585 567 577 178	490 97 207 174	1,067 464 362	6 1 4	22 5 8	365 61 604 206
16	Copper, tin, and sheet-iron products	67	1,882	68	47	144	71	1,552	1,404	132	16	1,243	1,125	105	11	2	1,955
17 18	Cutlery and tools, not elsewhere specified Electrical machinery, apparatus, and supplies.	11 8	273 347	6 4	17 18	13 31	6 12	231 282	223 268	7 13	1	239 320	231 304	7 15	1		359 654
19 20 21	Flour-mill and gristmill products Foundry and machine-shop products Fur goods	10 149 12	793 10,018 122	1 94 11	40 264 3	231 568 9	45 224 11	476 8,868 88	457 8,788 32	18 62 53	1 18 3	465 10, 185 130	447 10,095 47	17 73 79	1 17 2	2	10,987 11,690
22 23 24 25 26	Furniture and refrigerators. Gloves and mittens, leather. Instruments, professional and scientific. Jewelry Jewelry and instrument cases.		2,347 98 130 401 458	25 10 6 22 6	60 2 6 6 17	147 5 4 31 12	63 5 4 44 7	2,052 76 110 298 416	1,919 35 82 244 92	74 38 21 45 317	59 3 7 9	2, 246 83 99 297 445	2,099 38 74 243 99	81 42 19 45 339	63 5 5	3 3 1 4 6	2,846 12 34 116 109
	Leather goods. Leather, tanned, curried, and finished Liquors, malt Lumber and timber products. Malt.	22 4 16 32 16	609 579 828 2,202 362	27 7 25 8	24 8 62 84 24	32 42 93 93 35	17 9 50 7	509 513 673 1,950 288	396 453 670 1,925 288	102 50 3 6	11 10	523 581 677 2,087 337	407 513 674 2,059 337	105 57 3 6	9 11 22	2	460 1,297 4,888 6,713 3,862
32 33 34 35	Marble and stone work. Mattresses and spring beds. Mirrors. Models and patterns, not including paper patterns.	17 8 5 9	410 230 113 80	15 4 1 6	11 8 2 4	12 15 2 3	8 13 3	364 190 105 67	298 155 104 66	66 34	1 1	396 185 109 80	324 151 108 79	72 33	1 1		427 137 125 76
36	Paper goods, not elsewhere specified	4	140	2	10	8	12	108	62	45	1	117	67	49	1		98

AND TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909.

# CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES.

#### ALBANY.

											ii		
						EXPENSI	es.						
				Services.		Mate	erials.		Miscell	aneous.		Value of products.	Value added by manu-
	Capital.	Total.	Officials.	\$855,663 \$725,354 \$		Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	producto	facture.
1	\$26,276,429	\$20,668,578	\$855,663	\$725,354	\$5,234,431	\$471,845	\$10,049,005	\$134,950	\$634,970	\$121,382	\$2,440,978	\$22,825,702	\$12,304,852
2 3 4 5	38, 546 113, 726 842, 646 179, 562 203, 217	77,030 134,228 1,075,103 85,193 87,234	3,300 5,900 12,525 1,500 10,956	1,560 3,530 39,799 1,612 624	22,018 30,679 169,383 38,982 36,716	665 1,935 22,770 18,996 2,729	36,470 85,994 711,783 2,167 28,969	3,375 2,400 14,993 600	379 396 4,761 667 1,797		9, 263 3, 394 99, 089 20, 669 5, 443	88, 310 142, 950 1, 209, 869 142, 800 92, 489	51, 175 55, 021 475, 316 121, 637 60, 791
7 8 9 10	604,114 154,635 165,710 20,250 2,922,965	643,759 253,999 199,931 31,971 1,223,560	17,398 	20, 376 8, 400 2, 000 800 47, 173	330, 818 11, 377 34, 851 11, 546 395, 582	5, 158 3, 332 3, 212 1, 021 26, 036	227, 453 217, 761 136, 476 9, 447 533, 094	8,161 1,200 900 810 8,320	3,377 1,217 967 51 9,147	3,400 5,000 3,210 624	27,618 10,712 16,525 2,696 140,325	668, 080 288, 066 245, 774 47, 002 1,353, 723	435, 469 66, 973 106, 086 36, 534 794, 593
12	28,600	45,576		2,016	14,392	314	26, 267	594			1,993	62,500	35, 919
13 14 15 16	4,203,388 337,505 52,138 48,121	2,668,514 414,975 62,907 51,033	272,500 10,829 2,560	91, 314 4, 188 1, 836	291, 593 82, 430 23, 231 5, 139	52, 156 2, 233 2, 192 618	600,724 293,959 29,986 26,483	3,050 1,142 863	447, 121 2, 192 174 136	1,121 2,000 650	913,106 14,973 4,182 12,748	3,056,444 468,226 86,169 68,887	2, 403, 564 172, 034 53, 991 41, 786
17 18 19 20 21	26, 871 3, 119, 269 57, 718 443, 979 12, 713, 469	49, 641 2, 926, 369 234, 255 590, 757 9, 812, 543	11,290 140,662 17,750 282,844	895 165, 968 1, 000 10, 964 321, 299	21,485 957,015 12,674 124,443 2,620,077	564 37, 666 2, 203 2, 315 285, 730	11,782 1,236,162 208,711 277,488 5,347,829	1,069 24,447 1,920 7,004 54,102	25 8,530 675 89,909 63,449	78,385 216 26,776	2,531 277,534 7,072 60,668 810,437	50, 072 3, 248, 642 265, 927 677, 435 10, 562, 337	1,974,814 55,013 397,632

ornamenting, 2; hand stamps and stencils and brands, 2; hosiery and knit goods, 2; ice, manufactured, 1; ink, writing, 1; jewelry, 2; jewelry and instrument cases, 1; lasts, 1; mattresses and spring beds, 2; mineral and soda waters, 11; models and patterns, not including paper patterns, 2; mucilage and paste, 1; musical instruments, pianos and organs and materials, 1; oil, not elsewhere specified, 2; optical goods, not elsewhere specified, 3; phonographs and graphophones, 1; photographic apparatus and materials, 1; other, terra-cotta, and fire-clay products, 2; saws, 1; soap, 1; stereotyping and electrotyping, 1; stoves and furnaces, including gas and oil stoves, 3; surgical appliances and artificial limbs, 1; toys and games, 1; window shades and fixtures, 1; wirework, including wire rope and cable, 1; wood, turned and carved, 2; wool pulling, 2.

#### BUFFALO.

				\$4,736,659	\$28,727,228	\$4,822,019	\$131,716,222	\$915, 176	\$1,728,571	\$959, 620	\$16, 803, 521	\$218,803,994	\$82, 265, 753
1 2 3	\$193, 041, 267 9, 300, 037 338, 611	\$195,019,696 8,180,955 329,022 831,229	\$4,610,680 150,259 24,629 26,392	132, 797 6, 718 96, 663	2,199,567 105,435 66,554	62,701 3,324 3,889	4, 532, 954 145, 666 407, 250	$21,339 \\ 6,053 \\ 2,617$	14,336 983 2,393	2, 025 2, 000	1,067,002 34,189 223,471	9,597,763 390,357 963,586	5,002,108 241,367 552,447
4 5	942, 202 909, 755	1,221,171	11, 135	44, 129	267, 136	8,826	826,042	8,446	2,243		53, 214	1,355,821	520,953
6	1,046,691	1,519,307	40,605	31,052	210,942	31, 102	1, 109, 973	6,492	1,813	15,567	71,761	1,790,549	649, 474
7 8 9 10 11	4,368,514 402,488 97,607 982,948 2,390,773	4,750,168 146,630 178,510 906,128 4,528,648	65, 792 7, 480 1, 900 27, 722 109, 260	184,867 4,007 10,970 16,010 109,319	724, 886 88, 429 17, 115 246, 800 1, 938, 340	81,223 22,162 2,313 8,817 71,814	3,253,930 2,903 139,904 547,793 2,205,144	45,355 4,125 1,770 8,354	19,795 5,832 720 4,120 17,471	2, 295	374, 315 11, 692 3, 818 44, 217 77, 300	5,544,300 165,221 204,284 1,196,020 4,524,448	2, 209, 147 140, 156 62, 067 639, 410 2, 247, 490
12 13 14 15	2,308,628 448,391 614,336 305,536	3,043,137 902,730 1,108,994 556,199	62, 701 22, 864 26, 927 9, 970	119,234 39,802 65,595 1,612	600,778 181,899 160,073 94,126	15,080	1,781,748 561,704 723,734 425,345	39, 286 13, 189 24, 109 2, 800	2,567 1,004 1,440	306, 916 25, 030	114,889 79,922 67,442 18,173	3,698,623 1,014,059 1,179,919 608,941	1,901,857 449,005 441,105 180,863
16	4, 127, 151	3,667,285	120,589	167,063	852,647	44,983	2,227,056	24,663	17,642	2,365	210,277	4, 122, 813	1,850,774
17 18	503,455 1,174,857	356, 282 628, 171	30,360 47,992	16,258 36,983	128, 454 141, 327	8,632 14,413	132,658 321,436	3,306 3,170	1, 994 3, 419	2,941 25	31,679 59,406	452, 283 661, 287	310,993 325,438
19 20 21	5,313,092 20,326,291 213,726	19, 032, 135 18, 378, 417 294, 755	113,812 662,264 6,080	205, 494 680, 795 10, 701	5, 143, 940	86,249 393,055 604	8,418,388	880 95,061 9,465	59, 228	140, ?02 173, 217	757, 603 2, 752, 469 15, 418	19,941,592 20,775,474 350,321	2, 471, 983 11, 964, 031 158, 209
22 23 24 25 26	4,083,497 108,348 178,023 1,307,483	3, 808, 360 130, 689 129, 147 735, 777 347, 755	152,088 4,450 18,917 14,800 32,140	84,259	34, 741 53, 605 173, 650	1,633 1,094 3,443	71, 262 28, 372 381, 812	33, 227 4, 400 3, 558 9, 774 9, 668	100 52 357	1,600 1,822 67	4,118 15,576 67,682	4, 184, 964 147, 620 151, 243 979, 250 392, 530	2,029,061 74,725 121,777 593,995 261,648
27 28 29 30 31	937,585 3,058,110 12,783,514 5,051,255	964, 309 2, 658, 582 5, 365, 407 5, 074, 691	34,664 35,085 299,470 140,214	61,470 49,980 113,059 95,981	262, 166 246, 027 536, 338 1, 105, 938	101,884	2, 174, 658 1, 378, 828 3, 283, 167	12,935	6,377 $1,003,659$ $20,921$	600	71, 733 107, 159 1, 932, 169 373, 079 280, 743	1, 129, 321 2, 808, 993 6, 496, 549 5, 580, 018 7, 094, 746	1, 437, 952
32 33 34 35	1	821, 568 437, 165 283, 625	23,454 11,770 1,300	12,627 13,962 3,564	242, 887 91, 147 69, 300	)   1,78	$\begin{bmatrix} 5 & 273,339 \\ 9 & 198,681 \end{bmatrix}$	$ \begin{array}{c c} 10,914 \\ 5,206 \end{array} $	1 776 0 294	500	32,452	554, 814 330, 991 122, 939	278, 670 130, 521 110, 792
36	1	11				2, 16	0 147, 313	5,80	0 11		20,615	294,810	145,343

75140°—13——50

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

					BUFI	FAL	<b>9</b> —Co	ntinued.									
					PERSO	ONS EN	GAGED	IN INDU	STRY.			WAGE OR NE.	EARNER AREST RI	S-NUM EPRESEN	BER D	EC. 15, E DAY.	
	industry.	Num- ber of estab-		Pro- prie-	Sala- ried offi- cers,	Cle	rks.	(8	Wage e average n				16 an	d over.	Und	er 16.	Pri- mary
		lish- ments	Total.	tors and firm mem- bers.	super- intend- ents, and man-	Male.	Fe- male.	Total.	16 and	1	Un- der	Total.	Male.	Fe- male.	Male.	Fe-	horse- power.
37	Patent medicines and compounds and	61	580	40	agers.				Male.	Fe- male.	16.			maie.		male.	
38 39 40 41	Photo-engraving Printing and publishing Slaughtering and meat packing	6 164 39	137 3,994 1,929	48 6 133 35 2	7 168 31	56 22 390 141	6 214 60	96 3,089 1,662	81 89 2,459 1,602	146 584 58	3 7 46 2	102 3,159 1,694	76 95 2,514	136 	3 7 44	5	362 153 3,588
42 43 44	Soap	8 3 188	1,592 58 764 47	2 3 210	64 1 13	121 4 20	45 3 5	1,360 47 516	982 43 447	378 57	4 12	1, 694 1, 413 47 563	1,633 1,020 43 488	59 393 62	2 4 13		3,743 2,489 112
45	All other industries 1	377	15, 293	298	472	1, 102	429	12,992	10, 199	2,598	195	31	31 11,576	2,951	94	130	21 220 50, 433

All other industries embrace: Agricultural implements, 2; artificial flowers and feathers and plumes, 2; artificial stone, 5; awnings, tents, and sails, 6; axle grease, 3; babbitt metal and solder, 1; bags, other than paper, 1; baking powders and yeast, 4; baskets, and rattan and willow ware, 8; betting and hose, leather, 2; belting and hose, woven and rubber, 3; billiard tables and materials, 1; bluing, 3; boxes, cigar, 4; boxes, fancy and paper, 11; brooms, 7; brushes, 2; butter, cheese, and condensed milk, 1; buttons, 2; carretas, reg, 7; carriages and sleds, children's, 1; cars and general shop construction and repairs by street-railroad companies, 1; cars, steam-railroad, roasting and grinding, 8; coffins, burial cases, and undertakers' goods, 2; corsets, 4; cotton goods, including cotton small wares, 1; dairymen's, poulterers', and aplarists 5; engraving, wood, 2; fancy articles, not elsewhere specified, 3; fertilizers, 3; fire extinguishers, chemical, 3; flags, banners, regalia, society badges, and emblems, 2; flavoring extracts, 9; flood preparations, 12; cloundry supplies, 1; furnishing goods, men's, 2; furs, dressed, 1; glavanizing, 1; gass, ociety badges, and emblems, 2; flavoring caps, other than felt, straw, and wool, 4; hats, straw, 1; hosiery and knit goods, 1; house-furnishing goods, not elsewhere specified, 4; ice, manufactured, 3; ink, printing, 3; NEW VORK CLTV

-			,	14	E W	YOR	E HE (	Y THE	•							, -	
1		25, 93	680, 510	29, 055	16, 838	58,732	21,88	3 554, 002	366, 411	183, 86	3 730	587, 745	200 04	7 105 10	71.005	10.000	<b>I</b>
2 3 4 5 6	Automobiles, including bodies and parts. Bags, paper	24	9,759 266 2,326 441 462	411 13 31 9 26	144 12 117 13 17	621 13 156 42 14	134 1 43 10 4	8,449 227 1,979 367 401	1, 129 224 1, 969 186	7,128 2 8 181	192 1 2	8, 981 287 2, 338 380	1,200 284 2,326 193	10 187	16 1 2	188	201 222 1,460 200
7 8 9	Belting and hose, leather Bicycles, motorcycles, and parts Blacking and cleansing and polishing preparations.	18 5 60	451 33 677	15 7 46	21 55	91 2 125	26 	298 24 406	315 282 24 179	85 15 226	1 1	337 24 432	325 319 24 191	88 17 240	1		129 892 15
10 11	Bluing.  Boots and shoes, including cut stock and findings.		9,177	3 194	2 183	5 369	231	8,200	5, 900	10 2,212	2 88	18 8, 725	6,277	12 2,354	47	2 47	236 10 2,559
12 13 14 15 16	Boxes, cigar. Boxes, fancy and paper Brass and bronze products. Bread and other bakery products. Brooms.	31 211 163 2,378 13	1,396 8,018 4,197 20,401 139	32 244 157 2,511 13	25 176 147 213 3	75 272 254 1,181	8 116 75 975 6	1,256 7,210 3,564 15,521	661 2,754 3,244 13,476	545 4,335 314 1,996	50 121 6 49	1,390 7,899 4,051 16,014 115	732 3,017 3,687 13,904	603 4,749 357 2,059	15 26 7 45	40 107	913 1,696 3,054 6,642
17 18 19 20 21	Brushes. Buttons Canning and preserving. Carpets and rugs, other than rag. Carpets, rag.	81 147 73 5 10	1,470 3,635 1,340 256 65	93 203 73 7 10	37 62 44 6 2	105 151 155 15 4	32 47 34 13 2	1,203 3,172 1,034 215 47	693 1,944 598 107 42	458 1,150 420 107	52 78 16 1	1,308 3,357 1,085 225 55	754 2,057 627 112 49	3 498 1,217 440 112 3	43 17 10	13 66 8 1	592 1,024 1,189 196
22 23 24	Carriages and wagons and materials Cars and general shop construction and repairs by steam-railroad companies. Cars and general shop construction and	195 3	2,379 1,619	231	59 27	60 71	13 4	2,016 1,517	2,005 1,517	11		1,993 1,695	1,982 1,695	11		1	1,950 1,186
25 26	repairs by street-railroad companies. Chemicals Clocks and watches, including cases and materials.	33 20	1,812 1,576	14 8	89 75 39	121 209 89	4 76 23	3, 471 1, 438 1, 417	3,454 1,300 1,110	17 132 301	6	3,777 1,460	3,758 1,320	19 134	3 7	3	3,207 4,716
27 28 29 30 31	Clothing, men's, including shirts. Clothing, women's. Coffee and spice, roasting and grinding. Coffins, burialcases, and undertakers' goods Confectionery.	2,526 2,995 61 15 127	77,543 110,567 2,080 731 7,641	3,656 4,332 71 14 119	754 1,420 75 33 182	4, 681 7, 284 516 132 607	1,310 3,273 89 23 211	67,142 94,258 1,329 529 6,522	45, 390 41, 127 928 405 2, 678	21,606 52,715 399 124	146 416 2	71,838 98,745 1,354 527	43, 085 945 403	328 23,117 55,224 407 124	45 59	111 377 2	7,399 11,157 3,475 600
32	Cooperage and wooden goods, not elsewhere specified.	39	1,200	42	17	21	9	1,111	1,097	3,699	145	7,480	3,071	4,242	8	159	6,254
33 34 35 36	Copper, tin, and sheet-iron products Cordage and twine and jute and linen goods. Corsets Cotton goods, including cotton small wares.	466 9 39 13	11,399 4,619 2,445 428	437 2 39 14	356 31 32 12	587 131 195 28	175 19 51 6	9,844 4,436 2,128 368	8, 542 1, 880 226 166	1,230 2,515 1,892 198	72 41 10 4	994 10,668 4,441 2,088 388	981 9,257 1,882 222 175	11 1,333 2,518 1,856 209	59 19 1	19 22 9	1,215 6,415 9,485 421
37 38 39	Cutlery and tools, not elsewhere specified.  Dyeing and finishing textiles.  Electrical machinery, apparatus, and supplies.	70 69 160	763 3,198 7,002	73 67 77	28 93 272	46 195 741	30 73 226	586 2,770 5,686	392 1,681 4,824	147 1,083 836	47 6 26	615 2,906 6,241	412 1,764 5,295	154 1,136 917	4 28	49 2 1	377 2,738 6,954
40 41	Electroplating Enameling and japanning	97 11	652 67	119 13	18 1	$\begin{bmatrix} 21 \\ 2 \end{bmatrix}$	14 1	480 50	459 32	17 18	4	508	486	18	4		477
	Engravers' materials Fancy articles, not elsewhere specified Files. Flags, banners, regalia, society badges, and emblems.	8 156 6 50	3,649 129 678	7 172 12 56	8 110 6 14	7 289 4 37	133 2 41	58 2,945 105 530	58 1,901 102 171	993	51 1 13	3,212 120	31 64 2,073 116	1,083	27 1 8	29	48 177 2,413 150
	Food preparations	95	2,320	102	64	291	49	1,814	1,177	615	22	558	180	364	1	6	98
47 48	Foundry and machine-shop products	923 821	29, 200	758	1,176	2,777	475	24,014	23,304	659	51	1,992 25,412	1,293	675	5	19	2,724
50 51	Furnishing goods, men's Furniture and refrigerators Furs, dressed	313 406 49	10,719 8,051 9,878 880	1,264 409 464 64	166 144 297 20	1,073 830 592 40	392 373 111 8	7,824 6,295 8,414 748	5,339	2,468 4,254 231 4	17 51 3	9,353 6,493 8,980 685	24,661 6,382 2,053 8,730 681	697 2,951 4,388 247 4	52 6 12 3	2 14 40	33,453 857 498 6,993 1,137

39,794,305 16,440,236 9,951,309 10,708,222 955,973

63,852,591

39, 874, 386 25, 495, 845 19, 438, 816

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

CHTRES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

BUFFALO—Continued.

						EXPENS	cs.				-		
	Capital.		j	Services.		Mate	erials.		Miscell	aneous.		Value of products.	Value added by manu-
	Capitan	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	producio	facture.
37	\$1,088,881	\$2,062,860	\$88,571	\$107,725	\$90,053	\$7,605	\$353,302	\$15,472	\$5,744	\$374	\$1,394,014	\$2,801,045	\$2,440,138
38 39 40 41	120, 304 6, 649, 413 7, 270, 613 7, 256, 506	160, 508 6, 276, 566 23, 389, 052 7, 067, 717	11,520 363,421 124,442 91,864	19, 183 423, 039 204, 868 122, 692	79, 052 1, 936, 777 963, 210 544, 592	$\begin{array}{c} 1,310 \\ 77,315 \\ 120,821 \\ 106,505 \end{array}$	$\begin{array}{c} 26,291 \\ 2,277,601 \\ 21,667,805 \\ 5,653,565 \end{array}$	3, 444 108, 514 3, 159 350	285 20, 142 24, 314 37, 931	2,000 179,580 4,000	17, 423 890, 177 280, 433 506, 218	189, 051 7, 678, 698 25, 416, 054 8, 652, 900	$\begin{array}{c} 161,450 \\ 5,323,782 \\ 3,627,428 \\ 2,892,830 \end{array}$
42 43 44 45	73,459 600,004 171,807 69,054,793	92,817 1,038,867 95,546 56,799,867	1,820 14,347 8,288 1,450,167	3, 497 19, 176 7, 809 1, 158, 617	32, 195 282, 343 14, 566 6, 937, 368	1,901 $3,977$ $3,062$ $3,223,278$	42,039 546,443 48,957 39,125,143	4,400 18,213 274,613	102, 936 624 262, 448	710 82,333	6, 965 50, 722 12, 240 4, 285, 900	137,673 1,236,596 126,417 62,815,787	93, 733 686, 176 74, 398 20, 467, 366

ink, writing, 1; iron and steel, blast furnaces, 3; iron and steel, steel works and rolling mills, 4; iron and steel, doors and shutters, 1; iron and steel forgings, 5; lasts, 2; lead, bar, pipe, and sheet, 1; liquors, vinous, 1; looking-glass and picture frames, 8; millinery and lace goods, 8; mineral and soda waters, 21; mucilage and paste, 2; musical instruments and materials, not specified, 1; musical instruments, pianos and organs and materials, 5; oil, linseed, 4; oil, not elsewhere specified, 3; optical goods, 5; paint and varnish, 7; pens, steel, 1; petroleum, refining, 1; photographic apparatus and materials, 3; pipes, tobacco, 1; pottery, terra-cotta, and fire-clay products, 2; pumps, not including steam pumps, 1; rubber goods, not elsewhere specified, 4; safes and vaults, 1; saws, 1; scales and balances, 3; screws, machine, 2; sewing machines, cases, and attachments, 1; shipbuilding, including boat building, 11; show cases, 2; signs and advertising novelties, 2; silk and silk goods, including throwsters, 2; smelting and refining, copper, 1; smelting and refining, not from the ore, 1; sporting and atthictic goods, 2; statuary and art goods, 3; steam packing, 3; stoves and furnaces, including gas and oil stoves, 3; sulphuric, nitric, and mixed acids, 3; surgical appliances and artificial limbs, 7; toys and games, 1; type founding and printing materials, 1; type-writers and supplies, 1; umbrellas and canes, 2; vault lights and ventilators, 1; wall paper, 1; whips, 1; wirework, including wire rope and cable, 10; wood distillation, not including turpentine and rosin, 1; wood, turned and carved, 3.

NEW YORK CITY.

1	\$1,364,352,683	\$1,803,961,431	\$46,675,495	\$75,398,230	\$323, 698, 132	\$26,024,774	\$1,066,130,559	\$30,291,011	\$27,938,207	\$60,088,482	\$147,716,541	\$2,029,692,576	\$937, 537, 243
2 3 4 5	7, 903, 251 506, 697 3, 712, 861 945, 286 402, 051	18, 143, 366 415, 514 5, 722, 453 1, 481, 020 840, 860	270, 699 17, 610 317, 665 124, 460 23, 800	752,592 7,632 174,741 55,459 14,636	3, 435, 058 149, 806 1, 584, 739 155, 542 280, 205	43,543 3,394 67,497 7,397 3,833	12, 193, 339 191, 412 2, 568, 152 1, 050, 153 409, 027	452,149 15,129 234,258 28,850 16,043	2, 322 1, 739 8, 681 2, 622 2, 734	180, 135 2, 447 1, 100 360 260	813, 529 26, 345 765, 620 56, 177 90, 322	21, 098, 226 485, 739 6, 194, 354 1, 682, 054 985, 991	8,861,344 290,933 3,558,705 624,504 573,131
7 8 9	2, 396, 180 35, 819 867, 099	2,770,921 54,926 1,781,101	78, 906 96, 905	98,539 1,432 136,230	187, 663 12, 720 177, 355	16, 468 515 15, 409	2,015,512 31,238 980,870	20, 927 3, 900 44, 233	1,062 2,123	300 420	351, 844 4, 821 327, 556	3,670,246 67,855 1,998,058	1, 638, 266 36, 102 1, 001, 779
10 11	19,333 8,808,620	57, 012 16, 740, 227	3,300 394,014	3,860 601,579	6,527 4,463,992	308 97, 504	34,970 9,852,673	2,470 218,409	159 18, 549	62, 360	5,418 1,031,147	70, 314 18, 376, 429	35,036 8,426,252
12 13 14 15 16	930, 242 4, 600, 671 6, 264, 822 25, 796, 438 82, 302	1,746,721 8,424,062 7,734,051 54,839,076 207,224	72, 484 306, 375 292, 164 548, 895 4, 330	66,276 316,450 315,637 1,405,645 5,839	558, 450 2, 848, 716 2, 115, 915 10, 374, 524 52, 255	14,494 96,846 144,128 1,181,979 2,290	901, 332 3, 916, 145 3, 801, 052 36, 774, 943 123, 421	49,651 386,037 154,604 1,642,964 10,901	3, 473 8, 595 25, 036 154, 392 18	47, 197 27, 413 7, 522	80, 561 497, 701 858, 102 2, 748, 212 8, 170	1,842,913 9,450,308 8,754,857 61,904,484 243,466	927, 087 5, 437, 317 4, 809, 677 23, 947, 562 117, 755
17 18 19 20 21	1,705,938 2,469,866 3,427,552 311,900 35,472	2,418,309 4,373,146 4,966,031 282,791 75,289	68,117 134,584 101,807 15,750 2,585	102,312 160,482 164,048 19,375 3,108	556, 448 1, 348, 868 488, 533 89, 108 26, 325	30,809 42,698 46,797 6,821 635	1, 422, 303 2, 309, 159 3, 444, 385 112, 066 28, 153	59, 311 104, 011 71, 566 6, 230 5, 876	5, 480 2, 346 10, 085 7, 350 73	10,259 111,876 1,000	163, 270 159, 122 637, 810 26, 091 8, 534	2,863,455 5,235,481 5,537,640 357,580 91,568	1, 410, 343 2, 883, 624 2, 046, 458 238, 693 62, 780
22 23	3, 168, 017 1, 181, 486	3,483,560 2,052,346	126,301 45,765	77,061 53,830	1,326,080 924,698	58, 159 70, 783	1,508,282 915,237	202, 667 4, 200	26, 244 11, 981	29,705	129, 061 25, 852	4,165,155 2,052,346	2, 598, <b>714</b> 1, 066, <b>326</b>
24	9, 099, 347	5,311,962	126,801	93,992	2, 236, 068	93, 466	2, 450, 300	5,360	110,998		194, 977	5,311,962	2, 768, 196
25 26	10, 310, 476 3, 474, 401	11,767,883 2,491,582	271,392 116,018	352,727 109,121	981, 253 786, 095	305, 163 15, 013	8,913,338 1,163,068	45, 532 33, 338	55, 278 10, 606	7,182	843, 200 251, 141	12,945,352 3,035,596	3, 726, 851 1, 857, 515
27 28 29 30 31	88, 943, 663 80, 761, 926 6, 102, 708 2, 101, 397 9, 029, 546	197, 794, 162 236, 090, 095 13, 767, 456 1, 896, 950 18, 394, 868	2,118,529 3,201,948 181,427 60,618 634,534	5, 918, 880 9, 897, 302 549, 918 138, 665 654, 644	37, 978, 340 53, 517, 688 648, 678 287, 663 2, 373, 127	708,008 1,133,499 141,809 17,374 202,199	112, 123, 104 143, 711, 528 11, 306, 518 1, 195, 755 12, 192, 813	2,928,191 5,338,824 145,113 26,343 408,211	48, 835 27, 002 37, 739 7, 039 38, 922	27, 270, 086 8, 919, 667 1, 815	8, 700, 189 10, 342, 637 754, 439 163, 493 1, 889, 418	218, 411, 030 266, 477, 381 15, 819, 392 2, 102, 009 20, 062, 181	105, 579, 918 121, 632, 354 4, 371, 065 888, 880 7, 667, 169
32		3,067,560	42,188	21,818	524, 326	33,963	2, 187, 071	21,953	22,609	77,050	136, 582	3,445,603	1, 224, 569
33 34 35 36	10,060,013 2,090,720	20, 985, 558 7, 238, 697 4, 105, 861 942, 532	729, 907 132, 067 89, 428 43, 024	622, 306 142, 362 252, 412 25, 372	5,785,729 1,601,368 888,943 165,198	606, 030 115, 883 22, 994 14, 922	11, 450, 550 4, 154, 631 2, 148, 927 558, 706	342, 449 91, 850 127, 730 6, 975	7,598	160, 457 87, 665 73, 586	1,216,895 912,376 480,164 51,632	23,303,074 7,374,073 4,610,171 1,051,108	11, 246, 494 3, 103, 559 2, 438, 250 477, 489
37 38 39	4,034,564	1, 170, 244 5, 288, 218 13, 753, 508	69,017 401,608 737,875			17, 590 133, 284 170, 876	442, 869 2, 593, 842 6, 666, 551	43, 504 95, 954 204, 621	22,866	14,060 320,232 25,625	166, 229 405, 875 1, 725, 287	1,345,558 6,002,643 14,787,736	885, 099 3, 275, 517 7, 950, 309
40		655,737 50,137	27,981 900	18,542 2,000	314, 695 22, 367	26,722 3,017	179, 029 14, 416	56, 695 3, 516			. 29,744 3,538	885,726 77,215	679, 975 59, 782
4: 4: 4: 4:	129,890 5,483,280 108,651	302, 343 5, 921, 245 99, 760	19,276 243,679 8,307 21,204	379, 593 4, 220	1,448,313 41,656	4,189 53,704 5,206 8,924	33,825	10,864 120,286 1,637 40,343	13,443 845	103,776 498	722, 550 3, 566		82,297
4			1		797,233	130,763	4,852,608	141,605	22,405	1,365	861,362	8,046,233	3,062,867

23, 207, 673 23, 353, 241 15, 489, 683 8, 528, 961 224, 472

850, 613 80, 909 54, 853 201, 633

16,735,910 5,482,884 .2,997,751 5,359,266 512,331

2,990,963 1,246,844 1,300,322 616,994

3,035,345 446,384 388,053 561,986

54,603,313 33,847,054 22,641,830 17,248,745

82,972,570 18,635,692 10,325,813 11,446,217 950, 920 918, 212 425, 705 565, 407 38, 772 271, 296 47, 324 3, 530 60, 861 746,894 262,823 731,809 204,601 5,813,699 2,008,433 1,250,124 1,149,036

# SUPPLEMENT FOR NEW YORK.

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

NEW YORK CITY-Continued.

				The second second second	PERS	ONS EN	GAGED	IN INDU	JSTRY.	70.0110.000		WAGE OR NE	EARNEF AREST R	S—NUM EPRESEN	BER DI	EC. 15, E DAY.	
	INDUSTRY.	Num ber of estab		Pro- prie-	Sala- ried offi- cers,	Cle	rks.	(	Wage e average n				16 an	d over.	Und	er 16.	Pri- mary
		lish- ment	Total	tors and firm mem- bers.	super- intend- ents, and man- agers.	Male.	Fe- male	Total.	Male.	Fe-male.	Un- der 16.	Total.	Male.	Fe- male.	Male.	Fe- male.	horse- power.
5	reflectors.		5,900	127	210	580	126	4,857	4,562	276	19	5,411	5,082	308	21		2,899
5: 5: 5: 5:	Glass. Glass, cutting, staining, and ornamenting. Gloves and mittens, leather.	9 111 38	6,296 948 2,360 465	3 126 46	183 33 53 3	1,691 23 74 13	96 5 55 7	4,326 884 2,052 396	4,325 827 1,835 161	1 15 190 230	42 27 5	4,411 993 2,240 433	4,410 929 2,003 176	1 17 207 252	41 17 4	6 13 1	23, 177 450 529 17
51 58		34 10	402 64	39 13	3 2	7 7	5	348 42	186 42	157	5	351 43	188 43	158	4	1	41
55 66 63	Hair work	126 46 226	2,704 436 3,822	160 45 324	20 28 51	149 35 190	84 12 47	2,291 316 3,210	994 271 2,541	1,288 36 663	9 9 6	2,519 341 3,389	1,093 292 2,683	1,417 39 700	2 10 6	7	97 2 104 399
6: 6: 6:	Hosiery and knit goods. House-furnishing goods, not elsewhere specified.	73	1,993 6,082 899	32 203 86	40 94 21	120 303 57	31 101 33	1,770 5,381 702	1,003 1,666 260	752 3,646 435	15 69 7	1,952 5,907 759	1,106 1,829 281	829 4,002 470	9 7 4	8 69 4	781 1,551 338
66 66	Ink, printing		803 883	11 18	60 56	45 253	2 48	685 508	685 498	10		639 512	639 502	10			14,791 2,199
69 69 70 71	Instruments, professional and scientific. Jewelry Jewelry and instrument cases. Kaolin and ground earths	6 63 438 57 10	213 1,358 6,668 878 107	5 55 553 66 8	17 51 168 25 8	40 137 556 37 1	5 34 352 14 1	146 1,081 5,039 736 89	72 965 4,273 441 89	74 108 659 292	8 107 3	1,123 5,538 811 92	72 1,003 4,696 486 92	$\begin{array}{c} 74 \\ 112 \\ 724 \\ 322 \end{array}$	6 106 2	 2 12 1	58 1,416 1,445 93
72 73 74 75 76	Lasts. Lead, bar, pipe, and sheet. Leather goods. Leather, tanned, curried, and finished. Liquors, malt.	6 6 389 20 74	225 211 7,672 533 6,878	2 1 485 18 20	13 14 172 22 281	11 15 536 31 770	4 4 178 9 14	195 177 6,301 453 5,793	195 176 5,149 384 5,792	1,098 69 1	1 54	220 178 6,562 502 5,914	220 177 5,362 425 5,913	1,144 77 1	1 36	20	285 1,127 946 985 21 972
77 78 79 80 81	Looking-glass and picture frames. Lumber and timber products. Marble and stone work. Mattresses and spring beds. Millinery and lace goods.	115 275 247 122 886	1,509 9,292 4,795 1,454 24,712	122 255 255 130 1,181	50 289 218 58 477	118 516 231 111 1,739	39 82 29 42 754	1,180 8,150 4,062 1,113 20,561	1,094 8,125 4,054 923 4,412	75 7 190	11 18 8 284	1,341 8,684 4,430 1,114 21,629	1,243 8,657 4,421 924	85 8 190	11 19 9	2	31,375 543 19,240 10,711 819
82 83		37 96	938 1,094	46 110	27 37	65 66	18 27	782 854	763 717	19 132	5	844 903	823 758	16,689 21	55	244	3,372 835
84 85		37	304	37	7	14	11	235	216	19		260	239	140 21•		5	526 126
86	and materials.  Paint and varnish	133	9,305 4,319	84 60	264 261	363 968	167 228	8,427 2,802	8, 216 2, 562	101 231	110	8,979 2,871	8,754	108	116	1	6,033
87 88	Paper goods, not elsewhere specified Patent medicines and compounds and	82 433	4, 271 5, 450	55 291	129 440	461 973	141 574	3,485 3,172	1,395 1,446	2,011 1,700	79 26	3,647 3,379	2,625 1,460	237 2,104 1,811	9	74	8,025 3,311
89 90 91	druggists' preparations. Pens, fountain, stylographic, and gold Photo-engraving Pipes, tobacco	30 46 21	1, 108 1, 517 1, 772	25 25 30	44 76 28	197 193 92	112 36 40	730 1,187 1,582	642 1,158 1,367	79 21 202	9 8 13	755 1,231 1,578	1,540 664 1,201 1,364	82 22 201	9 7 8 4	19	2,928 192 275 701
92 93 94 95 96	Saws	2,883 36 7 10	647 74,118 1,161 152 80	2 2,352 31 8 6	3, 183 41 6 10	21 13,492 121 16 4	6,769 28 9	580 48,322 940 113 56	501 37,536 676 111 56	75 10,453 254 2	333 10	650 51,008 998 125 65	EQ1	84 11,034 269 2	1 244 2	107 9	705 37,835 2,916 401
97 98 99 100 101	Shipbuilding, including boat building Show cases. Silk and silk goods, including throwsters Silverware and plated ware Slaughtering and meat packing	71 17 118 42 112	4,328 452 8,887 1,852 4,863	66 23 116 43 127	73 20 160 64 104	156 22 485 245 589	11 8 174 59 119	4,022 379 7,952 1,441 3,924	4,014 370 3,008 1,335 3,919	4 7 4,744 101 5	4 2 200 5	3,906 404 8,064 1,574	3,898 395 3,050 1,458	4,811 110	4 . 1 49 6 .	1 154	38 9,756 476 4,589 1,144
102 103 104 105 106	Smelting and refining, not from the ore Soap Stationery goods, not elsewhere specified. Steam packing. Stereotyping and electrotyping.	11 41 49 25 34	331 2,191 788 839 1,036	16 34 46 14 26	9 74 43 28 56	63 342 85 62 139	9 206 72 8 25	234 1,535 542 727 790	234 1,262 303 662 790	273 226 63	13 2	4,006 238 1,571 539 858	238 1,292 301 781	279 225 74	4 3 .	9	285 3,144 245 1,210
107 108	Stoves and furnaces, including gas and oil	23	1,342	17	46	115	41	1,123	1,121	2 .		811 1,071	1,069	2 .			1,180 2,596
109 110 111	Surgical appliances and artificial limbs Tobacco manufactures	49 59 23	514 26,664 1,284 260	2,199 61 17	32 417 44 21	1,221 55 24	31 305 29 9	338 22,521 1,095 189	188 10,334 5 <sup>75</sup> 165	2,119 496 24	5 68 24	325 24,833 1,206 196	181 11,395 633 171	139 3,363 546 25	26 20	5 49 7	172 2,115 297 217
112 113 114 115 116	Typewriters and supplies. Umbrellas and canes. Vinegar and cider. Wall paper. Wall plaster.	27 134 4 7 12	905 2,322 57 811 912	19 170 2 2 5	48 51 5 10 28	155 145 10 119 64	23 59 14 11	660 1,897 40 666 804	563 1,038 40 576 786	97 853 88 18	6	670 2,029 44 806 823	572 1,110 44 697 805	98 912 106 18	7	1	407 495 75 566 3,730

## STATISTICS OF MANUFACTURES.

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

## CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES-Continued.

NEW YORK CITY—Continued.

					14 22 04	A CALL	CRER				11		
	1					EXPENSI	ES.						
	Capital.			Services.		. Mate	erials.		Miscell	aneous.		Value of products.	Value added by manu-
	,	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	facture.
52	\$8,383,303	\$9,849,276	\$636,364	\$617,449	\$2,914,567	\$131,276	\$4,217,348	\$286,222	\$35,096	\$30,227	\$980,727	\$10,749,842	\$6,401,218
53 54 55 56	203,758,425 1,266,985 1,908,163 316,174	23,418,627 969,003 3,047,752 588,651	694, 242 70, 152 145, 691 3, 698	$\begin{array}{c} 1,625,698 \\ 25,125 \\ 104,554 \\ 21,671 \end{array}$	3,115,400 486,696 1,351,715 194,664	8,807,500 80,276 41,332 4,024	3,928,776 200,226 1,088,981 286,482	3,000 14,463 98,876 24,648	2,114,564 4,972 3,181	1,865 8,218 32,980	$\substack{3,127,582\\87,093\\205,204\\21,084}$	34, 116, 558 1, 127, 865 3, 448, 106 668, 385	$21,380,282\\847,363\\2,317,793\\377,879$
57 58	284, 982 540, 369	755,716 2,480,044	3,240 5,000	7,148 7,576	200,988 34,271	2,807 7,845	473,210 2,388,078	11,096 17,160	491 1,573	8,114 3,750	48, 622 14, 791	832,601 2,603,311	356,584 207,388
59 60 61	3, 249, 618 364, 048 2, 687, 949	$\substack{6,370,772\\493,751\\6,503,824}$	36,228 51,312 115,200	193, 634 31, 970 262, 991	1,050,412 191,195 1,939,839	17, 267 5, 606 34, 871	4,464,973 148,986 3,695,562	112,362 29,897 170,064	2,664 1,558 1,330	110, 226 14, 114 48, 081	383,006 19,113 235,886	7,817,490 577,560 7,514,924	$3,335,250 \ 422,968 \ 3,784,491$
62 63 64	2, 946, 677 8, 002, 571 1, 225, 116	4,413,510 11,717,874 2,195,775	92,286 235,077 33,733	129, 644 417, 884 79, 625	1, 083, 855 2, 352, 768 341, 274	33,755 69,871 10,963	2,533,255 7,445,341 1,492,328	37,648 139,294 71,579	11,867 15,142 1,669	146, 237 505, 134 6, 900	344, 963 537, 363 157, 704	4,765,029 13,565,408 2,534,238	2,198,019 6,050,196 1,030,947
65 66	4,453,500 2,997,809	2, 188, 071 3, 299, 514	153,433 301,323	46, 885 272, 463	546,897 358,248	619,456 45,401	219, 429 1, 804, 347	156, 759 35, 469	48, 250 14, <b>3</b> 84	5,301	391,661 467,879	2,812,567 $3,965,174$	1,973,682 2,115,426
67 68 69 70 71	602, 022 2, 419, 823 12, 253, 118 761, 047 134, 783	585,688 1,830,809 16,181,651 1,103,390 225,758	50,700 125,443 449,042 42,613 12,600	69, 695 146, 851 642, 050 32, 769 1, 416	61,841 677,775 3,617,362 395,465 46,855	3, 488 30, 839 106, 658 8, 168 12, 155	279, 497 623, 490 9, 896, 966 524, 226 125, 729	13,770 66,457 350,675 41,721 11,037	3,753 4,044 6,705 406 623	28, 944 126, 121 2, 594	102, 944 126, 966 986, 072 55, 428 15, 343	737,335 1,908,794 19,236,368 1,353,473 245,015	454,350 1,254,465 9,232,744 821,079 107,131
72 73 74 75 76	196, 871 945, 381 7, 911, 976 1, 177, 186 87, 005, 927	404,227 1,871,934 16,072,273 1,723,051 43,303,435	31, 883 39, 460 399, 361 49, 663 2, 027, 555	$\begin{array}{c} 20,815 \\ 32,218 \\ 626,157 \\ 38,859 \\ 1,317,559 \end{array}$	135,356 114,369 3,440,040 234,573 4,935,585	10,934 11,696 74,598 20,944 1,083,139	132,856 1,561,931 9,974,843 1,255,091 11,713,774	23,570 12,297 414,259 28,197 21,240	1,428 7,046 9,571 2,575 9,501,470	26,512 132,263 43,846	47, 385 66, 405 1, 001, 181 49, 303 12, 703, 113	455,089 1,891,401 17,775,062 1,946,453 53,468,611	311,299 317,774 7,725,621 670,418 40,671,698
77 78 79 80 81	1,609,048 17,227,234 10,055,303 2,045,918 19,412,860	2,563,108 22,089,249 10,737,038 3,943,581 43,967,130	124, 439 601, 468 494, 340 90, 364 937, 745	131,870 550,593 243,425 101,213 2,240,181	711,208 5,214,389 3,784,529 668,192 9,419,463	18,840 191,870 157,104 27,906 243,491	1,210,961 13,912,529 4,899,299 2,573,222 26,517,208	143,769 331,533 224,891 126,203 1,219,351	4,049 105,584 74,003 5,039 20,884	24,658 96,018 342,855 150 788,269	193,314 1,085,265 516,592 351,292 2,580,538	2,990,901 24,121,960 12,204,706 4,366,864 51,238,787	1,761,100 10,017,561 7,148,303 1,765,736 24,478,088
82 83	1,329,347 1,254,242	2,396,023 1,620,691	53, 125 87, 883	74,600 80,993	501,880 563,047	26, 367 26, 030	1,555,551 534,114	64, 423 67, 207	6,497 1,866	1,600 21,154	111,980 238,397	2,611,915 2,094,564	1,029,997 1,534,420
84	353,640	386,535	12, 422	15,896	132, 193	6,376	161,620	25, 200	713	6,495	25,620	468,932	300,936
85	23,086,302	23, 158, 677	899,536	534,665	5,772,761	144,050	13,047,274	508,334	100,605	216,765	1,934,687	25,516,307	12,324,983
86	20, 267, 253	23,866,096	797,037	1,336,737	1,732,972	267,346	16,545,772	134,111	99,213	67,513 85,259	2,885,395 757,761	26, 664, 174 8, 833, 341	9,851,056 4,267,674
87 88	6,524,771 12,865,558	8,061,299 19,466,210	406,391 1,427,951	$487,662 \\ 1,445,279$	1, 428, 046 1, 555, 720	91, 925 118, 723	4,473,742 9,162,026	168,324 431,593	162, 189 58, 881	28,092	5,237,945	24, 984, 276	15,703,527
89 90 91	1,853,306 806,616 2,148,310	2,817,336 2,268,987 2,536,954	100,394 198,386 45,068	274,037 158,575 125,275	426, 874 1, 194, 608 727, 255	10,523 44,679 20,162	1,552,351 445,349 1,387,524	39, 193 80, 937 30, 940	4,222 1,428 268	4,089 16,117 1,020	405,653 128,908 199,442	3, 218, 760 2, 516, 654 3, 136, 671	1,655,886 2,026,626 1,728,985
92 93 94 95 96	1,589,459 123,145,551 2,861,045 213,037 127,676	837, 222 160, 572, 504 3, 348, 415 307, 164 111, 982	91,242 9,839,658 168,743 12,860 19,264	24,878 19,034,532 179,793 12,795 4,120	350, 479 35, 097, 054 500, 136 63, 547 33, 564	76, 885 1,519, 172 34, 031 6, 934 1, 704	131,244 44,993,725 2,150,329 157,519 37,524	12,044 3,646,438 35,359 2,780 7,026	10,534 414,670 10,190 1,068 135	5,500 16,183,145 15,448 271	134,416 29,844,710 254,386 49,661 8,374	962,301 183,509,157 3,646,615 320,914 135,426	754,172 136,996,260 1,462,255 156,461 96,198
97 98 99 100 101	10, 166, 324 462, 620 13, 146, 961 3, 794, 226 25, 185, 485	7,093,423 697,457 15,164,314 3,718,257 92,197,315	241, 131 45, 860 417, 426 181, 714 375, 021	214,675 22,504 636,159 215,985 837,002	2,731,972 205,949 3,564,709 978,100 3,170,882	132, 495 12, 273 132, 401 35, 530 349, 466	2,559,501 361,832 8,357,752 1,829,331 83,484,669	90, 798 22, 463 287, 731 66, 303 225, 268	51,318 1,302 27,138 9,138 207,896	928, 483 5, 700 23, 575	984,709 25,274 812,515 396,456 3,523,536	8,388,941 815,852 16,949,664 4,198,976 95,862,422	5,696,945 441,747 8,459,511 2,334,115 12,028,287
102 103 104 105 106	2,694,037 8,912,089 1,157,598 2,707,349 1,053,954	8,130,714 12,154,974 1,557,063 1,943,654 1,842,756	23, 200 172, 519 88, 412 119, 812 143, 195	86,122 390,596 132,430 45,768 156,465	161, 176 839, 799 276, 934 351, 776 771, 243	43,158 177,859 12,005 43,392 69,076	7,733,206 8,991,111 757,510 1,153,283 477,906	14, 406 115, 561 53, 870 16, 395 87, 291	3,270 23,100 1,944 9,079 1,436	2,825 52,306 104 8,342	66,176 1,441,604 181,652 204,045 127,802	8,416,863 13,925,009 1,748,071 2,089,817 1,960,829	640, 499 4, 756, 039 978, 556 893, 142 1, 413, 847
107	3, 185, 104	2,985,000	143,384	136, 469	745,558	82,717	1,521,825	69,873	18,028	3,089	264,057	3, 105, 564	1,501,022
108 109 110 111	681,968 34,003,410 1,075,191 511,131	928, 287 53, 344, 086 1, 454, 443 655, 646	76,909 1,002,589 62,552 54,516	62,125 1,604,246 58,857 30,150	208, 400 10, 306, 518 414, 979 131, 408	11,974 149,535 15,954 9,348	368,644 25,280,817 737,165 347,877	43,921 814,084 63,730 30,911	7,684,706 849 1,211	4,357 17,443 10,247 50	151,153 6,484,148 90,110 50,175	1, 119, 444 62, 488, 451 1, 634, 072 748, 692	738, 826 37,058,099 880, 953 391, 467
112 113 114 115 116	2,019,876	1,717,767 5,693,550 129,933 2,176,689 2,728,331	124,278 103,757 5,200 43,200 133,521	123,325 144,591 7,971 146,492 94,117	384,681 898,774 19,992 359,397 429,051	15,616 37,043 3,060 20,646 95,272	713,110 4,075,813 79,607 1,123,528 1,659,710	29,078 147,442 6,120 41,276 6,510	6,860 1,498 493 11,048 17,118	31,344	320,819 270,057 7,490 399,158 261,656	1,961,223 6,373,852 130,967 2,437,042 2,902,908	1,232,497 2,260,996 48,300 1,292,868 1,147,926

TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND

#### CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES-Continued.

NEW YORK CHTY-Continued.

					PERSO	NS ENG	AGED	IN INDUS	STRY.				EARNER: REST RE				
	INDUSTRY.	Num- ber of estab-		Pro-	Sala- ried offi-	Cler	ks.	(a	Wage ea verage n	rners umber)	•		16 and	l over.	Und	er 16.	Pri- mary
		lish- ments	Total	tors and firm mem- bers.	cers, super- intend- ents, and man- agers.	Male.	Fe- male.	Total.	16 and	Fe- male.	Un- der 16.	Total.	Male.	Fe- male.	Male.	Fe- male.	horse- power.
120	Window shades and fixtures Wirework, including wire rope and cable Wood, turned and carved Woolen, worsted, and felt goods, and wool hats.	67 67 82 11	761 1,200 1,012 468	72 68 104 13	32 60 19 13	101 73 48 22	34 25 13 1	522 974 828 419	407 896 710 255	115 65 118 163	13	536 1,042 810 486	418 959 695 296	118 70 115 189	13	1	130 724 824 565
121	All other industries 1	1,421	38,104	1,461	1,171	3,556	1,194	30,722	23,478	6,977	267	31,804	24,305	7,223	107	169	60,664

<sup>1</sup> All other industries embrace: Artists' materials, 13; awnings, tents, and sails, 84; axle grease, 5; babbitt metal and solder, 20; bags, other than paper, 14; baking powders and yeast, 10; billiard tables and materials, 11; bone, carbon, and lampblack, 1; brick and tile, 3; butter, reworking, 1; candles, 4; card cutting and designing, 21; carriages and sleds, children's, 9; cash registers and calculating machines, 3; charcoal, 1; china decorating, 7; chocolate and cocoa products, 8; cloth, sponging and refinishing, 23; clothing, horse, 7; clothing, men's, buttonholes, 81; cordials and sirups, 32; cork cutting, 31; dairymen's, poulterers', and apiarists' supplies, 1; dentists' materials, 13; drug grinding, 9; dyestuffs and extracts, 14; emery and other abrasive wheels, 3; engraving and dlesinking, 72; engraving, wood, 23; fertilizers, 3; firearms and ammunition, 2; fire extinguishers, chemical, 5; fireworks, 4; flavoring extracts, 63; flour-mill and gristmill products, 10; foundry supplies, 1; fiel, manulactured, 1; galvanizing, 8; glucose and stard, 3; glue, 7; grease and tallow, 5; hammocks, 1; hat and cap materials, 31; hats, straw, 42; horseshoes, not made in steel works or rolling mills, 2; iron and steel, steel works and rolling mills, 3; iron and steel, bolts, nuts, washers, and rivets, not made in steel works or rolling mills, 5; iron and steel, foors and shutters, 9; iron and steel forgings, 8;

#### ROCHESTER.

		T	il .	ii						,	7					,	
1	All industries		46,617	1,042	1,248	3,434	1,785	39, 108	26,717	11,977	414	41,865	28,672	12,756	204	233	39,277
$\frac{2}{3}$	Baking powders and yeast.  Boots and shoes, including cut stock and findings.		6,676	6 44	1 160	3 133	$\begin{array}{c} 1 \\ 222 \end{array}$	6,117	3,401	$\frac{2}{2,551}$	165	6,430	$\frac{1}{3,577}$	2 2,682	84	87	7 1,911
4 5 6	Boxes, cigar	15	18 760 252	7 10 2	23 12	11 7	$\begin{array}{c} 12 \\ 6 \end{array}$	11 704 225	9 176 214	500 10	28 1	11 768 219	9 192 208	545 10	3 1	28	26 303 301
7 8 9 10 11	Bread and other bakery products. Buttons. Carriages and wagons and materials. Clothing, men's, including shirts. Clothing, women's.	17 196	626 1,639 609 8,559 92	$\begin{array}{c} 120 \\ 19 \\ 241 \\ 1 \end{array}$	8 24 12 89 9	51 107 47 395 2	30 85 9 102 5	417 1,423 522 7,732 75	374 694 521 3,673 23	$\begin{bmatrix} 42 \\ 692 \\ 1 \\ 3,990 \\ 52 \end{bmatrix}$	1 37 	434 1,595 521 8,222 86	389 778 520 3,904 26	44 775 1 4,247 60	1 8 10	34 61	258 1,126 420 1,007 21
12 13 14	Coffee and spice, roasting and grinding Confectionery Cooperage and wooden goods, not elsewhere specified.	6 16 10	144 697 180	1 13 11	7 20 5	19 42 3	$^{4}_{16}$	113 606 157	76 224 156	37 382	 1	99 623 150	67 230 149	32 393	·····i		192 441 314
15 16	Cutlery and tools, not elsewhere specified Electrical machinery, apparatus, and supplies.	11 9	125 949	15 1	16	4 155	$\frac{2}{61}$	100 716	100 582	134		106 764	106 621	143			648 1,283
17 18 19 20 21	Electroplating Flour-mill and gristmill products Food preparations Foundry and machine-shop products. Fur goods	89 7	35 152 44 2,784 109	3 1 4 60 9	2 22 2 127 2	12 5 135 2	7 6 97 8	28 110 27 2,365 88	28 110 13 2,346 38	14 17 50	2	35 123 33 2,756 106	35 123 16 2,733 46	17 19 60			2,798 42 2,618 30
22 23 24	Furnishing goods, men's Furniture and refrigerators. Gas and electric fixtures and lamps and reflectors.	6 27 8	335 1,647 643	3 16 2	7 56 20	42 88 19	$\frac{6}{22}$	277 1,465 591	43 1,442 579	229 16 12	5 7	258 1,606 643	40 1,581 630	213 17 13	8	5	34 1,943 426
25 26	Glass, cutting, staining, and ornamenting Hand stamps and stencils and brands	5 4	49 21	4 5	1	3	$\frac{2}{2}$	39 14	39 11	<u>.</u>	1	40 13	40 10	2	i		4
27	Hats and caps, other than felt, straw, and wool.	7	43	8	2	3		30	18	12		39	23	16			3
28 29 30	Ice, manufacturedLiquors, malt	4	67 140 495	2 1	$\frac{3}{11}$ 29	11 3 71	3	53 124 391	53 121 391	3		50 134 392	50 131 392		3		580 255 1,301
31 32 33	Looking-glass and picture frames. Lumber and timber products. Models and patterns, not including paper patterns.	9 22 9	211 1,098 50	7 10 8	$^{11}_{39}_{2}$	$\frac{12}{52}$	3 16	178 981 38	163 964 33	13 13 4	2 4 1	175 1,028 40	160 1,011 35	13 13 4	2 4 1		107 2,935 29
34	Musical instruments, pianos and organs and materials.	4	118	2	8		4	104	103	1		119	118	1			168
35	Patent medicines and compounds and druggists' preparations.	32	245	20	23	54	32	116	37	79		136	43	93			83
36 37 38	Printing and publishing.  Slaughtering and meat packing.  Surgical appliances and artificial limbs	123 15 4	2,713 50 29	84 20 3	103	391 5 5	262	1,873 25 18	1,455 24 16	$\frac{397}{1}$	21	$1,990 \\ 26 \\ 17$	1,546 25 15	$^{422}_{\ \ 2}$	21	1	2,241 129 10
39 40 41 42	Tobacco manufactures. Typewriters and supplies. Wood, turned and carved. All other industries 1.	94 8 11 215	$\begin{array}{c} 325 \\ 123 \\ 41 \\ 13,710 \end{array}$	102 2 11 164	7 16 364	$\begin{array}{c} 7 \\ 20 \\ 1 \\ 1,510 \end{array}$	722	209 64 29 10,950	166 59 29 8,212	$\begin{array}{c} 41 \\ 4 \\ 2,672 \end{array}$	66	234 65 28 11,748	186 60 28 8,818	46 4 2,864	2 1 49	17	15 171 115 14,923

<sup>1</sup> All other industries embrace: Artificial flowers and feathers and plumes, 1; artificial stone, 9; automobiles, including bodies and parts, 4; awnings, tents, and sails, 3; babbitt metal and solder, 1; bags, paper, 1; baskets, and rattan and willow ware, 3; belting and hose, leather, 2; belting and hose, woven and rubber, 1; billiard tables and materials, 1; blacking and cleansing and polishing preparations, 3; bluing, 2; brooms, 1; brushes, 3; canning and preserving, 4; carpets, rag, 2; carriages and sleds, children's, 2; china decorating, 1; cloth, sponging and refinishing, 1; clothing, men's, buttonholes, 5; coffins, burial cases, and undertakers' goods, 2; copper, tin, and sheet-iron producis, 1; cordials and sirups, 2; corsets, 1; enameling and lapanning, 2; engraving and dissinking, 2; fancy articles, not elsewhere specified, 2; fireworks, 1; flags, banners, regaliar, society badges, and emblems, 2; flavoring extracts, 4; gas, illuminating and heating, 1; glass, 1; gold and silver, leaf and foil, 1; grease and tallow, 1; hair work, 2; hats, furfelt, 1; hosiery and knit goods, 1; ink, writing, 1; instruments, professional and scientific, 3; iron and steel forgings, 1; iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills, 1; jewelry, 4; jewelry and instrument cases, 1; leather goods, 6; leather, tanned, curried and finished, 1; lime, 1; liquors,

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909-Continued.

## CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES-Continued.

NEW YORK CITY-Continued.

						EXPENS	ES.						
	Capital			Services.		Mat	erials.		Miscell	aneous.		Value of products.	Value added by manu-
	Capital.	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	facture.
117 118 119 120	\$1,716,974 1,672,000 910,188 1,035,516	\$3,802,578 2,105,599 1,420,955 1,273,918	\$89,656 122,874 37,117 12,596	\$116,678 84,730 66,347 21,079	\$298, 557 534, 027 493, 175 206, 611	\$12,169 24,538 37,363 14,214	\$3,002,724 1,127,020 624,493 948,754	\$60,291 59,180 57,544 13,037	\$6,282 6,212 215 2,832	\$10,916 1,414	\$216, 221 136, 102 103, 287 54, 795	\$4, 125, 488 2, 358, 299 1, 707, 488 1, 511, 642	\$1,110,595 1,206,741 1,045,632 548,674
121	159,734,370	254, 792, 427	3,574,252	4,683,949	17,813,804	3,044,990	205, 432, 826	1,502,216	5,644,677	162,845	12,932,868	272,193,534	63,715,718

iron and steel, nails and spikes, cut and wrought, including wire nails, not made in steel works or rolling mills, 3; labels and tags, 23; lapidary work, 42; liquors, distilled,1; liquors, vinous, 3; malt, 2; matches, 1; mats and matting, 3; mineral and soda waters, 252; moving pictures, 7; mucilage and paste, 13; needles, pins, and hooks and eyes, 2; oakum, 1; oil, essential, 1; oil, linseed, 1; oil, not elsewhere specified, 20; oilcloth and linoleum, 2; optical goods, 27; paper and wood pulp, 1; paper patterns, 15; paving materials, 6; pencils, lead, 2; petroleum, refining, 3; phonographs and graphophones, 2; photographic apparatus and materials, 21; pumps, not including steam pumps, 3; roofing materials, 3; rules, ivory and wood, 2; sand and emery paper and cloth, 2; scales and balances, 6; screws, machine, 2; shoddy, 1; signs and advertising noveities, 60; smelting and refining, copper, 1; soda-water apparatus, 26; sporting and athletic goods, 25; springs, steel, car and carriage, 2; statuary and art goods, 50; sugar, refining, not including level sugar, 3; tin foil, 4; tin plate and terneplate, 2; upholstering materials, 10; vault lights and ventilators, 11; washing machines and clothes wringers, 1; whalebone cutting, 1; whips, 2; wire, 2; wood carpet, 6; wood preserving, 3; wool pulling, 2.

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1	\$95,707,791	\$94,358,221	\$3, 199, 373	\$4,534,279	\$21, 518, 034	\$1, 182, 804	\$49, 491, 578	\$668,791	\$911,048	\$2,411,591	\$10, 440, 723	\$112,676,215	\$62,001,833
2 3	$\begin{bmatrix} 12,424 \\ 6,787,526 \end{bmatrix}$	20,933 12,247,981	728 347, 154	3,832 308,050	$1,092 \\ 3,038,249$	378 59,530	11,069 7,751,012	710 89,314	$\frac{40}{13,800}$		3,084 640,872	$28,094 \\ 13,450,155$	5,639,613
4 5 6	$\begin{bmatrix} 14,050 \\ 636,145 \\ 321,750 \end{bmatrix}$	21,147 864,212 520,347	55,606 31,880	24, 070 8, 585	5,070 253,233 110,400	398 10, 221 11, 151	$\begin{array}{c} 13,857 \\ 460,293 \\ 337,220 \end{array}$	$\begin{array}{c} 325 \\ 24,823 \\ 3,271 \end{array}$	1,930 833		1,417 34,036 17,007	26,738 965,727 569,460	$\begin{array}{c} 12,483 \\ 495,213 \\ 221,089 \end{array}$
7 8 9 10 11	843,083 1,963,527 1,786,567 10,808,113 66,915	1,855,492 1,475,018 1,127,663 17,355,581 147,380	10,484 58,860 46,977 387,462 8,563	48,236 193,716 74,877 774,689 2,896	297, 136 538, 220 380, 320 3, 808, 562 29, 720	39, 464 24, 431 11, 395 66, 451 1, 703	* 1,319,797 504,348 492,768 8,615,110 91,256	26,644 14,886 7,664 106,575 3,072	7,760 7,777 9,700 17,621	4,509 2,065,400	105,801 132,780 99,453 1,513,711 10,170	2, 108, 821 1, 821, 230 1, 177, 190 18, 878, 508 153, 086	$749,560 \\ 1,292,451 \\ 673,027 \\ 10,196,947 \\ 60,127$
12 13 14	232, 448 880, 145 355, 627	633,960 1,584,247 638,384	16,800 52,386 10,056	21, 269 49, 671 4, 882	43,360 228,276 81,404	4, 824 18, 934 5, 385	506, 165 996, 627 516, 409	$\begin{array}{c} 6,794 \\ 20,001 \\ 230 \end{array}$	516 $3,766$ $1,381$		34, 232 214, 586 18, 637	672,518 1,926,726 688,710	161, 529 911, 165 166, 916
15 16	240, 316 4, 230, 332	128,882 1,690,780	5, 448 48, 051	2,957 163,998	66,309 479,823	6, 166 21, 780	28,680 789,660	2,172 4,010	1, 976 9, 516	3, 195	11, 979 173, 942	161,862 1,677,096	127,016 865,656
17 18 19 20 21	23,706 1,053,527 75,359 6,093,437 177,148	31,956 3,278,747 104,966 4,698,391 205,031	2, 236 40, 872 2, 207 273, 541 2, 540	864 13,720 6,340 162,284 6,416	20,721 74,711 13,034 1,619,254 51,281	1, 251 15, 588 1, 872 95, 198 1, 633	3,019 3,050,306 65,885 1,871,462 110,165	2,748 440 3,284 46,938 14,050	25 7, 406 5 23, 268 113	500 18,889 150	1,092 75,204 12,339 587,557 18,683	36,790 3,381,376 116,272 5,743,964 406,406	32,520 315,482 48,515 3,777,304 294,603
22 23 24	298,110 2,806,025 1,174,508	727, 521 2, 777, 299 1, 067, 976	13,760 135,250 49,650	48, 897 140, 299 25, 935	88,698 915,316 269,356	1, 401 38, 167 10, 527	492,627 1,172,041 547,432	6,880 30,912 9,999	58 17,388 4,535	20,000 7,075	55, 200 320, 851 150, 542	784, 459 3, 086, 855 1, 106, 024	290, 431 1, 876, 647 548, 065
25 26	42,412 19,531	89,569 25,750	1,092	4,576 780	26,907 6,994	107 124	50,235 14,577	2,212 1,389			4,440 1,886	104,056 35,781	53, 714 21, 080
27	17,436	66,896	2,600	1,322	13,534	432	35,340	1,540	35	13	12,080	82,100	46,328
28 29 30	259, 255 211, 709 4, 823, 929	107,509 241,268 2,202,659	2,600 19,652 78,875	7,088 2,916 79,775	39,602 83,217 308,902	16,373 3,655 67,538	11,847 90,307 664,158	4,704 3,000	1,308 139 495,687		28,691 36,678 504,724	137,303 273,307 3,011,529	109, 083 179, 345 2, 279, 833
31 32 33	328, 176 2, 302, 044 26, 718	259,289 2,278,858 45,591	16, 130 78, 793 1, 440	14,703 51,310 2,100	105, 983 510, 976 26, 837	4,274 25,066 881	90,442 1,460,372 8,373	7,046 11,978 2,350	971 10,320 225	150	19,740 130,043 3,235	280,935 2,454,922 64,257	186, 219 969, 484 55, 003
34	241, 476	220,526	11,386	1,812	62,605	3,289	116,817	4,815	1,577		. 18,225	234, 194	114,088
35	618,817	748,382	41,884	85,246	48, 131	3,003	321,350	15,386	1,593	1,872		830,762	506, 409
36 37 38	4, 979, 680 104, 695 60, 664	4, 453, 441 134, 744 37, 464	277,707 1,300	4,146	1,171,747 14,119 9,803		. 1,583,198 109,018 10,013	77,723 1,076 1,378	12, 945 1, 049 329	256, 792	577,869 2,275 10,192	5, 127, 910 158, 001 48, 839	3,498,942 45,922 38,406
39 40 41 42	385,070 549,855 41,090 39,814,446	432,031 453,168 50,742 29,306,440	11,680 33,504 1,020,219	36,660 884	19,386	3,953 2,914	198, 406 22, 299	6,851 4,430 3,230 93,941	59, 576 2, 051 50 193, 699	951 1,000 30,925	130,956 1,979	512,269 590,847 66,059 39,695,077	323, 009 388, 488 40, 846 24, 372, 623

vinous, 1; malt, 1; marble and stone work, 4; mattresses and spring beds, 4; mineral and soda waters, 11; mirrors, 1; moving pictures, 1; mucilage and paste, 2; musical instruments and materials, not specified, 1; needles, pins, and hooks and eyes, 2; olls, not elsewhere specified, 1; optical goods, 5; paper goods, not elsewhere specified, 2; petroleum, refining, 1; photographic apparatus and materials, 10; photo-engraving, 2; pipes, tobacco, 3; pottery, terra-cotta, and fire-clay products, 1; pumps, not including steam pumps, 2; rubber goods, not elsewhere specified, 2; saws, 1; scales and balances, 1; screws, machine, 1; shipbuilding, including boat building, 3; show cases, 1; silk and silk goods, including throwsters, 2; silverware and plated ware, 1; soap, 1; stationery goods, not elsewhere specified, 4; statuary and art goods, 1; stereotyping and electrotyping, 5; stoves and furnaces, including gas and oil stoves, 2; type founding and printing materials, 2; umbrellas and canes, 1; upholstering materials, 1; vault lights and ventilators, 1; vinegar and cider, 1; washing machines and clothes wringers, 1; whips, 2; window shades and fixtures, 1; wirework, including wire rope and cable, 4; woolen, worsted, and felt goods, and wool hats, 1.

TABLE III.-DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES-Continued.

#### SCHENECTADY.

					PERSO	ONS EN	AGED	IN INDU	STRY.			WAGE :	EARNER REST RE	S—NUM PRESEN	BER DI	C. 15,	
	industry.	Num- ber of estab-		Pro- prie-	Sala- ried offi- cers,	Cler	ks.	(8	Wage ea	irners umber).			16 and	d over.	Und	er 16.	Pri- mary
	,	lish- ments	Total.	tors and firm mem- bers.	super- intend- ents, and man- agers.	Male.	Fe- male.	Total.	16 and	Fe- male.	Un- der 16.	Total.	Male.	Fe- male.	Male.	Fe- male.	horse- power.
1 2 3 4 5 6 7	All industries  Bread and other bakery products.  Lumber and timber products  Marble and stone work  Printing and publishing  Tobacco manufactures.  All other industries <sup>1</sup> .	5	17,728 145 101 72 339 83 16,988	120 33 3 3 8 29 44	618 7 4 20 587	1,576 8 7 5 76 1 1,479	2 16 463	14,931 102 84 58 219 53 14,415	90 84 58 176 51 12,700	1,737 11 40 1,686	35 1 3 2 29	17, 429 103 91 68 241 54 16,872	91 91 68 194 52 14,857	2, 036 11 44 1,981	30 1 3 2 24	10	49, 183 39- 108 290 48, 341

<sup>1</sup>All other industries embrace: Boxes, facey and paper, 2; brooms, 3; carriages and wagons and materials, 4; cars and general shop construction and repairs by street-railroad companies, 1; elothing, men's, including shirts, 1; clothing, women's, 1; confectionery, 7; copper, tin, and sheet-iron products, 2; electrical machinery, apparatus, and supplies, 3; flour-mill and gristmill products, 2; foundry and machine-shop products, 2; furnishing goods, men's, 1; gas, illuminating and heating, 1; hammocks, 1; hand

#### SYRACUSE.

			1		i	<del></del>	ı			,							
. 1	All industries	738	21,710	655	668	1,540	699	18,148	14, 565	3,373	210	19,932	16, 019	3, 679	110	124	20,796
2 3 4 5 6	Boxes, fancy and paper. Brass and bronze products. Bread and other bakery products. Candles. Carriages and wagons and materials.	13	174 236 554 317 272	3 9 88 2 17	3 14 11 13	$\begin{array}{c} 1 \\ 2 \\ 31 \\ 17 \\ 9 \end{array}$	3 8 23 10 1	164 203 401 275 245	31 201 326 140 241	106 2 69 105 4	27 6 30	210 201 429 312 225	40 199 349 159 221	136 2 74 119 4	2 3 16	32 3 18	53 164 267 107 293
7 8 9 10	Clothing, men's, including shirts Clothing, women's Confectionery. Cooperage and wooden goods, not elsewhere specified.	77	1,921 311 207 44	74 6 7 9	24 7 8	145 7 9	48 6 11	1,630 285 172 35	663 38 66 35	944 242 105	23 5 1	1,736 303 201 36	706 41 77 36	1,005 257 123	5 3	20 2 1	161 50 177 35
	Copper, tin, and sheet-iron products	9	380	5	13	18	5	339	320	19		271	256	15			298
12 13 14 15 16	Electroplating Food preparations. Foundry and machine-shop products Furniture and refrigerators Gloves and mittens, leather	5 11 72 17 4	49 225 3,093 412 50	12 48 14 5	$\begin{array}{c} 2 \\ 11 \\ 110 \\ 22 \\ 1 \end{array}$	34 130 5	1 11 77 5 2	40 157 2,728 366 42	39 94 2,597 352 21	$\begin{array}{c} 1 \\ 58 \\ 112 \\ 12 \\ 21 \end{array}$	5 19 2	40 171 3,155 408 44	39 102 3,003 393 22	1 63 130 13 22	1 22 2	5	39 320 3,594 500
17 18 19 20 21	Hosiery and knit goods. Jewelry. Liquors, malt. Lumber and timber products Models and patterns, not including paper patterns.	5 9 8 18 6	421 19 343 359 40	7 10 5 12 5	23 14 4	39 11 1	10 5 6 2	383 9 271 316 28	55 9 270 309 <b>2</b> 8	309 1 4	19 3	408 11 260 313 34	59 11 259 306 34	329 1 4	3	17	330 4 1,783 1,059 38
22 23 24 25 26	Patent medicines and compounds and druggists' preparations. Printing and publishing. Salt. Tobacco manufactures. All other industries 1.	24 84 7 80 183	308 1,110 107 571 10,187	14 73 4 89 133	17 34 12 8 309	50 195 1 17 803	87 85 3 290	723 90 454 8,652	59 558 90 331 7,692	81 153 108 917	12 15 43	137 . 762 120 489 9,656	58 588 120 357 8,584	79 162 ° 116 1,024	11 5 34	1  11 14	239 821 274 58 10,125

1 All other industries embrace: Agricultural implements, 2; artificial stone, 8; automobiles, including bodies and parts, 4; awnings, tents, and sails, 3; babbitt metal and solder, 1; baking powders and yeast, 3; baskets, and rattan and willow ware, 3; belting and hose, leather, 1; billiard tables and materials, 2; boots and shoes, including sails, 3; boxes, cigar, 1; brick and tile, 1; brooms, 2; brushes, 1; butter, cheese, and condensed milk, 1; buttons, 1; canning and preserving, 3; carpets, rag, 3; cars and general shop construction and repairs by steem-railroad companies, 2; cars and general shop construction and repairs by street-railroad companies, 1; coles, not elsewhere specified, 4; dairymen's, poulterers', and aplarists' supplies, 1; electrical machinery, apparatus, and supplies, 5; enameling and japanning, 1; engraving, wood, 1; firearms and ammunition, 1; flags, banners, regalia, society badges, and emblems, 1; flavoring extracts, 2; flour-mill and gristmill products, 2; fur goods, 2; furnishing goods, men's, 2; gas and electric fixtures and lamps and reflectors, 1; gas, illuminating and heating, 2; grease and tallow, 2; hair work, 1; hand stamps and stendis and brands, 2; hats, fur-felt, 3; ice, manufactured, 1; instruments, professional and scientific, 2; iron and steel, steel works and rolling mills, 2; iron and steel,

#### TROY.

1	All industries	363	22, 149	352	496	935	346	20,020	8,763	11, 187	70	21, 888	9, 416	12, 397	42	33	18, 887
2 3 4 5 6	Boxes, fancy and paper. Bread and other bakery products. Brick and tile. Brushes. Carriages and wagons and materials.	18 6	373 238 88 622 41	10 33 4 13 5	9 6 3 15	1 19 1 20	5 9 10	348 171 80 564 33	212 158 77 536 33	131 10 27	5 3 3 1	349 170 70 588 34	212 157 67 559 34	1	3 3 3 1	2	255
7	Clothing, men's, including shirts Confectionery Copper, tin, and sheet-iron products Foundry and machine-shop products	$\begin{array}{c} 11 \\ 6 \\ 10 \\ 28 \end{array}$	3,741 40 88 1,028	16 6 9 <b>2</b> 8	66 3 4 54	113 6 5 43	71 1 2 20	3,475 24 68 883	1,021 15 68 878	2, 419 9	35	3,391 24 73 970	996 15 73 965	2,360 9	11	24	1,136 25 25 1,446
11 12 13 14	Furnishing goods, men's. Leather goods. Liquors, malt. Marble and stone work.	· 6	10,370 66 434 49	16 6 6 13	89 4 40 1	329 7 57 2	160 1 2 1	9,776 48 329 32	1,906 40 329 32	8		11,277 54 349 30	2,195 45 349 30	9,078			2,419
15 16 17 18	Pottery, terra-cotta, and fire-clay products. Printing and publishing. Tobacco manufactures. All other industries 1.	3 33 37 118	141 539 361 3,930	26 51 110	10 31 5 153	15 145 23 149	2 25 1 36	114 312 281 3,482	114 305 264 2,775	5 17 686	2 21	122 320 293 3,774	122 313 275 3,009	5			240 439 10,605

¹ All other industries embrace: Awnings, tents, and sails, 6; bags, other than paper, 1; belting and hose, leather, 2; bluing, 2; boxes, cigar, 1; brass and bronze products, 2; canning and preserving, 1; clothing, men's, buttonholes, 9; clothing, women's, 1; coffee and spice, roasting and grinding, 2; cordage and twine and jute and linen goods, 1; dyestuffs and extracts, 1; electrical machinery, apparatus, and supplies, 2; electroplating, 2; engraving, wood, 1; files, 1; flour-mill and gristmill products, 2; food preparations, 2; fur goods, 3; furniture and refrigerators, 1; gas, illuminating and heating, 1; grease and tallow, 1; hair work, 2; hand stamps and stencils and brands, 3; hats and caps, other than felt, straw, and wool, 1; hats, fur-felt, 1; hosiery and knit goods, 4; instruments, professional and scientific, 3; iron and steel, steel works and rolling

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

## CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES-Continued.

#### SCHENECTADY.

				A STATE OF THE STATE OF T	The state of the s	EXPENS	Es.						
	Capital.			Services.	!	Mat	erials.		Miscell	laneous.		Value of products.	Value added by
	-	Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	manu- facture.
1	\$51,815,808	\$37, 402, 739	\$1,305,319	\$1,780,783	\$10,001,932	\$956,909	\$20,995,411	\$44,498	\$181,037	\$9,875	\$2,126,975	\$38, 164, 699	\$16, 212, 379
2 3 4 5 6 7	143, 675 213, 082 129, 159 502, 661 42, 507 50, 784, 724	352, 589 307, 530 100, 844 496, 590 85, 529 36, 059, 657	11,800 7,550 26,454 1,259,515	6,044 6,505 2,466 50,331 800 1,714,637	69, 088 52, 203 27, 636 144, 578 26, 103 9, 682, 324	8,475 2,110 2,032 10,174 680 933,438	254, 314 215, 958 55, 118 162, 673 40, 552 20, 266, 796	5,025 2,040 1,250 11,376 2,136 22,671	1,252 1,305 845 825 9,357 167,453	1, 475 8, 400	8, 391 15, 609 3, 947 88, 704 5, 901 2, 004, 423	403, 404 315, 950 119, 677 550, 406 100, 821 36, 674, 441	140, 615 97, 882 62, 527 377, 559 59, 589 15, 474, 207

stamps and stencils and brands, 1; hosiery and knit goods, 1; liquors, malt, 1; locomotives, not made by railroad companies, 1; mattresses and spring beds, 1; mineral and soda waters, 8; paint and varnish, 2; patent medicines and compounds and druggists' preparations, 4; pottery, terra-cotta, and fire-clay products, 1; slaughtering and meat packing, 4; shoddy, 1; soap, 1; sporting and athletic goods, 1; vinegar and cider, 1; wall plaster, 1.

#### SYRACUSE.

1	\$51,725,850	\$41,304,017	\$1,523,033	\$1,790,225	\$10, 421, 716	\$858, 565	\$20,917,031	\$280,370	\$703,457	\$349,189	\$4,460,431	\$49, 434, 615	\$27,659,019
2 3 4 5 6	121, 812 522, 168 957, 805 925, 197 563, 598	$\begin{array}{c} 147,992\\ 661,621\\ \textbf{1,486,120}\\ 939,911\\ 501,421\\ \end{array}$	4,320 86,120 21,095 35,070	1,996 6,332 41,656 21,862 17,566	48, 561 130, 823 240, 263 103, 968 169, 820	2,310 17,827 27,751 11,684 6,664	84,613 369,294 1,044,519 675,817 261,600	1,440 8,836 27,392 780 2,826	1,319 664 4,675 3,180 2,657		3,433 41,725 78,769 87,550 40,288	163, 525 683, 231 1,831, 698 1,092, 385 592, 763	76,602 296,110 759,428 404,884 324,499
7 8 9 10 11	2,009,777 162,216 208,711 67,011 925,133	3,062,573 381,920 446,277 74,285 1,030,187	39, 255 7, 710 11, 256 35, 290	170,704 6,974 15,118 19,710	693, 609 110, 388 63, 118 20, 619 202, 595	11, 683 3, 691 8, 273 476 8, 628	1,705,865 218,416 320,234 50,841 672,452	31, 513 6, 570 9, 184 340 744	1,414 429 831 238 3,729	244, 439 2, 086	164,091 25,656 18,263 1,771 87,039	3, 460, 803 416, 447 498, 366 95, 434 1, 091, 367	1,743,255 194,340 169,859 44,117 410,287
12 13 14 15 16	25, 432 594, 099 5, 874, 103 699, 238 44, 173	37, 411 845, 262 4, 778, 654 580, 658 57, 395	2,080 26,328 253,581 30,513 2,000	1, 575 49, 923 172, 985 10, 384 780	22,865 70,028 1,518,229 196,877 13,750	799 8,332 167,583 8,642 454	6,798 606,817 2,108,531 277,143 37,057	2,353 1,818 36,448 4,105 720	62 2,985 28,421 2,606 139	84 16,546 300	879 78,947 476,330 50,388 2,195	46, 933 1, 104, 798 5, 691, 526 662, 236 66, 677	39,336 489,649 3,415,412 376,451 29,166
17 18 19 20 21	949, 976 19, 175 3, 940, 300 686, 634 31, 405	799, 625 19, 702 1, 978, 738 910, 688 34, 525	22,367 83,120 21,840 3,900	10, 593 49, 891 14, 590 565	130, 594 7, 067 252, 808 183, 413 19, 773	8,543 203 60,362 12,532 1,027	577, 914 9, 935 619, 284 636, 474 6, 564	125 1,614 6,842 1,417	4,684 40 411,693 3,851 32	27,000 	17,805 843 501,580 29,361 1,247	968, 713 40, 518 2, 459, 703 1, 003, 304 44, 873	382, 256 30, 380 1,780, 057 354, 298 37, 282
22	573, 367	733, 262	31,615	91, 452	63,755	4, 558	234, 558	11,855	1,553	11,468	282,448	849, 879	610,763
23 24 25 26	1, 869, 570 374, 624 554, 514 29, 025, 812	1,566,459 89,388 824,672 19,315,271	57, 486 7, 540 16, 610 723, 937	193, 805 300 14, 896 876, 568	444, 400 41, 830 247, 231 5, 425, 332	26, 804 3, 816 3, 245 452, 678	584,063 9,297 400,120 9,398,825	34,377 9,316 79,755	8,530 6,562 83,575 129,588	41, 283 1, 000 3, 198	175,711 19,043 49,679 2,225,390	2,032,013 88,547 941,302 23,507,574	1,421,146 75,434 537,937 13,656,071

bolts, nuts, washers, and rivets, not made in steel works or rolling mills, 1; iron and steel forgings, 2; lead, bar, pipe, and sheet, 1; leather goods, 5; looking-glass and picture frames, 1; mult, 1; marble and stone work, 10; mattresses and spring beds, 3; millinery and lace goods, 1; mineral and soda waters, 5; mirrors, 1; mucliage and paste, 1; musical instruments and materials, not specified, 2; musical instruments planos and organs and materials, 1; oil, not elsewhere specified, 1; optical goods, 3; paint and varnish, 3; photographic apparatus and materials, 1; photo-engraving, 3; pipes, tobacco, 1; pottery, terra-cotta, and fire-clay products, 3; pumps, not including steam pumps, 3; rubber goods, not elsewhere specified, 1; safes and vaults, 2; show cases, 1; silverware and plated ware, 1; slaughtering and meat packing, 4; soap, 2; sporting and athletic goods, 1; stationery goods, not elsewhere specified, 2; statuary and art goods, 2; steam packing, 1; stereotyping and electrotyping, 2; stoves and furnaces, including gas and oil stoves, 3; sulphuric, nitric, and mixed acids, 1; typewriters and supplies, 4; umbrellas and canes, 1; vinegar and cider, 1; wall plaster, 3; washing machines and clothes wringers, 2; window shades and fixtures, 2; wirework, including wire rope and cable, 2.

#### TROY.

1	\$39,309,202	\$32,090,155	\$1,129,098	\$1,066,555	\$9,406,734	\$641,741	\$14,984,633	\$175,116	\$560,722	\$1,166,573	\$2,958,983	\$37,979,986	\$22,353,612
2 3 4 5 6	241, 324 325, 778 143, 082 654, 667 79, 320	389, 194 647, 912 65, 375 749, 675 53, 286	15,785 9,784 3,400 32,156 2,544	2, 242 15, 400 416 36, 948	154, 943 115, 787 40, 727 273, 523 26, 454	4,080 14,169 9,937 10,039 1,492	175, 090 464, 794 2, 523 334, 480 20, 294	7,928 8,173 4,268	3,359 1,287 2,331 955	1,949	28,682 16,446 7,085 53,981 1,547	434, 429 724, 333 90, 162 959, 266 63, 435	255, 259 245, 370 77, 702 614, 747 41, 649
7 8 9 <b>1</b> 0	6,064,199 37,619 121,195 2,889,460	6,051,165 59,977 98,734 1,613,004	120, 397 2, 340 5, 680 110, 997	173, 444 4, 472 2, 700 58, 874	1, 431, 804 9, 665 34, 136 596, 525	50,395 1,341 1,029 41,558	3, 286, 161 35, 195 49, 047 668, 435	29, 951 2, 386 1, 473 12, 591	8,696 113 930 9,857	553,339	396, 978 4, 465 3, 739 112, 555	6, 976, 241 67, 354 127, 581 1, 952, 971	3,639,685 30,818 77,505 1,242,978
11 12 13 14	11,948,258 120,687 3,796,606 87,247	11,364,127 91,408 1,964,922 73,542	300, 658 3, 049 120, 327 785	405, 572 3, 566 67, 184 1, 580	4, 049, 046 18, 220 242, 729 35, 574	80,726 691 49,599 3,671	4, 699, 541 57, 856 599, 727 26, 928	34,737 1,270 765	32, 125 725 397, 923 478	590, 659	1,171,063 6,031 487,433 3,761	13, 638, 745 111, 774 2, 405, 847 88, 422	8,858,478 53,227 1,756,521 57,823
15 16 17 18	258, 438 1, 005, 763 285, 865 11, 249, 694	229, 503 764, 941 502, 994 7, 370, 396	15, 196 63, 726 5, 252 317, 022	16, 465 104, 984 18, 967 153, 741	52, 236 203, 559 165, 517 1, 956, 289	18,289 11,880 1,073 341,772	83,542 236,503 244,112 4,000,405	18,384 7,238 45,952	2, 203 1, 637 35, 279 62, 380	17, 470 1, 544	41,572 106,798 25,556 491,291	241, 455 969, 212 579, 298 8,549, 461	139, 624 720, 829 334, 113 4, 207, 284

mills, 2; iron and steel forgings, 1; looking-glass and picture frames, 1; lumber and timber products, 2; mats and matting, 1; mattresses and spring beds, 3; millinery and lace goods, 2; mineral and soda waters, 7; models and vaterns, not including paper patterns, 3; mucilage and paste, 1; oil, not elsewhere specified, 1; oilcloth and linoleum, 1; optical goods, 1; paint and varnish, 3; paper and wood pulp, 3; patent medicines and compounds and druggists' preparations, 8; photo-engraving, 2; scales and balances, 2; staughtering and meat packing, 4; springs, steel, car and carriage, 1; stereotyping and electrotyping, 1; stoves and furnaces, including gas and oil stoves, 3; umbrellas and canes, 1; vault lights and ventilators, 1; wirework, including wire rope and cable, 3; wood, turned and carved, 1.

# TABLE III.—DETAIL STATEMENT FOR CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES, AND CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

#### UTICA.

_																	
					PERS	ONS EN	AGED	IN INDU	STRY.			WAGE I OR NEA	EARNER: REST RE	S—NUMI PRESEN	BER DE	C. 15,	
	INDUSTRY AND CITY.	Num- ber of estab-		Pro-	Sala- ried offi-	Cler	ks.	(a	Wage ea verage n	rners umber).			16 and	l over.	Unde	er 16.	Pri- mary
		lish- ments	Total.	tors and firm	cers, super- intend- ents,	i	Fe-		16 and	over.	Un-	Total.		Fe-		Fe-	horse- power.
				mem- bers.	and man- agers.	Male.	male.	Total.	Male.	Fe- male.	der 16.		Male.	male.	Male.	male.	
1	All industries	317	14,634	276	354	636	215	13, 153	7,716	5, 200	237	13, 851	8, 117	5, 488	96	150	01.074
2	Bread and other bakery products. Carriages and wagons and materials.	46	225	49	4	18	19	135	115	18	2	149	127	20	2	100	21,8 <b>74</b> 58
4	Clothing, men's, including shirts.  Foundry and machine-shop products	$\begin{array}{c c} 7 \\ 24 \\ 21 \end{array}$	59 1,634	10 32 13	31 34	145	1 34	47 1,392	47 761	607	24	46 1,529	46 837	666	13	13	70 475
6	Gas and electric fixtures and lamps and	3	1,030	13	34 6	29 3	22 3	932	929 79	2 10	1	947	944	2 10	1		1,231
7	reflectors. Hosiery and knit goods	15	4,694	4	40	52	35	4,563			140					• • • • • •	105
8	Liquors, malt	15 5 9	232	11	15	45		172	1,456 172	2,961	146	4,749 164	1,517 164	3,080	35	117	3,625 794
10	Printing and publishing	97	485	26	34	1 105	25	51 295	50 266	$\frac{1}{22}$	7	42 292	263	1 22		• • • • • •	250
$\frac{11}{12}$	Slaughtering and meat packing Tobacco manufactures.	3 43	23 229	3	1 2	2 15	3	14 161	14 137			15	15				533 55
13	All other industries 1	114	5,856	50 78	184	221	71	5,302	3,690	20 1,559	53 53	175 5,654	149 3,935	$\frac{22}{1,665}$	4 34	20	64 14,614

All other industries embrace: Agricultural implements, 1; artificial stone, 2; automobiles, including bodies and parts, 4; awnings, tents, and sails, 2; baking powders and yeast, 1; belting and hose, leather, 1; boots and shoes, including cut stock and findings, 2; boxes, cigar, 2; boxes, fancy and paper, 3; brass and bronze products, 5; brick and tile, 1; brushes, 1; carpets, rag, 1; cars and general shop construction and repairs by steam-railroad companies, 2; cloth, sponging and refinishing, 1; elothing, women's, 1; coffice, burial cases, and undertakers' goods, 1; confice and wooden goods, not elsewhere specified, 1; copper, tin, and sheet-iron products, 1; cordage and twine and jute and linen goods, 1; cortical goods, including cotton small wares, 3; cutlery and tools, not elsewhere specified, 2; dairy-men's, poulterers', and apiarists' supplies, 2; dyeing and finishing textiles, 2; electrical machinery, apparatus, and supplies, 3; electroplating, 1; emery and other abrasive wheels, 1; engraving and diesinking, 1; fancy articles, not elsewhere specified, 1; fire extinguishers, chemical, 1; flags, banners, regalia, society badges, and emblems, 2;

#### YONKERS.

1	All industries	158	13, 746	150	174	569	142	12, 711	8,304	4.364	40	10 510				1	1
2			. ,		11.2	308	140	,	8,304	4,304	43	13, 518	8,914	4, 559	19	26	16,978
2	Bread and other bakery products.	28	178	29	2	1	21	125	125			129	129				13
4	Copper, tin, and sheet-iron products Foundry and machine-shop products	13	52	17				34	34			38	38				3
	Marble and stone work	10	1,559	9	17	149	38	1,346		89		1,688	1,577	111			1,952
		- 1	44	. 7	3	1		33	33			37	37				50
6	Patent medicines and compounds and	4	137	4	13	31	8	81	36	45		0.1	27	47			0.0
_	druggists' preparations.	-		_		-		0.	50	10		04	31	47			66
7	Printing and publishing.	18	160	14	6	31	6	103	92	8	3	104	93	ا ه	9.		0.1
8	Tobacco manufactures.	17	32	19				13	12	ĭ		17	16	0	4	1	91
9	All other industries 1	61	11,584	51	133	355	69	10.976	6, 715	4.221	40	11, 421	6.987	4.392	17		14 909
								-, , , ,	.,,,,	-,	10	12,721	0, 801	7,002	11	25	14,803

All other industries embrace: Artificial stone, 1; awnings, tents, and sails, 2; blacking and cleansing and polishing preparations, 1; brass and bronze products, 1; brooms, 1; canning and preserving, 2; carpets and rugs, other than rag, 1; carriages and wagons and materials, 5; clothing, men's, including shirts, 1; confectionery, 1; cooperage and wooden goods, not elsewhere specified, 1; electrical machinery, apparatus, and supplies, 2; electroplating, 1; fancy articles, not elsewhere specified, 1; fertilizers, 1; food preparations, 3; furnishing goods, men's, 2; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 1; hats, fur-felt, 1; house-furnishing,

## CITIES OF 10,000 TO 50,000 INHABITANTS-ALL INDUSTRIES COMBINED.

1		1															
1	AMSTERDAM	97	10 770	100	7.40					1	1	ii	1	1	1	1	11
2	ATIRTIEN		10,776	103	140	187	62	10,284	5,553	4,587	144	10,523	5,680	4,689	63	91	11,745
3	AUBURN	140	7,484	130	313	387	157	6,497	4,899	1,520	78	7,304	5, 509	1,711	34	50	15,455
	BATAVIA	59	2,346	51	57	169	62	2,007	1,710	283	14	2,181	1,858	308	15	1 30	
4	BINGHAMTON	266	7,997	239	260	411	264	6, 823	3,923	2,859	41						3,204
5	COHOES	103	8,596	84	143	126	34	8, 209				7,291	4, 192	3,058	12	29	7,742
6 I	CORNING	45	2, 289	48	48				3,883	4,121	205	8,729	4, 127	4,385	159	58	14,291
7 !	CORTLAND	51	2,622			71	48	2,074	1,821	249	4	2,217	1,947	265	5		1,486
8	DUNKIRK	57		46	78	98	44	2,356	2,070	285	1	2,470	2,170	299	1		6,661
9	ELMIRA	3/	3,301	43	105	321	76	2,756	2.547	183	26	2,762	2, 553	183	13	13	5, 194
10	ETH more		4, 425	136	191	336	115	3,647	2,790	835	22	3,805	2,912	869	17	7	6,672
	FULTON	45	3,014	34	75 l	62	44	2,799	1,839	932	28	2,950	1,937	984	15	14	
11	GENEVA	56	1.824	42	76	116	64	1,526	1.193	319	14				10		17,963
12	GLENS FALLS	68	3,048	69	74	66	65	2,774				1,768	1,383	369	1 7	15	2,705
13	GLOVERSVILLE	187	6, 604	221	138	338	166		1,326	1,445	_3	3,145	1,504	1,637	2	2	6,772
14	HORNELL	45	2, 459	40	75			5,741	3,571	2,095	75	6,235	3,876	2,276	48	35	6,163
15	HUDSON	45				130	31	2,183	1,694	482	7	2,325	1.805	513	7		3,349
16	ITHACA	0.1	1, 451	37	30	62	20	1,302	806	470	26	1,349	835	487	14	13	1.515
17	JAMESTOWN	81	1, 105	72	40	77	43	873	772	98	3	886	784	99	ī	2	3.045
18	JOHNSTOWN.	156	7,753	142	217	465	140	6,789	5,513	1,181	95	7,747	6,286	1,351	63	47	11,679
19	Transport	138	3,009	198	91	65	66	2,589	1,719	821	49	2,772	1,840	878	33	21	3,410
19	KINGSTON	99	3,845	93	121	237	113	3, 281	1,896	1.270	115	3, 687	2,132	1, 427	63	65	
20	LITTLE FALLS	55	4,408	58	48	75	16	4, 211	2,493	1,693	25						4,648
21 1	LOCKPORT	100	2,574	90	130	148	68	2,138				4,406	2,607	1,771	10	18	7,742
22	MIDDLETOWN	50	1, 970	62	55	94	26		1,740	. 394	4	2,302	1,874	423	5		14,335
23 I	MOUNT VERNON	i on l	1,492	76				1,733	1,269	459	5	1,805	1,321	479	3	2	2,548
24	NEW ROCHELLE	42	882	39	50	94	65	1,207	985	218	4	1,374	1,121	249	3	1 1	1,590
25	NEWBURGH	104			34	34	40	735	625	95	15	807	687	104	9	7	620
26	NIAGARA FALLS	104	4,966	96	128	281	117	4,344	2,845	1,482	17	4, 425	2,898	1,510	10	1 7	4.902
27	NORTH TONAWANDA		7, 214	117	227	572	209	6,089	5,212	853	$\begin{vmatrix} \tilde{24} \end{vmatrix}$	6,736	5,768	942	9	17	95,792
28	Och Director of	81	3,146	56	101	128	37	2,824	2,423	373	28	3, 151	2,705	416	22	8	15.888
	OGDENSBURG		1,463	61	52	69	22	1,259	811	405	43	1,440	928	463	14	35	3,404
29	OLEAN		2,671	42	109	203	58	2, 259	2,092	135	32						
30	Ossining	34	477	24	23	58	16	356	262	92		2,380	2,202	144	16	18	5,202
31	Oswego	81	4, 247	58	113	207	52				2	403	297	104	2		986
32	PEEKSKILL	52	2,384	. 46	70			3,817	2,649	1,141	27	4,316	2,993	1,291	8	24	9,753
33	PLATTSBURG	41	1, 243			180	33	2,055	1,591	456	8	2,219	1,818	493		8	3,133
34	PORT CHESTER.			33	48	64	49	1,049	713	336		1,079	734	345		1 1	5,739
35	POUGHKEEPSIE	34	2,334	30	32	106	44	2.122	1.483	611	28	2,237	1,564	643	20	10	3,175
	RENSSELAER	111	4,037	102	139	393	104	3,299	2,184	1,092	23	3,503	2,319	1,158	14	12	3.326
	ROME	33	842	28	21	21	9	763	481	278	4	852	538	310	4	12	1,263
		119	3,995	112	87	114	49	3,633	3, 113	487	33	4 055					
38	SARATOGA SPRINGS	39	1,065	30	44	109	49	833	490	322	21	4,055	3,475	542	14	24	8,844
	WATERTOWN	107	3,834	87	149	241	66					956	562	370	20	4	1,718
40	WATERVLIET	36	880	33	33			3,291	2,834	421	36	3,884	3,344	498	38	4	13,543
41	WHITE PLAINS	33	333	28	17	44	17	753	455	272	26	856	517	309	30		904
		00.	- 000 H	40 1	17.1	25	14	249	246	3	1	280	277	3	1		404

TOTALS FOR ALL INDUSTRIES IN CITIES OF 10,000 BUT LESS THAN 50,000 INHABITANTS: 1909—Continued.

# CITIES OF 50,000 INHABITANTS OR MORE, BY INDUSTRIES—Continued.

				The second secon		EXPENS	ES.						
	Capital.			Services.			erials.		Miscel	laneous.		Value of products.	Value added by manu-
		Total.	Officials.	Clerks.	Wage earners.	Fuel and rent of power.	Other.	Rent of factory.	Taxes, including internal revenue.	Contract work.	Other.	products.	facture.
1	\$27,795,752	\$27,331,991	\$768,063	\$781, 732	35,963,507	\$500, 949	\$16, 144, 975	\$104,112	\$474,506	\$321,292	\$2, 272, 855	\$31,199,261	\$14,553,337
2 3 4 5	336, 352 75, 953 2, 019, 470 2, 231, 958	474, 911 54, 644 2, 883, 855 2, 033, 075	2,192 988 69,614 73,324	19,653 416 187,590 40,721	78,726 28,525 650,510 495,550	10,778 1,613 13,581 66,815	333,745 19,490 1,597,109 1,230,919	10,844 1,192 29,192 6,558	1,536 293 8,481 15,429	92,076	17, 437 2, 127 235, 702 103, 759	540,753 67,100 3,078,593 2,192,118	196,230 45,997 1,467,903 894,384
6	251, 865	178,948	12,355	2,048	45,960	4,067	94,227	1,196	712		18,383	183, 908	85,614
7 8 9	5,907,564 1,766,067 153,974	7,187,921 1,207,696 144,136	121,825 45,200 2,300	112,741 45,443 1,124	1,751,318 127,235 39,832	86, 417 23, 504 2, 750	4,518,695 327,916 87,946	13,885 372	32,535 232,673 724	12,037	538,468 405,725 9,088	8,053,844 1,393,056 166,380	3,448,732 1,041,636 75,684
10 11 12 13	831, 979 111, 728 301, 905 13, 806, 937	711, 327 157, 228 383, 026 11, 915, 224	70, 188 1, 040 3, 600 365, 437	96, 468 2, 017 17, 889 255, 622	185,724 10,608 85,810 2,463,709	9, 638 1, 238 2, 189 278, 359	212,638 139,720 166,600 7,415,970	7,923 4,803 28,147	5,885 833 60,188 115,217	12,317 204,862	110,546 1,772 41,947 787,901	861,009 166,759 453,367 14,042,374	638,733 25,801 284,578 6,348,045

flavoring extracts, 1; flour-mill and gristmill products, 2; food preparations, 3; fur goods, 2; furnishing goods, men's, 1; furniture and refrigerators, 3; gas, illuminating and heating, 1; glass, cutting, staining, and ornamenting, 2; hats and caps, other than felt; straw, and wool, 2; jewelry, 1; lead, bar, pipe, and sheet, 1; leather goods, 2; lumber and timber products, 7; mattresses and spring beds, 2; millinery and lace goods, 1; mineral and soda waters, 4; models and patterns, not including paper patterns, 1; muclage and paste, 1; musical instruments, pianos and organs and materials, 2; paint and varnish, 1; paper and wood pulp, 2; paper patterns, 1; patent medicines and compounds and druggists' preparations, 1; soap, 1; sporting and athletic goods, 2; stoves and furnaces, including gas and oil stoves, 2; wall plaster, 2; washing machines and clothes wringers, 1; waste, 1; wirework, including wire rope and cable, 1; woolen, worsted, and felt goods, and wool hats, 1.

#### YONKERS.

1	\$58, 768, 555	\$54, 491, 098	\$581,607	\$716,773	\$6,726,118	\$656, 852	\$42,545,067	\$60,723	\$179, 625	\$33,489	\$2,990,844	\$59,333,865	\$16, 131, 946
2 3 4 5	137, 799 64, 670 4, 266, 291 92, 600	469, 249 57, 092 2, 372, 179 72, 160	2,800 71,501 3,040	10,565 740 155,100 200	88,743 26,312 924,953 33,197	8,920 871 19,528 748	317,983 24,002 1,037,925 32,023	10,337 2,326 2,761 50	995 110 18,419 667	300	28,906 $2,731$ $141,992$ $1,935$	598, 470 74, 516 2, 836, 522 89, 571	271,567 49,643 1,779,069 56,800
6	1,931,521	470,239	60, 305	68, 369	36, 393	1,659	188,563	8,300	949		105,701	832,501	642,279
7 8 9	347,822 21,424 51,906,428	235, 465 24, 266 50, 790, 448	12,360 431,601	30, 842 450, 957	74,063 6,709 5,535,748	4, 461 319 620, 346	63,199 12,128 40,869,244	7,292 1,788 27,869	861 2,052 155,572	22,035 11,154	$\begin{array}{c} 20,352 \\ 1,270 \\ 2,687,957 \end{array}$	280, 415 32, 827 54, 589, 043	212, 755 20, 380 13, 099, 453

goods, not elsewhere specified, 1; ice, manufactured, 2; liquors, malt, 1; lumber and timber products, 3; mattresses and spring beds, 2; millinery and lace goods, 2; mineral and soda waters, 6; musical instruments, pianos and organs and materials, 1; photo-engraving, 1; rubber goods, not elsewhere specified, 2; shipbuilding, including boat building, 1; silk and silk goods, including throwsters, 1; slaughtering and meat packing, 1; sugar, refining, not including beet sugar, 2; surgical appliances and artificial limbs, 1; toys and games, 1; wirework, including wire rope and cable, 2; wood, turned and carved, 1.

### CITIES OF 10,000 TO 50,000 INHABITANTS-ALL INDUSTRIES COMBINED.

		1											
1	\$18,161,900	\$19,799,692	\$315,168	\$229,752	\$4,823,295	\$289, 262	\$12,905,598	\$136,171	\$78,760	\$987	\$1,020,699	\$22,449,057	\$9, 254, 197
2	23,742,528	13,621,467	416,109	284, 466	3,156,525	282,548	8,654,882	20,395	128, 909	21,080	656, 553	15,961,022	7,023,592
3	5,697,082	3,852,970	108, 276	240,235	959,869	42,097	1,738,933	6,639	24, 265	265, 325	467, 331	4,400,774	2,619,744
4	14,214,219	15,024,831	460,999	600,516	3,083,673	176, 816	8,548,803	123,999	446, 319	23, 280	1,560,426	17,114,214	8, 388, 595
5	13,116,581	12,731,902	313, 234	125, 562	3,387,460	312,347	7,863,773	35,124	128,862	4,848	560,692	14,830,722	6,654,602
6	3,215,502	2,505,426	111,609	79,090	1,037,605	146,711	717, 206	14,055	11,734	642	386,774	3,050,410	2, 186, 493
7	5,459,838	5, 456, 536	162, 457	121,945	1,301,878	202,604	3,371,197	7,017	12,827	2,386	274, 225	6,394,624	2,820,823
8	7,079,306	5,763,209	252,781	296, 705	1,414,079	167, 548	3,040,476	7,282	58, 348	7,135	518, 855	6,575,664	3, 367, 640
9	10,829,586	7.147,722	302,532	432,757	1,882,411	116, 489	3,473,953	23,483	112, 381	46,644	757,072	8,067,208	4,476,766
10	11,032,756	7, 215, 777	184,117	65, 513	1,297,683	214,591	4,641,938	11,986	38,513	1,111	760, 325	7,867,114	3,010,585
11	4,103,931	4,743,183	157,765	149, 157	792,400	62,470	2,928,501	6,947	19,849	180, 374	445,720	5,153,925	2, 162, 954
12	6,226,320	4, 248, 316	159,037	129, 573	1,222,721	234, 924	2,074,161	11,687	35, 823	11.079	369, 311	4,876,786	2,567,701
13	11,968,536	10 700 004			2,791,272	146, 820	7,915,046	41,731	32, 126	686, 331	460,942	14,170,682	6, 108, 816
14	11,900,000	12,766,604	251,599	440,737	1,048,467	70,801	1,807,022	5,013	43,608	35, 293	121,891	3,647,630	1,769,807
15	2,866,071	3,370,836	128,571	110, 170					63,665	50, 255	213,712	3,506,504	1,443,230
	2,773,847	3,048,765	68, 209	58,716	576,179	47,509	2,015,765	5,010	15,957	22, 827	134, 256	1,919,968	1,080,338
16	2,978,316	1,612,568	60,764	82,901	439,344	69,178	770,452	16,889		163, 839		14,720,240	7, 336, 372
17	16,075,039	13,149,248	420,911	574, 255	3,305,245	173, 278	7,210,590	28,895	69,698		1,202,537 $251,800$	6,573,528	2,648,791
18	5,203,894	5,828,195	101,992	74, 259	1,175,355	63,452	3,861,285	23,422	15,137	261,493			3,404,042
19	5,924,479	5,252,301	234,128	177,320	1,366,031	129,697	2,451,999	17,962	236, 554	97,676	540,934	5,985,738	0,404,044
20	6,989,615	7,652,592	162,535	69,064	1,964,602	120,983	4,801,605	10,583	24,072	23,681	475, 467	8,460,408	3,537,820
21	10,226,721	7,485,583	260,777	163,910	1,129,661	243,858	5,106,381	32,901	49, 425	35, 393	463, 277	8,168,450	2, 818, 211
22	3,695,052	4,222,073	88,114	92,796	902,113	71,107	2,834,358	21,939	48,319		163, 327	4,658,240	1,752,775
23	3,201,654	2,618,139	98,266	110,741	801,511	48,374	1,237,183	26,899	8,496	10, 225	276, 444	3,376,415	2,090,858
24	1,377,185	1,530,439	51,733	61,385	481,713	20,775	793,365	18,570	5,734	2,000	95, 164	1,668,724	854,584
25	8,920,282	8,946,191	357,059	309,704	2,180,118	174,574	4,668,651	30,330	71,628	320,048	834,079	9,928,146	5,084,921
26	37, 239, 454	22,312,600	670,362	770, 225	3,588,127	1,925,111	12,346,115	78,828	167,590	28,900	2,737,342	28,651,913	14,380,687
27	8, 273, 779	8,860,817	180,472	119,790	1,582,268	906,551	5,482,657	21,076	40, 211	65,666	462, 126	9,599,776	3,210,568
28	2,616,986	4,539,118	84,146	63,462	517,111	37,089	3,470,958	13,744	19,535	130,561	202,512	4,947,976	1,439,929
29	8,951,517	9,897,955	159,992	197,830	1,338,570	257, 169	7,470,347	2,892	74,955	497	395, 703	10,005,443	2,277,927
30	2,062,912	1,021,763	75,016	49,510	243,100	29,488	436,722	17,143	11,968	1,801	157,015	1,328,925	862,715
31	11,249,446	9,578,433	225, 267	227,760	1,813,289	188,141	5,914,857	24,046	82,731	12,360	1,089,982	10,412,888	4,309,890
32	3,828,040	7,475,852	169,338	171,098	1,240,902	140,700	2,801,339	103,560	2,455,305	8, 427	385,183	7,888,183	4,946,144
33	2,694,406	2,720,467	84, 164	74,162	512,983	57,300	1,688,039	6,523	15,136	4,564	277, 596	3,137,523	1,392,184
34	5,417,086	6,043,083	105,618	130,883	1,039,607	82,023	4,471,553	5,450	7,376	1,560	199,013	6,243,051	1,689,475
35	10,280,731	6,978,427	343,887	502,928	1,658,732	128,644	3,738,213	27,885	48,034	18,219	511,885	9,150,964	5,284,107
36	2,146,115	2,016,312	120,778	40,565	364, 182	39,408	1,126,922	771	8,787	536	314, 363	2,296,089	1,129,759
37	8,902,948	13,228,048	221,142	134,320	1,850,974	277,517	9,925,970	15,960	54, 159	4,562	743, 444	14,423,437	4,219,950
38	4,349,519	1,889,250	108,800	142,008	464,078	45,591	837,355	7,036	13,676	2,934	267,772	2, 336, 579	1,453,633
39	18,662,066	6,932,124	350, 615	241,878	1,798,009	171,144	3,649,761	44,619	59,580	3,407	613, 111	8,527,416	4,706,511
40	1,422,697	1,468,330	64, 998	61,894	301,924	19,562	796,805	9,890	4,983	5,200	203,074	1,668,579	852,212
41	2,095,331	684,740		26,055	180,014	31,797	339,921	11,921	9,303	5,870	52,042	815,789	444,071
2.1	2,000,001	084,740	21,011	20,000	100,014	01,101	1 300,022	1 -1,021	1,,,,,,	3,010	1 -2,015	320,100	1

## CHAPTER 5.

# MINES AND QUARRIES.

Introduction.—The present chapter contains a complete statement of the statistics of all mining industries, which include all mines, quarries, and wells, in the state of New York for the year 1909, as shown by the Thirteenth Census.

A brief explanation of the scope of the census of mining industries and of the terms used, in so far as the usage differs from that followed in the census of manufactures, is presented below in order to prevent any misinterpretation of the statistics.

The explanations here given show the usage of the mining census generally, though some of the special rules have obviously no relation to particular states in which the industries referred to do not exist.

Scope of census.—The Thirteenth Census covered all classes of mines, quarries, and petroleum and gas wells that were in operation during any portion of the year 1909, both those which were producing and those whose operations were confined to development work. Mines, quarries, or wells that were idle during the entire year 1909 were omitted from the canvass. The following operations were likewise omitted from the canvass: Prospecting; the digging or dredging of sand and gravel for the construction of roads and for building operations; the production of mineral waters; and the operation of small bituminous coal banks producing less than 1,000 tons annually.

Where the mineral products are not marketed in their crude condition, but are dressed or washed at the mine or quarry, the statistics of mining cover the entire work of obtaining the crude material and its preparation for the market.

Period covered.—The returns cover the calendar year 1909, or the business year which corresponds most nearly to that calendar year. The statistics cover a year's operations, except for enterprises which began or discontinued business during the year.

Number of operators.—As a rule, the unit of enumeration was the "operator." Every individual, firm, or corporation was required to furnish one report for all mines, quarries, or wells which were operated under the same management or for which one set of books of account was kept. Separate reports were obtained for all properties operated in different states, even where they were owned by the same operator. Likewise, where the operations of one individual, firm, or corporation covered more than one class of mines and quarries, such as coal, iron, limestone, etc., a separate report was received for each industry.

Number of mines, quarries, and wells.—This figure represents the total number of mines and quarries in operation or in the course of development at any time during the calendar year 1909, or the business year that corresponds most nearly to that calendar year, and the number of completed petroleum and natural gas wells in operation on December 31, 1909.

In most mining and quarrying industries the number of mines or quarries varies but little from the number of operators.

Expenses of operation and development.—A certain amount of development work is incidental to the operation of every mine. The expenses reported for producing mines include the cost both of operation and of development work which was done in connection with operation.

Wages.—The amount shown as wages includes only the compensation of regular wage earners hired by the day, week, or month, or under the piecework system.

Supplies and materials.—This item includes the cost of lumber and timber used for repairs, mine supports, track ties, etc.; iron and steel for blacksmithing; rails, frogs, sleepers, etc., for tracks and repairs; renewals of tools and machinery and materials for repairs; and supplies, explosives, oil, etc., as well as the cost of fuel and the rent of power. The schedule called only for the cost of such supplies and materials as had been used during the year covered by the report. Accurate figures, however, could be furnished only in those cases where the operators kept an account of supplies and materials used, or had an inventory made of all in stock at the beginning and at the end of the year. Such a system of accounting is far from general among mine operators, and there is reason to believe that in many cases the reported cost of supplies and materials covered all purchased during the year rather than those used during the year. The crude product of some operators was purchased by others for further dressing or refining; the cost of such materials is shown separately in the general table.

Capital.—The census schedule required every operator to state the total amount of capital invested in the enterprise on the last day of the business year reported, as shown by his books. There is, however, a great diversity in the methods of bookkeeping in use by different operators. As a result, the statistics for capital lack uniformity. Some of the figures reported apparently represent capital stock at face value; others include large investments in mineral lands which are not at present being actively mined, but are held in reserve; still others may include expenditures for unproductive mining ventures in no way related to the operations carried on during the census year.

Persons engaged in mining industries.—The statistics of the number of operators and officials, clerks, and wage earners, are based on the returns for December 15, or the nearest representative day. The reported number of wage earners includes overseers and foremen performing work similar to that of the men over whom they have charge; those whose duties are wholly supervisory are classed as superintendents and managers. Because of the common practice of shutting down mines at frequent intervals, it is impossible to ascertain with any satisfactory degree of accuracy the average number of employees—that is, the number who, if continuously employed, would be required to produce the actual output of the year.

Value of products.—Statistics of the value of mineral products were obtained by the Bureau of the Census in cooperation with the United States Geological Survey, but the two bureaus follow different methods in presenting these statistics. The Geological Survey shows separately the value of each mineral product, whereas the Bureau of the Census presents the value of products of each mining industry. The value of products given for a mining industry often includes the value of some products not covered by the industry designation. The crude product of metalliferous mines may include varying combinations of metals, such as gold, silver, copper, lead, zinc, and iron. Similarly, the total value of all products of the granite quarries is not identical with the value of the total output of granite, but may include the value of some marble or other stone quarried in connection with the principal product.

The value of products for 1909 in most cases represents the value of the products marketed during that year, not the value of those mined during that year.

## MINING IN NEW YORK.

Summary.—Statistics for all mining enterprises in the state of New York are presented in Table 7, which gives statistics for all industries combined and for producing enterprises separately, in all cases where the statistics could be given without disclosing the operations of an individual enterprise. Statistics for nonproducing enterprises are also given separately from producing enterprises.

The gross value of the products of mining industries in New York in 1909 amounted to \$13,334,975. Deducting from this amount, \$65,656, the value of natural gas produced by some operators and sold to others, who sold it again, leaves \$13,269,319 as the net value of the products. Of this amount stone quarries producing limestone, bluestone, traprock, sandstone, granite, marble, and slate, contributed \$5,719,205, or 43.1 per cent. Iron-ore mining, the most important mining industry, reported products valued at \$3,095,-023. In the production of graphite, the expenses of operation and development exceeded the value of the products. This was due in part to unprofitable mining ventures and in part to expenditures for development work resulting in permanent improvements to the mining properties. The same conditions exist for the total of the six industries combined under the heading of "All other," in Table 7.

Character of organization.—Table 1 classifies the producing mining operations of the state under form of organization, distinguishing corporations from individual owners and firms, while Table 2 gives further details for incorporated enterprises distinguished from those which are unincorporated. Out of a total of 1,351 operators of producing enterprises in all industries, 174, or 12.9 per cent, were corporations. These corporations reported 69.1 per cent of the total value of products and employed 70.3 per cent of all wage earners. In the iron-ore industry all enterprises, except one, were conducted by corporations.

Table 1	PRODUCING ENTERPRISES: 1909											
INDUSTRY AND CHARACTER OF ORGANIZATION.	Num-	Num-	Value of pr	oducts.	dis	Per cent tributio	on.					
ORGANIZATION.	ber of oper- ators.	ber of wage earners.	Total.	Per oper- ator.	Operators.	Wage earn- ers.	Value of prod- ucts.					
All industries Individual Firm Corporation Other	587 578	11,303 1,960 1,379 7,944 20	\$13,334,975 1,714,117 2,381,883 9,210,581 28,394	\$9,870 2,920 4,121 52,934 2,366	100. 0 43. 4 42. 8 12. 9 0. 9	100.0 17.3 12.2 70.3 0.2	100.0 12.9 17.9 69.1 0.2					
Petroleum and natural gas Individual. Firm. Corporation. Other.	708 227 423 49 9	374 74 140 151 9	2,668,996 534,507 1,190,238 921,470 22,781	3,770 2,355 2,814 18,806 2,531	100.0 32.1 59.7 6.9 1.3	100.0 19.8 37.4 40.4 2.4	100. 0 20. 0 44. 6 34. 5 0. 9					
Limestone Individual Firm Corporation	127 73 14 40	3, 104 616 350 2, 138	2,656,142 391,067 309,357 1,955,718	20, 915 5, 357 22, 098 48, 893	100.0 57.5 11.0 31.5	100.0 19.8 11.3 68.9	100. 0 14. 7 11. 6 73. 6					

Table 2	Incorporated.	Unincorporated.
Number of operators. Number of mines and quarries	174 161	1,177
Number of wells	1,696	9,64
Proprietors and firm members, total		2,29
Salaried employees:	• • • • • • • • • • • • • • • • • • • •	66.
Officers of corporations Superintendents and managers	114	
Wage earners, Dec. 15, 1909, or nearest representative	163 242	70
day	7,944	3,359
Capital	<b>\$</b> 30,994,957	\$14, 176, 275
Expenses of operation and development	7,344,419	2,643,349
Officers of corporations. Superintendents and managers.	213,396	
Cierks and other salaried employees	227, 230 193, 552	55,150 18,533
wages	3,446,176	1,271,419
royardes and rent of mines	276, 617	188,837
Taxes Supplies and miscellaneous expenses.	130,784 $2,791,170$	43,207
Cost of natural gas purchased and resold	65, 494	1,068,633
Value of products	9, 210, 581	4, 124, 334

Size of enterprises.—In Table 3 the producing mining enterprises are classified according to the number of wage earners employed per enterprise or operating unit. Only 28 enterprises, or 2.1 per cent of the total number, employed over 100 wage earners each. These enterprises, however, employed more than one-half of all wage earners. In the production of petroleum and natural gas the average number of wage earners per enterprise was less than 1. This was due to the fact that 90 enterprises were operated without any wage earners at all and 464 were operated by contract work or by wage earners who gave only a part of their time to the enterprise.

Table 3	PRO	DUCING E	NTERPRISES	: 1909
INDUSTRY AND WAGE EARNERS PER	Ente	erprises.	Wage e	arners.
ENTERPRISE.	Num- ber.	Per cent distri- bution.	Number.	Per cent distri- bution,
All industries No wage earners. Contract work and part-time employees 1 to 5. 6 to 20. 21 to 50. 51 to 100. Over 100.	1,351 189 471 451 131 65 16 28	100. 0 14. 0 34. 9 33. 4 9. 7 4. 8 1. 2 2. 1	941 11,346 2,088 1,171 5,757	8,3 11,9 18,5 10,4 50,9
Iron. 6 to 50 Over 50	14 5 9	100. 0 35. 7 64. 3	2,542 144 2,398	100.0 5.7 94.3
Petroleum and natural gas.  No wage earners.  Contract work and part-time employees.  1 to 5.  Over 5.	708 90 464 141 13	100. 0 12. 7 65. 5 19. 9 1. 8	374 226 148	100, <b>0</b> 60, 4 39, 6
Limestone	127 5 3 53 34 20 12	100. 0 3. 9 2. 4 41. 7 26. 8 15. 7 9. 4	3,104 157 346 620 1,981	5, 1 11, 1 20, 0 63, 8

Persons employed in mining.—Of the 14,230 persons employed in producing mines December 15, 1909, or the nearest representative day, 11,303 were wage earners, 633 were salaried employees, and 2,294 were pro-

prietors and firm members. Of the proprietors and firm members 663 performed manual labor in or about the mines. The relatively small number of wage earners in the mining industry working underground, 18 per cent, is explained by the large number employed in stone quarries.

Prevailing hours of labor.—In Table 4 all producing enterprises, except those employing no wage earners and those operated exclusively by contract work and parttime employees, have been classified according to the prevailing hours of labor per day in each enterprise or operating unit. Petroleum and natural gas wells are not included in this table, because the lack of regularity in the number of hours worked per day in a large number  $of\ enterprises\ rendered\ such\ classification\ impracticable.$ The table shows the percentage of the total number of enterprises falling in each group, and also a per cent distribution in which each enterprise has been given a weight according to the total number of wage earners employed December 15,1909, or the nearest representative day. It should be borne in mind that this latter distribution does not show the exact proportion of the total number of wage earners working the specified number of hours per day, since, in some cases, a part of the employees worked a greater or less number of hours than those generally prevailing in the enterprise. In 85.1 per cent of all enterprises weighted according to the number of wage earners, a day of 10 hours prevailed.

Table 4	PRODUCI	NG ENTERPE	ISES: 1909	
	Enter	rprises.	Per cent distribu-	
INDUSTRY AND HOURS PER DAY.	Number.	Per cent distribu- tion.	tion of enterprises weighted according to number of wage earners.	
All industries 8 hours and under 9 hours 10 hours 11 hours 12 hours	1 <b>537</b> 34 55 446 1 1	100. 0 6. 3 10. 2 83. 1 0. 2 0. 2	100. 0 6. 7 7. 9 85. 1 0. 3 0. 1	
Iron	14 14	100.0 100.0	100. 0 100. 0	
Limestone. 8 hours. 9 hours. 10 hours.	22	100. 0 18. 3 14. 2 67. 5	100. 0 16. 8 9. 1 74. 3	

 $<sup>^{\</sup>rm 1}$  Exclusive of petroleum and natural gas, and of 1 slate quarry, for which number of hours was not reported.

Engines and power.—As shown by Table 5, the aggregate horsepower employed in the producing enterprises was 101,759, of which 91,076 was developed by engines and water wheels owned by the enterprises

using them, and 10,683 horsepower by electric motors operated by purchased current.

Table 5	PR	ODUCING	ENTERPR	rses: 1909	)
CHARACTER OF POWER.	Total.	· Iron.	Petro- leum and natural gas.	Lime- stone.	All other.
Primary power: Aggregate horsepower	101, 759	22, 520	41,797	16,980	20, 462
Owned	91,076	18,220	41,797	14.277	16,782
Steam engines— Number Horsepower Gas or gasoline engines—	$2,283 \\ 68,594$	$\begin{array}{c} 124 \\ 17,223 \end{array}$	1,761 25,378	$182 \\ 14,139$	216 $11,854$
Number	$1,216 \\ 18,213$	6 747	$1,173 \\ 16,419$	4 24	33 1,023
Number	38 4,269	2 250		114	32 3,905
purchased current— Number Horsepower	147 10,683	42 4,300		36 2,703	69 3,680
Electric motors run by current generated by enterprise using: Number Horsepower	81 2,319	30 966		12 211	39 1,142

Comparison of mining industries: 1902–1909.—In order to make comparisons between 1909 and 1902, it is necessary to omit from 1902 figures, as given in the mines and quarries report for that year, statistics for the production of cement and for the operation of enterprises operated by governmental institutions, and to add to the 1909 statistics, figures for the production of lime, which were omitted from the census of mines and quarries in 1909. Such items as are comparable for the two years are presented in Table 6.

Table 6	PRODUCIN	ES		
	1909	1902	Per cent of in- crease.	
Wages and salaries. Supplies and materials. Royalties and rent of mines. Contract work. Value of products. Primary horsepower	\$5,693,286 \$2,647,861 \$468,646 1 \$374,435 \$13,849,494 102,540	\$4,517,851 \$1,627,489 \$357,637 \$350,663 \$9,682,457 63,953	26. 0 62. 7 31. 0 6. 8 43. 0 60. 3	

<sup>1</sup> Exclusive of amount paid to miners compensated by a share of the product and also of the wages of part-time employees for the petroleum and natural gas industry, which are included under "Contract work," in Table 7.

Duplication between manufactures and mining.—In a number of industries some of the operators subjected the products to certain manufacturing processes on the premises before marketing. These enterprises have been included in the statistics both for manufactures and for mining. As a result of this fact the combined value of products for the manufacturing and mining industries in New York involves a duplication of \$10,312,289.

#### DETAILED STATISTICS FOR

-	Table 7			PRODUCIN	NG MINES, QUAR	RIES, AND WE	LLS.	
		Aggregate.	Total.	Iron.	Petroleum and natural gas.	Limestone.	Bluestone.	Traprock.
$\begin{array}{c} 1 \\ 2 \\ 3 \end{array}$	Number of operators. Number of mines, quarries, and wells Capital <sup>2</sup> .	1, 356 12, 097 \$45, 333, 052	1,351 12,094 \$45,171,232	14 19 \$12,613,215	708 11,342 \$14,903,354	127 140 \$4,169,316	350 413 \$702,033	8 8 \$1,568,929
4	Expenses of operation and development	\$10,004,532	\$9,987,768	\$2,118,267	\$1,558,691	\$2, 111, 652	\$691,590	\$588,657
5	Salaried officers of corporations, superintendents, and managers.	<b>\$497,</b> 576	<b>\$4</b> 95,776	\$81,987	\$61,726	\$119,576	\$28, 292	\$20,048
6	Clerks and other salaried employees	\$212,089 \$4,723,315	\$212,089 \$4,717,595	\$57,223 \$1,001,025	\$26,315 \$236,943	\$39,938 \$1,230,926	\$6,246 \$441,053	\$13,647 \$272,785
8	Supplies Cost of natural gas purchased and resold	\$1,889,747 \$65,656	\$1,886,937 \$65,656	\$556,997	\$420,408 \$65,656	\$295,000	\$65,939	\$88,790
10 11 12 13 14	Miscellaneous— Supplies. Cost of natural gas purchased and resold. Fuel and rent of power. Royalties and rent of mines. Taxes. Contract work. Rent of offices and other sundry expenses.	\$585, 161 \$465, 458 \$174, 389 \$516, 542 \$874, 599	\$585, 161 \$465, 454 \$173, 989 \$513, 042 \$872, 069	\$199, 817 \$62, 668 \$51, 491 \$20, 632 \$86, 427	\$8,689 \$195,802 \$64,657 \$405,184 \$73,311	\$146, 564 \$28, 941 \$18, 934 \$33, 418 \$198, 355	\$17,517 \$30,642 \$1,987 \$4,963 \$94,951	\$33,665 \$70,829 \$7,666 \$81,227
15	Value of products	\$13,334,975	\$13,334,975	\$3,095,023	\$2,668,996	\$2,656,142	\$910,054	\$755,128
16 17 18 19	Persons engaged in industry Proprietors and officials Proprietors and firm members	14, 253 2, 651 2, 303	14, 230 2, 641 2, 294	2,637 34 1	2,087 1,657 1,582	3,346 187 105	1,657 503 474	800 10 1
20	Number performing manual labor. Salaried officers of corporations.	665 114	663 114	10	179	44 19	381	
20 21 22 23 24 25 26 27 28 29	Persons engaged in industry.  Proprietors and officials.  Proprietors and firm members.  Number performing manual labor.  Salaried officers of corporations.  Superintendents and managers. Clerks and other salaried employees.  Wage earners, Dec. 15, 1909, or nearest representative day.  Above ground.  Below ground.  Men 16 years of age and over.  Engineers, firemen, mechanics, etc.  Above ground.	234 286 11,316 9,282	233 286 11,303 9,269	23 61 2,542 1,049	41 56 374 374	63 55 3,104	$\begin{array}{c} 22 \\ 11 \\ 1,143 \end{array}$	8 12 778
25 26	Below ground. Men 16 years of age and over.	2,034 11,308	2,034 11,295	1,493 2,541	374	3,104	1,143 $1,143$	778
28 29	Above ground.  Below ground.	1,340 1,298	1,336 1,294	356 322	291 291	305 305	50 50	46 46
30	Miners, miners' helpers, quarrymen, and stone- cutters.	6,317	6,312	1,400		1,694	815	394
31 32	Above ground	4,687 1,630	4,682 1,630	158 1,242		1,694	815	394
33 34 35	Above ground.  All other employees. Above ground.  Below ground.  Boys under 16 years of age 3	3, 651 3, 290 361	3,647 3,286 361	785 569 216	83 83	1,100 1,100	278 278	336 336
<b>3</b> 6		8	8	1		5		·····ż
37 38	Number of wage earners employed on the 15th day of each month: January. February. March.	5, 932	5,922	1,885	346	1,428	485	116
39 40	March April	6,081 7,057 8,844	6,071 7,047	1,922 1,909	334 341	1,457 1,657	522 605	81 633
$\frac{41}{42}$	April. May. June July. August. September. October	10, 037 10, 567	8,834 10,027 10,557	1,832 1,792	338 384	2,501 2,988	973 1,187	699 747
43 44	July August	10,904 11,223	10,894 11,213	1,884 2,008 2,175	382 383 370	3,242 3,369	1,224 1,166	712 786
45 46 47		11,279 11,068	11,269 11,053	2,333 2,353	369 382	3,644 3,578 3,442	1,182 1,108 1,073	766 9 814 748
48	November December	10, 264 8, 540	10,251 8,527	2,387 2,510	374 370	3, 180 2, 145	833 531	· 773 693
49 50	Land controlled, acres Owned	508,386 315,896	495, 579	247,783	222,503	3,954	4,929	718
50 51 52 53 54	Owned.  Held under lease  Mineral and oil land.  Owned.	192, 490 335, 140	305,089 190,490 332,733	239,564 8,219 95,920	50, 243 172, 260	3,479 475	3,820 1,109	418 300
53 54	Owned Held under lease Timber land Other land	147, 154 187, 986 150, 255	146,747 185,986	95,920 87,701 8,219	222, 503 50, 243	3,349 2,961	2,661 1,732	678 398
55 56	Timber land Other land	150, 255 22, 991	140,085 22,761	131,633 20,230	172,260	388 117 488	1,285 983	280 25 15
57	Primary horsepower	101,759	101,759	22,520	41,797	16,980	1,565	3, 575

<sup>1</sup> Includes operators as follows: Clay, 2; infusorial earth, 1; mica, 1; pyrite, 1; quartz, 1.
2 Exclusive of capital which could not be distributed by states because it was reported in one lump sum by operators having mining investments in two or more states.

MINING INDUSTRIES: 1909.

	PRODUCING MINES, QUARRIES, AND WELLS—continued.											Nonpro-	
	Sandstone.	Granite.	Marble.	Slate.	Gypsum.	Tale and soapstone.	Graphite.	Garnet.	Feldspar.	Emery.	Millstones and chasers.	All other.1	ducing mines, quarries, and wells.
1 2 3	50 62 \$885, 229	28 32 \$895,443	\$1,065,232	10 10 \$244,050	13 15 \$1,811,897	5 7 \$5,104,033	\$661,480	3 4 \$181,858	3 4 \$84,950	3 5 \$16,909	9 9 \$1,685	6 8 \$261, 619	\$161,820
4	\$429,598	\$385,095	\$306,691	\$99, 424	\$917,714	\$253,911	\$176,454	\$98,206	\$45, 475	\$6,523	\$6,981	<b>\$192,</b> 839	\$16,764
5	<b>\$26, 1</b> 35	\$22,639	\$34,911	\$3,547	\$53,924	\$21,172	\$7,290	• \$3,550	\$3,820	\$1,044		\$6,115	\$1,800
6 7	\$4,027 \$298,146	\$7,944 \$270,316	\$5,759 \$175,233	\$468 \$65,911	\$35,442 \$402,874	\$6,661 \$70,128	\$1,450 \$88,025	\$900 \$40, 204	\$909 \$17,656	\$2,781	\$6,075	\$5,160 \$97,514	\$5,720
8 9	\$30 <b>,</b> 738	\$40,374	\$34,793	\$10,785	\$202,920	\$47,945	\$39,813	\$19,491	\$1,793	\$218	\$140	\$30,793	\$2,810
10 11 12 13	\$11,908 \$8,424 \$2,146 \$30,453	\$17,884 \$4,934 \$2,161 \$350	\$24,048 \$850 \$2,878 \$11,650	\$6,904 \$5,784 \$405	\$61,671 \$23,467 \$6,495 \$1,487	\$5, 181 \$20, 793 \$7, 669	\$21,746 \$1,325 \$1,181	\$5,795 \$6,850 \$4,869	\$3,630 \$1,407 \$445	\$708 \$11	\$168 \$13	\$20,142 \$1,862 \$981 \$4,905	\$4 \$400 \$3,500
14	\$17,621	\$18,493	\$16,569	\$5,620	\$129, 434	\$74,362	\$15,624	\$16,547	\$15,815	\$1,761	\$585	\$25,367	\$2,530
15 16	\$ <b>508</b> , 638	\$444,435	\$344,981	\$99,827	\$1,048,403	\$314,724	\$138,905	\$101,920	\$47, 166	\$16,389	\$12,796	\$171,448	
17 18 19	970 84 58 25 3	614 48 28 8 7	326 24 11 2 8 5	197 17 12 6 2	737 27 12	220 14 10	190 5	120 7 5 2	69 6 4 4	17 2	31 10 10 9	212   6   3   3   1	23 10 9 2
20 21 22 23 24 25 26 27 28 29	23 9 877 877	13 10 556 556	5 8 294 294	3 1 179 135	15 42 668 341 327	4 11 195 132 63	5 2 183 183	2 1 112 112	2 2 61 45 16	15 15	21 21 21	$\begin{array}{c} 2\\5\\201\\110\\91\end{array}$	1 13 13
26 27 28 29	877 57 57	556 43 43	294 40 40	179 28 23 5	668 44 43	195 4 3	183 25 25	112 7 7	61 7 6	15 1 1	21	201 32 32 32	13 4 4
30	740	426	127	145	263	69	84	39	35	13	21	47	5
$\frac{31}{32}$	740	426	127	110 35	14 249	7 62	84	39	35	13	21	$\begin{array}{c} 5 \\ 42 \\ 122 \end{array}$	5 4
33 34 35 36	80 80	87 87	127 127	6 2 4	361 284 77	122 122	74 74	66 66	19 4 15	1		73 49	4
37 38 39 40 41 42 43 44 45 46 47 48	30 31 134 673 868 854 877 853 787 647 580 295	220 226 265 324 404 491 540 581 588 596 344 225	186 213 239 245 258 280 306 248 291 268 292 248 291	87 89 104 1112 128 135 138 132 149 123 110	509 575 586 567 595 675 600 589 611 628 661	214 214 188 166 180 137 177 200 214 221 202 191	147 135 127 137 148 194 180 116 123 164 182 173	61 63 62 70 103 104 115 107 129 129 115 82	40 47 12 15 49 52 47 26 14 59 30	54 44 45 55 113 136 666	18 17 20 20 19 19 4 7 19 18 18	145 141 161 158 172 167 184 146 172 173 188 201	10 10 10 10 10 10 10 10 10 10 13 13
49 50 51 52 53 54 55	1,587 1,350 237 1,053 893 160 10 524	690 607 83 630 547 83	313 272 41 313 272 41	213 213 213 213	1,824 556 1,268 1,702 514 1,188	308 119 189 308 119 189	3,246 2,734 512 843 331 512 2,335 68	5,396 1,396 4,000 996 696 300 4,300	144 4 140 15 15 125 4	631 1 630 631 1 630	249 225 24 62 38 24 80 107	1,091 301 790 856 301 555 175 60	12, 807 10, 807 2, 000 2, 407 407 2, 000 10, 170 230
57	1,304	3,379	1,087	410	3,174	3,720	800	315	220		*	913	

 $<sup>^{\</sup>rm 3}\, {\rm In}$  the iron mining industry 1 boy was employed below ground.

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