DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR RESIGNED APRIL 13, 1921

W. M. STEUART, DIRECTOR
APPOINTED APRIL 14, 1921

FOURTEENTH CENSUS OF THE UNITED STATES TAKEN IN THE YEAR 1920

VOLUME IX

MANUFACTURES

1919

REPORTS FOR STATES, WITH STATISTICS FOR PRINCIPAL CITIES

PREPARED UNDER THE SUPERVISION OF EUGENE F. HARTLEY
CHIEF STATISTICIAN FOR MANUFACTURES



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REPORTS OF THE FOURTEENTH CENSUS.

POPULATION:

Volume I.—Number and Distribution of Inhabitants.

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Volume III.—Composition and Characteristics of the Population, by States.

Volume IV.—OCCUPATIONS.

AGRICULTURE:

Volume V.—GENERAL REPORT AND ANALYTICAL TABLES.

Volume VI.—REPORTS FOR STATES, WITH STATISTICS FOR COUNTIES.

Part 1.—THE NORTHERN STATES.

Part 2.—THE SOUTHERN STATES.

Part 3.—The Western States and the Outlying Possessions.

Volume VII.—IRRIGATION AND DRAINAGE—GENERAL REPORT AND ANALYTICAL TABLES, AND REPORTS FOR STATES, WITH STATISTICS FOR COUNTIES.

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Volume VIII.—GENERAL REPORT AND ANALYTICAL TABLES.

Volume IX.—REPORTS FOR STATES, WITH STATISTICS FOR PRINCIPAL CITIES.

Volume X.—REPORTS FOR SELECTED INDUSTRIES.

MINING:

Volume XI.—Mines and Quarries—General Report and Analytical Tables, and Reports for States and Selected Industries.

ABSTRACT OF THE FOURTEENTH CENSUS.
ABSTRACT OF THE CENSUS OF MANUFACTURES.

LETTER OF TRANSMITTAL.

DEPARTMENT OF COMMERCE,
BUREAU OF THE CENSUS,
Washington, D. C., May 1, 1922.

SIR:

I transmit herewith Volume IX of the Reports of the Fourteenth Decennial Census, relating to manufactures. The statistics were collected during the year 1920, but relate in general to the year ending December 31, 1919.

The report on manufactures consists of three volumes and an Abstract of Manufactures. Volume VIII contains a summarization of the statistics of manufactures as a whole, for the separate industries and for the states, counties, and principal cities. Volume IX, the present volume, contains a separate report on the manufactures of each state and Alaska, Hawaii, and Porto Rico, with special statistics for the leading industries in the state and territory, each report having been previously issued as a bulletin. Volume X contains special reports relating to the leading industries of the United States, which were also published as a series of bulletins.

The collection and compilation of the statistics and the preparation of the text were under the supervision of Eugene F. Hartley, chief statistician for manufactures, assisted by John F. Daly, William A. Ruff, William W. Sawyer, chiefs of divisions, Frank L. Sanford and Story B. Ladd, expert special agents, and Lucy Craycroft, statistical expert.

Respectfully,

Hon. Herbert Hoover, Secretary of Commerce. W. M. STEUART,

Director of the Census.

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INTRODUCTION AND EXPLANATION OF TERMS.

INTRODUCTION.

The statistics of manufactures for the different states and territories were published as separate bulletins as rapidly as the statistics were compiled. These bulletins are now collected in the present volume forming Volume IX of the reports of the Fourteenth Census. This volume contains the reports for the states and the District of Columbia in alphabetical order, followed by the reports for Alaska, Hawaii, and Porto Rico. Included with the reports for Hawaii and Porto Rico, as separate sections, are the statistics for the quarries in each of those territories for which reports were made (there being no mines reported as such). figures in this volume in some unimportant details differ from those given in the bulletins, for the reason that certain minor errors discovered in the bulletins as first published have been corrected.

The text of the report for each state summarizes the general results of the census inquiry, presenting a series of special tables in which the most important figures shown in the general tables are given in convenient form for the state or territory as a whole and for important individual industries. It also presents tables in which the statistics for all manufacturing industries combined and for a few important industries

separately are classified by character of ownership, size of establishments, number of wage earners, and prevailing hours of labor, information which could not be presented for every industry without disclosing the operations of individual establishments.

At the end of the report for each state or territory are two general tables, a comparative summary for selected industries, and a detailed statement of all industries combined and specified industries.

The comparative summary gives, for 1919, 1914, and 1909, the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products, for selected industries in the state or territory and in cities having 50,000 inhabitants or more; and for cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

The detailed statement presents, for 1919, in the state or territory as a whole, and in cities with 50,000 inhabitants or more, statistics in detail for each industry that can be shown without the disclosure of individual operations; and for cities having from 10,000 to 50,000 inhabitants, similar data for all industries combined.

EXPLANATION OF TERMS.

Scope of census.—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 ownership, size of establishments, and similar subjects. When use is made of the statistics for these purposes it is imperative that due attention be given to their limitations, particularly in connection with any attempt to derive from them figures purporting to show average wages, cost of production, or profits.

The census did not cover establishments which were idle during the entire year or for which products were valued at less than \$500, or the manufacturing done in educational, eleemosynary, and penal institutions.

Period covered.—The returns relate to the calendar year 1919, or the business year which corresponded most nearly to that calendar year, and cover a year's operations, except for establishments which began or discontinued business during the year.

The establishment.—As a rule, the term "establishment" represents a single plant or factory, but in some

cases it represents two or more plants which were operated under a common ownership or for which one set of books of account was kept. If, however, the plants constituting an establishment as thus defined were not all located within the same city, county, or state, separate reports were secured in order that the figures for each plant might be included in the statistics for the city, county, or state in which it was located. 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 different from those covered by the class designation, and, on the other hand, may not represent the total product covered by this designation, because some of this class of product may be made in establishments in which it is not the product of chief value.

As a rule, the same designation is used for the industry wherever it appears, although all of the products indicated by this designation were not manufactured in the state or city for which these statistics are pre-

sented. In some instances the wording is changed so as to more correctly describe the products represented. For a number of industries subclasses are shown which indicate more definitely the kind of products.

Selected industries.—The general tables at the end of each state report give the principal facts separately for the industries of the state. A selection has been made of certain leading industries of the state for more detailed consideration. Sometimes an industry of great importance has to be omitted because it comprises so few establishments that a detailed presentation would reveal the operations of individual concerns.

Comparisons with previous censuses.—Owing to 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. At the census of 1909 the figures for kindred industries were combined. This practice has been followed in compiling the statistics for 1919 and 1914 when placed in comparison with those for 1909 and prior years. The comparative summary for 1919, 1914, and 1909, therefore, does not show separately all the industries given for 1919 in the detailed statement for the state.

Influence of increased prices.—In comparing figures for cost of materials, value of products, and value added by manufacture in 1919 with the corresponding figures for earlier censuses, 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 fail to afford an exact measure of the increase in the volume of business.

Persons engaged in the industry.—The following general classes of persons engaged in the manufacturing industries were distinguished: (1) Proprietors and firm members, (2) salaried officers of corporations, (3) superintendents and managers, (4) clerks (including other subordinate salaried employees), and (5) wage earners. In the reports for 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. In comparative tables covering the census of 1904 it is of course necessary to group the figures according to the classification that was employed at the earlier censuses.

The number of persons engaged in each industry, segregated by sex, and, in the case of wage earners, also by age (whether under 16 or 16 and over), was reported for a single representative day. The 15th of December was selected as representing for most industries normal conditions of employment, but where this date was not a representative day an earlier date was chosen.

In the case of employees other than wage earners the number thus reported for the representative date has been treated as equivalent to the average for the year, since the number of employees of this class does not ordinarily vary much from month to month. In the case of wage earners the average has been obtained in the manner explained in the next paragraph.

In addition to the more detailed report by sex and age of the number of wage earners on the representative date, a report was obtained of the number employed on the 15th of each month, by sex, without distinction of age. From these figures the average number of wage earners for the year has been calculated by dividing the sum of the numbers reported for the several months by 12. The importance of the 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 representative day, though given in certain tables for each separate industry, is not totaled for all industries combined for any state, because, in view of the variations of date, such a total is not believed 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. This total, however, is shown for the different cities, because the limited area and greater regularity of employment largely overcame the objection incident to its publication for the separate states or the United States.

In order to determine as nearly as possible the agdistribution of the average number of wage earners for a given state as a whole, the per cent distribution by age of the wage earners in each industry for cember 15, or the nearest representative day, has been calculated from the actual numbers reported for that date. The percentages thus obtained have been applied to the average number of wage earners for the year in that industry to determine the average numbers 16 years and over and under 16, employed. These calculated averages for the several industries have been added to give the average distribution for each state as a whole and for the entire country.

Salaries and wages.—Under these heads are given the total payments during the year for salaries and wages, respectively. The Census Bureau has not undertaken to calculate the average annual earnings of either salaried employees or wage earners. Such averages would possess little real value, because they would be based on the earnings of employees of both sexes, of all ages, and of widely varying degrees of skill. Furthermore, so far as wage earners are concerned, it would be impossible to calculate accurately even so simple an average as this, since the number

of wage earners fluctuates from month to month in every industry, and in some cases to a very great extent. The Census Bureau's figures for wage earners, as already explained, are averages based on the number employed on the 15th of each month, and while representing the number according to the pay rolls to whom wages were paid on that date, no doubt represent a larger number than would be required to perform the work in any industry if all were continuously employed during the year.

Prevailing hours of labor.—No attempt was made to ascertain the number of wage earners 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 part of the year to another were disregarded, and no attention was paid to the fact that a few wage earners might have hours differing from those of the majority. All the wage earners of each establishment are therefore counted in the class within which the establishment itself falls. In most establishments, however, practically all the wage earners work the same number of hours, so that the figures give a substantially correct representation of the hours of labor.

Capital.—The instructions on the schedule for securing data relating to 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 and live capital may be taken at the amounts carried and 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 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."

These instructions were identical with those employed at the censuses of 1914 and 1909. The data compiled in respect to capital, however, at both censuses, as well as at all preceding censuses of manufactures, have been so defective as to be of little value except as indicating very general conditions. In fact, it has been repeatedly recommended by the census authorities that this inquiry be omitted from the schedule. While there are some establishments whose accounting systems are such that an accurate return for capital could be made, this is not true of the great majority, and the figures therefore do not show the actual amount of capital invested.

Materials.—The statistics as to cost of materials relate to the materials used during the year, which may be more or less than the materials purchased during the year. The term "materials" covers fuel, rent of power and heat, mill supplies, and containers, as

well as materials which form a constituent part of the product.

Rent and taxes.—The taxes include certain Federal taxes and state, county, and local taxes. Under "Federal taxes" there are included the internal revenue tax on manufactures (tobacco, beverages, etc.), excise taxes when included in values reported for products, corporation capital stock tax, and corporation income tax, but not the income tax for individuals and partners.

Value of products.—The amounts given under this heading represent the selling value or price at the factory of all products manufactured during the year, which may differ from the value of the products sold.

Value added by manufacture.—The value of products is not always 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 processes carried on in the industry itself. Another part, and often by far the larger one, represents the value of the materials used. For many purposes, therefore, the best measure of the importance of an industry, from a manufacturing standpoint, is the value created by the manufacturing operations carried on within the industry. This value is calculated by deducting the cost of the materials used from the value of the products. The figure thus obtained is termed in the census reports "value added by manufacture."

Cost of manufacture and profits.—The census data do not show the entire cost of manufacture, and consequently can not be used for the calculation of profits. No account has been taken of depreciation or interest, rent of offices and buildings other than factory or works, insurance, ordinary repairs, advertising, and other sundry expenses.

Primary horsepower.—This item represents the total primary power generated by the manufacturing establishments plus the amount of power, principally electric, rented from other concerns. It does not cover the power of electric motors taking their current from dynamos driven by primary power machines operated by the same establishment, because the inclusion of such power would obviously result in duplication. The figures for primary horsepower represent the rated capacity of the engines, motors, etc., and not the amount of power in actual daily use.

Fuel.—Statistics of the quantity of fuel used are shown only for anthracite and bituminous coal, coke, fuel oils, gasoline and other volatile oils, and gas—natural and manufactured, and represent the quantity used during the year. As only the principal kinds of fuel are shown, comparison as to the total cost of all fuel is impracticable. A comparison, however, of the total quantities of the several kinds of fuel used in 1919 and 1914 is given.

Location of establishments.—The Census Bureau has classified establishments by their location in cities. In interpreting these figures due consideration should be given to the fact that establishments are often 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 city.

Laundries.—The censuses of 1919 and 1909 were the only manufacturing canvasses to include statistics of power laundries. The data are presented separately

and are not included in the general total for manufacturing industries, since their inclusion would interfere with comparisons with other censuses.

Custom sawmills and gristmills.—In order to make the statistics for 1919 comparable with those for 1914, the data for these mills have been excluded from all the tables presenting general statistics. Data for such establishments are given in a separate table at the end of the special statistics for each state and territory, so far as this can be done without disclosing the operations of individual establishments.

PORTO RICO.

GENERAL STATISTICS.

General character of the territory.—Porto Rico contains 3,435 square miles. Its population in 1899 was 953,243; in 1910, 1,118,012; and in 1920, 1,299,809.

Comparative summary (Table 1).—This table summarizes the more important data relative to all classes of manufactures combined in the territory of Porto Rico for the censuses of 1919 and 1909.

In connection with the percentages of increase, due consideration must be given to the fact that increases in wages, in cost of materials used, and in value of products since 1909 reflect very largely industrial conditions brought about by the World War and the lessened purchasing power of the dollar.

Principal industries ranked by value of products (Table 2).—The ranking of industries by value of products is often misleading as to their true importance from a manufacturing standpoint. The coffee cleaning and polishing industry, for instance, which ranked second in value of products, ranked fourth by average number of wage earners and value added by manufacture.

Persons engaged in manufacturing industries (Table 3).—The age classification of the average number of wage earners in this and other tables is an estimate obtained by the method described in the "Explanation of terms." The classification by sex in 1919 was reported separately, but in 1909 was obtained in the same manner as the distribution by age. Figures for individual industries will be found in Table 19.

Average number of wage earners for selected industries (Table 4).—The industries included in this table embrace those having 100 or more wage earners in 1919, and for which statistics can be shown without the possibility of disclosing individual operations.

Average number of wage earners, by sex and age, and value of products, for cities of 10,000 inhabitants or more (Table 5).—The two leading manufacturing cities, San Juan and Ponce, show considerable increases in the number of females employed in 1919 over 1909, while the class "under 16 years of age" has been reduced from 135 to 3 in San Juan and from 88 to 3 in Ponce during the decade. The table shows large gains in the value of products for each city for which comparative data can be shown.

Wage earners employed, by months (Table 6).—The statistics for wage earners are intended to show the steadiness of employment, or the reverse, in accordance with the conditions as they existed for the two censuses. For the territory the variations between

the maximum and minimum are most noticeable in the months of June and July.

Wage earners, by months, for selected industries and cities (Table 7).—In addition to the number employed by months, similar data are given for males and females for all industries combined and for the females for four industries which provided employment for a large number of that sex.

Prevailing hours of labor (Table 8).—In comparing the data for the two years reported a marked change is noted in the hours of labor per week for wage earners; about three-fourths, or 74.8 per cent, of the wage earners for 1919 worked more than 48 hours per week, as compared with 55 per cent of the number of wage earners who worked the same number of hours in 1909.

Size of establishments, by average number of wage earners, for selected industries and cities (Table 9).—The extent to which the small manufacturing establishments predominated in the territory is shown in this table. Only 12 establishments employed more than 250 wage earners.

Size of establishments, by value of products (Table 10).—In 1909 establishments with products valued at \$100,000 to \$1,000,000 formed one group, but in 1919 this group was subdivided, as follows: \$100,000 to \$500,000 and \$500,000 to \$1,000,000. The figures for these two groups separately are not available for 1909.

Size of establishments, by value of products, for selected industries (Table 11).—In the preparation of this table it was necessary in several instances to combine the establishments of one group with those of some other group to avoid the possibility of disclosing the operations of individual establishments.

Size of establishments, by value of products, for cities of 10,000 inhabitants or more (Table 12).—This table shows that few of the establishments in the group, "1,000,000 and over," are located within the corporate limits of the cities.

Character of ownership, for selected industries and cities (Table 13).—The tendency of manufactures toward the corporate form of ownership is evidenced by the increase in the number of establishments under "corporations" in 1919 over 1909, while "individuals" and "all others" show large decreases during the decade.

Manufactures, by population groups (Table 14).— This table furnishes data for cities of 10,000 inhabitants or more arranged in two groups—"10,000 to 25,000" and "25,000 to 100,000." Number and horsepower of types of prime movers (Table 15).—The use of steam and internal-combustion engines shows a marked increase in both the number of engines and in horsepower for 1919 as compared with 1909, the most noticeable being that of the number of internal-combustion engines, which increased 200 per cent.

Rented electric power increased 371.8 per cent in

number of motors and 381 per cent in horsepower during the ten-year period.

Fuel consumed, for selected industries and cities (Table 16).—The total quantities of the principal kinds of fuel used by the manufacturing plants in the territory, 1919 and 1909, are shown in this table, and also, for 1919, the amounts used by a number of industries which are large consumers of fuel.

TABLE 1.—COMPARATIVE SUMMARY: 1919 AND 1909.

	MANUFACTURII	IG INDUSTRIES.	Per cent		MANUFACTURII	NG INDUSTRIES.	Per cent
	1919	1909	crease, 1 1909–1919.		1919	1909	crease, 1 1909-1919.
Number of establishments Persons engaged Proprietors and firm members Salaried employees Wage earners (average number)	619 18,454 737 1,682 15,985	939 18,122 1,478 1,062 15,582	-34.1 1.8 -46.8 58,4 2.6	Salaries and wages. Salaries. Wages. Paid for contract work, Rent and taxes.	\$9, 104, 465 2, 338, 801 6, 765, 604 157, 784 2, 104, 740 59, 827, 274	\$4, 898, 228 1, 259, 032 3, 039, 196 21, 320 2, 941, 202	85, 9 85, 8 85, 9 639, 9 — 25, 4
Primary horsepower. Capital.	67, 226 \$84, 151, 310	34, 005 \$25, 544, 385	97. 7 229. 4	Cost of materials. Value of products. Value added by manufacture?	85, 506, 834 25, 679, 500	21, 470, 202 30, 740, 742 15, 270, 450	178. 5 132. 7 68. 2

¹ A minus sign (—) denotes decrease.

TABLE 2.—PRINCIPAL INDUSTRIES, RANKED BY VALUE OF PRODUCTS: 1919.

	- 1	10000	1	Thir			<u>. Arthur Milliantesthaire</u>	بالنب			1 12 1		gal ga	14,41
i de Air seude bacc Rechtliche Johan Lind III. Saut die errolle en gestare	ents.	WAGE EARNEI	RS. PRO	UE OF DUCTS.	ADDE	LUE ED BY UFAC- RE.	design manatrak dal ser Sekhadaa kebbah yang h Sekha widir Lea Seda	ents.	WAG		VALUI PRODU		ADDEX MANU	D BY
industry. Industry.	Number of establishme		Per cent distribution. Amount (expressed in thousands)	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	aida (°), rindaraksi yairaa da padagast nyangga (°) alagadia, alagi ndasa da angadia, aligi ndasa da angadi (°) oda aligi ndas angadi (°) oda aligi nada	Number of establishmen	Average number:	Per cent distribution.	Amount (expressed in thousands).	Per cent distribution.	Amount (expressed in thousands);	Per cent distribution.
All industries Sugar, cane Coffee, cleaning and polishing Tobacco, cigars and cigarettes Bread and other bakery products Foundry and machine-shop products Printing and publishing, newspapers and periodicals Food preparations, not elsewhere	55 81 183 152 5 24	7,490 46 578 3 5,098 31 880 5 271 1 168 1	00. 0 \$85, 8 6. 8 56, 41 11, 44 1. 9 8, 18 5. 5 4, 76 1. 7 74 1. 1 46	2 66.0 4 13.4 5 9.5 5 6 0.9	16,350 509 5,095 1,335		Clothing, men's Lee, manufactured Boot and shoe shops Printing and publishing, job Bay rum Mineral and soda waters Flour-mill and gristmill products All other industries	5 18 27 11 6 11 10 80	86 96 143 17 56 11	1.1 0.5 0.6 0.0 0.1 0.4 0.1 4.0	\$262 249 241 201 172 134 116 1,864	0.3 0.3 0.3 0.2 0.2 0.2 0.2	\$112 108 121 154 62 85 38 902	0.4 0.0 0.5 0.6 0.2 0.3 0.1 3.5
specified	6	129 0	0.8 29	0.3	103	0.4	Jereid nerve exclusive co					41.44	***************************************	

TABLE 3.—PERSONS ENGAGED IN MANUFACTURING INDUSTRIES: 1919 AND 1909.

CLASS.	Cen-	Total.	Malo.	Fe- male.		CENT OTAL.	CLASS.	Can-	Total.	Malo,	Te-	PER OF TO	
and the control of th	year.				Male,	Fe- male.	o. Ottoway taun si bek eni taul kalinggi keng	year.	,	, and the second	male.	Male.	Fo- male.
All classes	1919 1909	18,454 18,122	15,953 16,300	2,501 1,822	86. 4 89. 9	13.6 10.1	Clerks and other subordinate salaried employees.	1919 1909	891 754	820 737	71 17	92. 0 97. 7	8 0 2.3
Proprietors and officials.	1919 1909	1,578 1,786	1,507 1,635	71 151	95. 5 91. 5	4.5 8.5	delder auf visit eine steel				7.		
Proprietors and firm members	1919 1909	787 1,478	724 1,331	63 147	92. 0 90. 1	8. 0 9. 9	Wage earners (average number)	1919 1909	15,085 15,582	13,626 13,028	2,859 1,654	85.2 80.4	14.8 10.6
Salaried officers of corporations	1919 1909	132 44	129 44	3	97. 7 100. 0	2.3	16 years of age and over	1019 1909	15,881 14,824	13,531 13,268	2,350 1,556	85. 2 80. 5	14.8 10.5
Superintendents and managers	1919 1909	659 261	654 260	5 4	99. 2 98. 5	0.8 1.5	Under 16 years of age	1919 1909	104 758	05 660	98 98	91.8 87.1	8.7 12.9

² Value of products less cost of materials.

TABLE 4.—AVERAGE NUMBER OF WAGE EARNERS FOR SELECTED INDUSTRIES, WITH PER CENT, BY SEX AND AGE: 1919 AND 1909.

Andrew Communication (Communication Communication Communic		Wage	PER C	ENT OF	TOTAL.				PER CE	INT OF T	OTAL.
Industry.	Cen- sus year.	earners (aver- age num-		s of age over.	Under 16	INDUSTRY.	Cen- sus year.	Wage earners (aver- age		s of age over.	Un- der
		ber).	Male.	Fe- male.	years of age.		J car.	num- ber).	Male.	Fe- male.	years of age.
All industries	1919 1909	15, 985 15, 582	84.6 85.1	14.7 10.0	0.7 4.9	Printing and publishing, job	1919 1909	143 82	93.7 90.2	6.3 4.9	4.0
Bread and other bakery products	1919 1909	880 1,197	99. 0 98. 3	0.6	0.4 1.7	Printing and publishing, newspapers and periodicals.	1919 1909	168 271	97.0 89.7	2.4 3.3	0.6 7.0
Clothing, men's	1919 1919 1909	179 578 120	3.4 21.5 75.0	91.6 78.5 25.0	5.0	Sugar, cane	1919 1909	7,490 5,062	98.8 91.1	0.2 1.4	1.0 7.5
Food preparations, not elsewhere specified	1919 1909	129 122	42.6 38.5	57. 4 56. 6	4.9	Tobacco, cigars and cigarettes	1919 1909	5,098 7,025	70.2 78.9	29.7 17.9	0.1 3.2
	1919 1909	271 188	100. 0 88. 8		11.7	All other industries	1919 1909	1,049 1,515	88. 5 86. 9	10.6 7.7	1.0 5.4

TABLE 5.—AVERAGE NUMBER OF WAGE EARNERS, BY SEX AND AGE, AND VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919 AND 1909.

				, ,	111	 AVE	RAGE NUM	BER OF WA	GE EARNE	RS IN MAN	UFACTURII	NG INDUST	RIES.	•	
	*		CITY.	**************************************		 To	tal.		16 years of	age and ov	er.	Under	16 years	VALUE OF	PRODUCTS.
								M	ale.	Fer	nale.	of	age.		
*						1919	1909	1919	1909	1919	1909	1919	1909	1919	1909
Areci	bo		(3)U, b • 4•470 • 4	150		 400 775		400			28			\$2,300,062 1,851,023	
Baya Cagu Maya Ponce	us guez	4.4.4.4.	-4-618-4			775 157 691 1, 544 2, 696	72 479 971	595 155 623 1,167 1,902	63 406 763	180 68 374 791	4 70 120	2 3	5 3 88	1, 851, 023 1, 186, 223 3, 396, 698 4, 605, 714 6, 712, 723	\$124, 038 2, 255, 524 2, 399, 898 3, 242, 820
an J	uan					 2, 696	2,750	1,902	2,260	791	355	3″	135	6, 712, 723	3, 242, 8

TABLE 6.-WAGE EARNERS, BY MONTHS: 1919 AND 1909.

MONTH.	NUM	BER.I		ENT OF	MONTH.	MUM	BER.1	PER CI MAXI	
	1919	1909	1919	1909		1919	1909	1919	1909
January February March April May June	15, 144 17, 090 17, 076 16, 692 16, 473 10, 956	17, 461 18, 151 17, 812 17, 789 17, 416 15, 101	82. 6 93. 2 93. 1 91. 0 89. 8 59. 7	96. 2 100. 0 98. 1 98. 0 96. 0 83. 2	July August. September. October. November. December.	11,062 16,365 17,221 17,217 18,183 18,341	13,683 13,009 13,079 13,457 13,693 16,335	60.3 89,2 93.9 93.9 99,1 100.0	75.4 71.7 72.1 74.1 75.4 90.0

¹ The figures represent the number employed on the 15th of each month or the nearest representative day. Maximum number indicated by bold-faced figures, minimum by italic figures.

TABLE 7.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND CITIES: 1919.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by italic figures.]

	Aver-	N	UMBER :	EMPLOYE	D ON 15	TH DAY	OF THE 1	иолтн с	R NEAR	EST REPR	ESENTA'	IIVE DAY	:	Per cent
industry and city,	num- ber em- ployed during year-	Janu- ary.	Febru- ary.	March.	April.	Мау.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	Decem- ber,	mini- mum is of maxi- mum.
All industries Males. Fornales		15,144 13,964 1,180	17,090 16,058 1,032	17, 076 15, 995 1, 081	16,692 15,524 1,168	16, 473 15, 225 1, 248	10,956 9,712 1,244	11, 062 8, 567 2, 495	16,365 12,912 3,453	17, 221 13, 716 3, 505	17, 217 13, 604 3, 613	18, 183 14, 057 4, 126	18,341 14,178 4,163	59.7 53.4 24.8
Bread and other bakery products	179 578 129	855 142 826 128 289	857 142 728 130 240	867 142 761 132 228	868 191 781 127 244	862 191 745 128 238	870 191 805 129 235	883 191 161 133 248	886 192 46 130 256	886 191 62 127 302	899 191 253 132 348	906 192 875 122 294	921 192 894 130 330	92.8 74.0 5.0 91.7 65.5

TABLE 7.—WAGE EARNERS, BY MONTHS, FOR SELECTED INDUSTRIES AND CITIES: 1919—Continued.

[The month of maximum employment for each industry is indicated by bold-faced figures and that of minimum employment by italic figures.]

	Aver- age	N	UMBER 1	EMPLOYE	р ом 15	TH DAY	OF THE	MONTH (OR NEAR	EST REP	RESENT	LTIVE DA	Υ.	Per
INDUSTRY AND CITY.	num- ber em- ployed during year.	Janu- ary.	Febru- ary.	March.	April.	May.	June.	July.	August.	Sep- tember.	Octo- ber.	Novem- ber.	December.	mini- mum is of maxi- mum.
Printing and publishing, Job. Printing and publishing, newspapers and periodicals Sugar, cane Tobacco, cigars, and cigarettes All other industries	143	186	138	140	144	144	145	146	143	145	144	145	146	93, 2
	168	152	151	157	157	157	161	162	162	188	189	189	191	79, 1
	7,490	10, 312	12, 524	12,484	11,979	11,585	6,086	3,626	3, 983	4,227	4, 106	4,415	4, 553	29, 0
	5,098	1, 354	1, 203	1,188	1,191	1,242	1,259	4,437	9, 548	10,053	9, 872	9,958	9, 871	11, 8
	1,049	960	977	977	1,010	1,181	1,075	1,075	1, 020	1,040	1, 083	1,087	1, 113	80, 4
Industries showing large proportion of females. Clothing, men's. Coffee, cleaning and polishing. Food preparations, not elsewhere specified. Tobacco, cigars and cigarettes.	173 454 74 1,515	186 649 72 202	186 579 73 122	136 625 75 124	185 650 75 126	185 637 75 132	185 688 76 134	185 120 76 1,957	186 76 3,069	185 74 3,110	185 130 74 3,077	186 675 <i>66</i> 3,058	186 695 76 3,069	73. 1 17. 3 86. 8 3. 9
Total for cities	6, 263	3, 926	4,105	4,095	3,990	4,141	2,931	5,026	8,907	9, 487	9, 375	9, 575	9, 598	30. 5
Males	4, 850	3, 562	3,798	3,785	3,624	3,686	2,526	3,328	6,353	6, 867	6, 798	6, 940	6, 933	36. 4
Fomales.	1, 413	364	307	310	366	455	405	1,698	2,554	2, 620	2, 577	2, 635	2, 665	11. 5
AreciboMalesFemales	400	572	632	605	546	484	157	259	253	294	293	330	375	24, 8
	400	572	632	605	546	484	157	259	253	294	293	330	375	24, 8
BAYAMON	775	677	629	657	545	510	48	458	1,121	1,182	1, 157	1, 163	1,153	4. 1
	595	663	625	653	541	506	43	287	736	786	770	762	768	5. 5
	180	14	4	4	4	4	5	171	385	396	387	401	385	1. 0
CAGUASMalesFemales	157	202	204	204	204	205	203	112	112	112	112	102	112	49.8
	157	202	204	204	204	205	203	112	112	112	112	102	112	49.8
MAYAGUEZ. Males. Females.	691	722	761	765	769	956	797	627	581	555	557	621	631	55. 5
	623	665	703	707	711	818	709	538	477	501	503	567	577	58. 3
	68	67	58	58	58	138	88	89	54	<i>64</i>	<i>54</i>	<i>54</i>	<i>54</i>	39. 1
PONCE Males Females	1,544	817	1,065	1,057	1, 045	1,076	802	1, 196	2,177	2,323	2,266	2, 363	2,341	33. 9
	1,170	661	923	914	897	921	648	791	1,573	1,696	1,645	1, 745	1,626	37. 1
	874	1 56	· 148	143	148	155	154	405	604	627	621	618	715	19. 9
SAN JUAN	2,696	936	814	807	881	910	924	2,374	4,713	5,021	4,990	4,096	4, 986	16. 1
	1,905	799	711	708	725	752	766	1,341	3,202	8,478	3,475	3,434	3, 475	20. 2
	791	137	103	105	156	158	158	1,033	1,511	1,543	1,515	1,562	1, 511	6. 6

TABLE 8.—AVERAGE NUMBER OF WAGE EARNERS, BY PREVAILING HOURS OF LABOR PER WEEK FOR SELECTED INDUSTRIES AND CITIES: 1919 AND 1909.

	Census		IN ESTAB	Lisuments	WHERE TI	IE PREVAII	ing nour	OF LABOR	PER WEE	C WERE—
INDUSTRY AND CITY.	year.	Total.	44 and under.	Between 44 and 48.	48.1	Between 48 and 54.	54.	Between 54 and 60.	60.	Over 60.
Allindustries.	1919 1909	15, 985 15, 582	409 (²)	60 (2)	3, 565 7, 007	377 197	4, 236 1, 938	695 336	1, 195 1, 290	5, 448 4, 814
Bread and other bakery products.	1919 1909 1919	880 1,197 179	(²) 37	(2)	201 258 142	21 84	9	444 274		160 572
Clothing, men's 2	1919 1919 1909	578 120	(2)	(2)	808 12		19	7	180 34	30 48
Food preparations, not elsewhere specified	1919 1909	129 122	(2)	(2)	121 91	an salynia.	3 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	8	31	
Foundry and machine-shop products	1919 1909	271 188			170		101 169		19	
Printing and publishing, job 2	1919 1919	143 168	2	4	143 148			14		
Sugar, cane.	1919 1909	7, 490 5, 062	(2) 15	(4)	793 213	334 9	198	174 27	1,000 604	5, 174 4, 011
Tobacco, cigars and cigarettes.	1919 1909	5, 098 7, 025	(2) 69	(a) 47	961 5, 630		4, 009 1, 221	15	2 82	2 19
All other industries	1919 1909	1,049 1,868	(2) 232	(2)	518 803	14 46	126 322	55 13	13 520	82 164
Total for cities.	1919 1919	6,263	51 5	55	1, 323	320	3, 276	335	188	715
BAYAMON CAGUAS MAYAGUEZ PONCE. SAN JUAN	1919 1919 1919 1919 1919	775 157 691 1, 544 2, 696	9 37	9	11 5 431 226 617	4 816	517 1 23 777 1, 958	17 3 121 133 23	115 73	230 29 25 92 15

TABLE 9.—SIZE OF ESTABLISHMENTS, BY AVERAGE NUMBER OF WAGE EARNERS, FOR SELECTED INDUSTRIES AND CITIES: 1919.

													<u> </u>						
and the second of the second o	TO	TAL.			:	1.	1000	E	STABLIS	SHME	NTS EM	PLOYI	1G—						
INDUSTRY AND CITY.	ents.	ars (average ser).	No wage earn- ers.			ear.	o 20 age ners, usive.	ear:	to 50 age ners, nsive.	ear	o 100 age ners, usive.	ear	to 250 age ners, usive.	v car	to 500 rage ners, usive,	ear	o 1,000 age ners, usive.	1, W	ver ,000 age ners.
	Establishments	Wage earners (s number).	Establish- ments.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.	Establish- ments.	Wage earners.
All industries	619	15, 985	22	372	992	143	1, 503	29	986	19	1, 389	22	3, 479	6	1,944	5	3, 861	1	1,831
Bread and other bakery products Clothing, men's Coffee, cleaning and polishing Food preparations, not elsewhere specified Foundry and machine-shop products.	152 5 31 6 5	880 179 578 129 271	1 1 1	97 1 16 1	309 2 38 3 2	51 7 1	446 86 8	2 3 2 2 2 2	55 104 75 59 64	1 5 1 1	70 73 379 59 80	 1	125						
Printing and publishing, job. Printing and publishing, newspapers and periodicals. Sugar, cano. Tobacco, cigars and cigarettes. All other industries.	24 55	168 7, 490 5, 098 1, 049	3 3 6 7	5 11 8 128 104	33 8 349 234	9 7 40 26	26 111 105 411 310	1 4 4 9	24 133 157 315	10	728	1 18 1 1	2, 861 200 190	6	1,944	2 3	i, 711 2, 150	ï	1,831
Total for cities	176	6, 263	7	90	260	50	558	13	444	5	392	6	888	2	616	2	1,274	1	1, 831
Arecibo. Bayamon. Caguas. Mayaguez. Ponob. San Juan.	18 10 11 52 38 47	400 775 157 691 1,544 2,696	1 2 1 3	9 8 6 33 19 15	29 28 17 84 66 36	7 4 10 12 17	71 25 98 146 218	4 1 8	121 21 302	1 3 1	73 239 80	1 1 2 2	229 115 315 229	1 i	316	1	518 756	ï	1, 831

TABLE 10.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS: 1919 AND 1909.

	VALUE OF	product.	ESTA	BER OF BLISH- NTS.	BE	JÉ NUM- R OF EARNERS.	VALUE OF	PRODUCTS.	WALUE AD	
1900 2000 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900 - 1900		*	1919	1909	1919	1909	1919	1909	1919	1909
All classes			619	939	15, 985	15, 582	\$ 85, 506, 834	\$36, 749, 742	\$ 25 , 679, 560	\$ 15, 270, 450
Loss than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$500,000. \$1,000,000 and over.			226 159 150 40 21 23	574 216 77 } 66 6	(0,000	1,824 1,925 2,748 } 4,790 4,300	562, 048 1, 622, 693 7, 327, 465 { 10, 253, 489 15, 202, 959 50, 538, 180	1, 104, 697 2, 065, 216 3, 839, 985 3, 579, 501	384, 923 813, 984 2, 342, 555 2, 159, 163 3, 503, 147 16, 475, 788	577, 073 887, 803 1, 724, 835 7, 279, 773 4, 800, 966
						PER	CENT DISTRIBU	TTION.		gertage de la companya de la company
All classes			 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000. \$500,000 to \$1,000,000. \$1,000,000 and over.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	36.5 25.7 24.2 6.5 3.4	1 70	3.1 4.9 11.4 10.2 19.0 51.4	30.7	0.7 1.9 8.6 12.0 17.8 59.1	3.0 5.6 10.4 54.9 26.1	1.5 3.2 9.1 8.4 13.6 64.2	3.8 5.8 11.3 47.7 31.4

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1909.

	11		BER O			ERAGE N WAGE E.			7AI	LUE OF PROD	UCTS.		VALUE AT	DED BY MAX	IUFACT	URE.
industry and value of product.	1010	1909	distril	cent oution.	1919	1909	Per distrib	cent oution.	1919	1909		cent oution.	1919	1909	Per distrib	cent oution.
gaja sa	TOTO	1000	1919	1909	1010		1919	1909			1919	1909			1919	1909
BREAD AND OTHER BAKERY PRODUCTS. Less than \$5,000. \$5,000 to \$20,000. \$20,000 to \$100,000. \$100,000 to \$500,000.	152 11 49 89 3	258 131 117 10	100. 0 7. 2 32. 2 58. 6 2. 0	100. 0 50. 8 45. 3 3. 9	880 16 137 602 125	1,197 340 701 156	100. 0 1. 8 15. 6 68. 4 14. 2	100. 0 28. 4 58. 6 13. 0	\$4,761, 192 34,615 594,470 3,596,906 535,201	\$1,729,886 350,174 1,087,359 292,353	100. 0 0. 7 12. 5 75. 5 11. 2	100. 0 20. 2 62. 9 16. 9	\$1,335,172 15,711 186,088 1,000,712 132,661	\$556, 450 111, 184 346, 493 98, 773	100.0 1.2 13.9 74.9 9.9	100.0 20.0 62.3 17.8
COFFEE, CLEANING AND FOL- ISHING	31 3 4 16 5	87 7 13 1 17	100. 0 9. 7 12. 9 51. 6 16. 1 9. 7	100. 0 18. 9 35. 1 45. 9	578 1 7 143 203 224	120 13 44 63	100. 0 0. 2 1, 2 24. 7 35. 1 38. 8	100. 0 10. 8 36. 7 52. 5	11, 443, 636 17, 900 275, 000 4, 563, 293 3, 420, 843 3, 166, 600	5, 052, 599 89, 963 767, 539 4, 195, 097	100. 0 0. 2 2. 4 39. 9 29. 9 27. 7	100.0 1.8 15.2 83.0	508, 794 2, 682 20, 157 140, 455 190, 500 155, 000	288, 339 9, 932 55, 723 222, 684	100. 0 0, 5 4, 0 27. 6 37. 4 30. 5	100. 0 3. 4 19. 3 77. 2

TABLE 11.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR SELECTED INDUSTRIES: 1919 AND 1909—Continued.

] 1		IBER O			erage i Wage e			VAI	LUE OF PROI	oucts.		VALUE AI	DED BY MA	NUFACT	URE.
			<u>.</u>			ſ	1 .			1	ſ			<u> </u>	ī	
INDUSTRY AND VALUE OF PRODUCT.	1919	1909	distri	cent bution.	1919	1909		cent oution.	1919	1909		cent oution.	1919	1909	Per distril	cent oution
			1919	1909			1919	1909			1919	1909			1919	1909
PRINTING AND PUBLISHING,															}	
NEWSPAPERS AND FERIODI- CALS	24 7 10 7	32 20 1 12	100, 0 29, 2 41, 7 29, 2	100. 0 62. 5 37. 5	168 16 60 92	271 29 1 242	100.0 9.5 35.7 54.8	100.0 10.7 89.3	\$467,542 21,613 94,677 351,252	\$237,681 39,894 1197,787	100.0 4.6 20.2 75.1	100.0 16.8 83.2	\$294,500 16,544 68,170 209,780	\$177,912 35,104 1 142,808	$\begin{array}{c} 100.0 \\ 5.6 \\ 23.1 \\ 71.2 \end{array}$	100.0 19.7 80.3
SUGAR, CANE Less than \$5,000 \$5,000 to \$20,000 \$5,000 to \$100,000 \$100,000 to \$500,000 \$100,000 to \$500,000 \$1,000,000 and over		108 48 12 8 37	100. 0 14. 5 9. 1 18. 2 25. 5 32. 7	100. 0 44. 4 11. 1 7. 4 34. 3	7,490 212 430 1,553 5,286	5,062 201 120 223 3,122 1,396	100.0 0.1 2.8 5.7 20.7 70.6	100. 0 4. 0 2. 4 4. 4 61. 7	56, 411,932 2 29,114 1,225,152 2,710,330 10,288,047 42,164,289	20,569,348 78,344 115,558 440,007 13,651,857	100.0 0.1 2.1 4.8 18.2 74.7	100.0 0.4 0.6 2.1 66.4	16,350,196 210,692 194,503 743,634 2,005,352 12,796,015	8,295,793 37,353 44,946 158,678 5,396,587 2,658,229	0.1 1.2 4.5 15.9 78.3	
TOBACCO, CIGARS AND CIGARETES. Less than \$5,000 \$5,000 to \$20,000. \$20,000 to \$100,000. \$1,000,000 and over.	183 130 35 12	282 231 27 14 8 7 3	100, 0 71, 0 19, 1 6, 6 3, 3	100. 0 81. 9 9. 6 5. 0 2. 5 1. 1	5,098 343 274 281 44,200	7,025 850 500 1,312 31,459 2,904	100,0 6.7 5,4 5.5 82.4	100.0 12.1. 7.1 18.7 20.8 41.3	8,134,534 306,571 325,282 388,561 47,114,120	6,060,393 370,544 245,669 855,957 31,292,304 3,295,910	100.0 8.8 4.0 4.8 87.4) E4 4	5,094,993 226,459 220,068 227,879 44,420,587	4,002,848 251,526 106,300 616,045 \$826,240 2,142,737	100.0 4.4 4.3 4.5 86.8	100. 6. 4. 15. 20. 53.

¹ Includes the group "\$20,000 to \$100,000." ² Includes the group "Less than \$5,000."

TABLE 12.—SIZE OF ESTABLISHMENTS, BY VALUE OF PRODUCTS, FOR CITIES OF 10,000 INHABITANTS OR MORE: 1919.

en e		Num-	WA EARN		VALUE PRODUC		VALUE ADD MANUFAC	
CITY AND VALUE OF PRODUCT.	1	ber of estab- lish- ments.	Aver- age num- ber.	Per cent of total.	Amount.	Per cent of total.	Amount.	Per cent of total.
Arecibo	:	18	400	100.0	\$2, 300, 062	100.0	\$589,606	100.0
ess than \$5,000. 5,000 to \$20,000. 20,000 to \$100,000 100,000 and over		4 5 5 4	7 19 40 334	1, 8 4, 8 10, 0 83, 5	7, 456 51, 288 158, 870 2, 082, 448	0, 3 2, 2 6, 9 90, 5	5, 598 18, 439 37, 235 528, 334	0. 9 3. 1 6. 8 80. 6
BAYAMON	•••••	10	775	100.0	1, 851, 023	100.0	550, 798	100.
ess than \$20,000. 20,000 and over.		7	704	1. 4 98. 6	25, 494 1, 825, 529	1. 4 98. 6	10, 914 539, 884	2. (98. (
CAGUAS		11	157	100.0	1, 186, 223	100.0	356, 880	100.
ess than \$5,000. 5,000 to \$20,000. 20,000 and over.		3 3 5	10 8 139	6. 4 5. 1 88. 5	8, 618 25, 079 1, 152, 526	0. 7 2. 1 97. 2	5, 232 12, 701 338, 947	1. 4 3. 6 95. 6
Mayaguez.		52	691	100.0	3, 396, 698	100.0	021, 304	100.
ess than \$5,000. 5,000 to \$20,000. 20,000 to \$100,000. 100,000 to \$500,000. 500,000 to \$1,000,000.		19 13 13 4 3	45 50 148 256 192	6. 5 7. 2 21. 4 37. 0 27. 8	55, 247 128, 748 450, 685 840, 681 1, 921, 337	1. 6 3. 8 13. 3 24. 7 56. 6	41, 426 66, 514 200, 649 242, 950 303, 855	4. 4 7. 5 22. 4 26. 4 30. 4
PONCE		38	1, 544	100.0	4, 605, 714	100.0	1, 522, 273	100.0
.ess than \$5,000. 5,000 to \$20,000 20,000 to \$100,000 100,000 and over.		12 11 10 5	32 79 122 1,311	2. 1 5. 1 7. 9 84. 9	38, 595 104, 345 479, 996 3, 982, 778	0. 8 2. 3 10. 4 86. 5	24, 912 01, 282 158, 280 1, 277, 798	1, 6 4, 6 10, 4 83, 9
San Juan.		47	2, 696	100.0	6, 712, 723	100.0	4, 210, 905	100. (
.ess than \$5,000. 5,000 to \$20,000 20,000 to \$100,000. 100,000 and over		9 12 19 7	16 110 362 2, 208	0. 6 4. 1 13. 4 81. 0	24, 844 123, 377 1, 035, 706 5, 528, 738	0, 4 1, 8 15, 4 82, 4	17, 651 81, 276 491, 376 3, 620, 602	0. 4 1. 9 11. 7 86, 0

³ Includes the group "\$500,000 to \$1,000,000." ⁴ Includes the groups "\$500,000 to \$1,000,000" and "\$1,000,000 and over."

TABLE 13.—CHARACTER OF OWNERSHIP, FOR SELECTED INDUSTRIES AND CITIES: 1919 AND 1909.

u safe saste units sei			MBER BLISHM		AV	ERAGE I	NUMBE	R OF W	AGE E	ARNER	s.		v.	ALUE OF PR	ODUCTS.			
INDUSTRY AND CITY.	Cen- sus year.	ow	NED B	Y		In est	ablishn ned by	ients	Perc	ent of	total.		Of establi	shments ov	ned by-	Perc	ent of	total.
-		Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Total.	Indi- vid- uals.	Cor- pora- tions.	All oth- ers.	Indi- vid- uals.	Corpora- tions.	All oth- ers.	Total.	Individ- uals.	Corpora- tions.	All others.	Indi- vid- uals.	Cor- pora- tions.	oth-
All industries	1919 1909	431 672	80 63	108 204	15, 985 15, 582	2,816 3,652	10, 713 8, 608	2,456 3,322	17. 6 23. 4	67. 0 55. 2	15. 4 21. 3	Dollars. 85,506,834 36,749,742	Dollars. 10,449,452 4,781,300	Dollars. 55,094,026 18,977,267	Dollars. 19,963,356 12,991,175	12. 2 13. 0	64. 4 51. 6	23.3 35.4
Bread and other bakery products.	1919 1909	124 217	2 5	. 27 36	880 1,197	673 973	2 45	1 207 179	76. 5 81. 3	3.8	23. 5 15. 0	4,761,192 1,729,886	3,371,622 1,390,367	² 61,073	1 1,389,570 278,446	70. 8 80. 4	3.5	29. 2 16. 1
Coffee, cleaning and polishing.	1919 1909	6 7		25 30	578 120	. 91 13	•••••	487 107	15. 7 10. 8		84.3 89.2	11,443,636	1,675,800 582,585		9, 767, 836 4, 470, 014	14.6 11.5	•••••	85.4 88.5
Printing and publishing, newspapers and periodi- cals.	1919 1909	12 20	10 1	2 11	168 271	55 111	³ 113	1 160	. 32. 7 41. 0	67.3	59.0	467, 542 237, 681	69,442 112,625	\$ 398, 100	1 125, 056	14.9 47.4	85.1	52.6
Sugar, cane	1919 1909	12 51	33 23	10 34	7, 490 5, 062	644 546	5,779 3,067	1,067 1,449	8. 6 10. 8		14. 2 28. 6	56, 411, 932 20, 569, 348	3,333,521 1,328,809	45, 925, 205 13, 129, 453	7, 153, 206 6, 111, 086	5. 9 6. 5	81.4 63.8	12. 7 29. 7
Tobacco, cigars and cigarettes.	1919 1909	169 240	6 14	28 28	5,098 7,025	809 1,386	4, 042 4, 764	247 875	15. 9 19. 7	79.3 67.8	4.8 12.5		861, 331 728, 839	6, 894, 934 4, 793, 641	378, 269 537, 913	10, 6 12, 0	84.8 79.1	4.6 8.9
Total for cities	1919	112	28	36	6, 263	1, 269	2, 709	2,285	20. 3	43.2	36.5	20, 052, 443	5,022,039	7, 595, 304	7, 435, 100	25.0	37.9	37.1
ARECIBO. BAYAMON. OAGUAS. MAYAGUEZ. PONCE. SAN JUAN.	1919 1919 1919 1919 1919 1919	11 5 10 37 29 20	3 2 1 6 1 15	4 3 9 8 12	400 775 157 691 1,544 2,696	61 18 1 157 255 579 199	320 170 2,219	19 1 757 266 1 965 278	15. 2 2. 3 100. 0 36. 9 37. 5 7. 4	80. 0 24. 6 82. 3	4.8 97.7 38.5 62.5 10.3	1,186,223 3,396,698 4,605,714	204, 901 119, 445 1 1, 186, 223 1, 286, 487 1, 870, 187 354, 796	745, 765	1 2, 735, 527	8, 9 6, 5 100, 0 37, 8 40, 6 5, 3	70.0 22.0 78.0	59.4

¹ Includes the group "Corporations."

TABLE 14.—MANUFACTURES, BY POPULATION GROUPS, IN CITIES OF 10,000 INHABITANTS OR MORE: 1919 AND 1909.

and the second of the second	ot ogi		anti ta ci	TIES HAVI	ng a populatio	on of 10,0	000 or over.		THE TERRITOR	
n de la compléte de La compléte de la co	Cen-	Aggregate.	Total	e di sary	10,000 to 2	5,000.	25,000 to 10	00,000,	ING A POPUL 10,000 OR OV	ATION OF
or ordine office. spidento	year.	gelland Fodt of w	Number or	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggre- gate.	Number or amount.	Per cent of aggregate.
Number of places.	1919 1909		6 4		4 2		2 2			
Population 1	1920	1, 297, 772	163, 941	12. 6	51, 673	4.0	112, 268	8. 6	1, 133, 831	87. 4
	1910	1, 118, 012	110, 660	9. 9	26, 917	2.4	83, 7 4 3	7. 5	1, 007, 352	90. 1
Number of establishments	1919	619	176	28. 4	91	14.7	85	13.7	448	71.6
	1909	939	178	19. 0	71	7.6	107	11.4	761	81.0
Average number of wage earners	1919	15, 985	6, 263	39. 2	2, 023	12. 7	4, 240	26. 5	9, 722	60. 8
	1909	15, 582	4, 272	27. 4	551	3. 5	3, 721	23. 9	11, 310	72. 6
Value of products	1919	\$85, 506, 834	\$20, 052, 443	23. 5	\$8,734,006	10. 2	\$11, 318, 437	13. 2	\$65, 454, 391	76. 5
	1909	36, 749, 742	8, 022, 273	21. 8	2,379,558	6. 5	5, 642, 715	15. 4	28, 727, 469	78. 2
Value added by manufacture	1919	25, 679, 560	8, 151, 856	31. 7	2, 418, 678	9. 4	5, 733, 178	22. 3	17, 527, 704	68. 3
	1909	15, 270, 450	3, 418, 479	22. 4	582, 487	3. 8	2, 835, 992	18. 6	11, 851, 971	77. 6
		Population of 1	920, as of Jan. 1	, 1920; 19	10, as of Apr. 15	, 1910.	1756 2014	e i en us ^k	day Lawya	aret g

TABLE 15.—NUMBER AND HORSEPOWER OF TYPES OF PRIME MOVERS: 1919 AND 1909.

 A.S. at the Grand State of Children Ry California Williams 			1 1 2 1 1 1 1 1			
The Control of the second of the Control of the Con		ER OF		HORSEPO		nd ves www.
POWER, BELLEVIEW AND THE STREET OF THE POWER, BELLEVIEW AND THE STREET OF THE STREET O	ENGIN MOT	rors.	Ame	unt.	Рего	ent ution.
oli approper o a partefatence y califfer, it en greatner et composition of the compositio	1919	1909	1919	1909	1919	1909
Primary power, total.	1, 257	662	67, 226	34, 005	100. 0	100,0
Owned Steam 1 Engines Turbines. Internal-combustion engines. Water Water wheels and turbines. Water motors.	856 695 685 10 159 2	577 506 (2) (2) 53 18 17 1	65, 105 63, 911 61, 612 2, 299 1, 172 22 22	33, 564 32, 527 (2) (2) (2) 842 195 183 12	96. 8 95. 1 91. 6 3. 4 1. 7 (a)	98. 7 95. 7 2. 5 0. 5 0. 5 (³)
Rented—Electric	401	85	2, 121	441	3.2	1.3
Electric	101	115 85 30	8, 137 2, 121 6, 016	1, 385 441 944	100. 0 26. 1 73. 9	100, 0 31, 8 68, 2

¹ Figures for horsepower include for 1909 the amount reported under the head of "Other" owned power. 2 Not reported separately. 2 Less than one-tenth of 1 percent.

² Included the group "Other" in 1909.

³ Includes the group "All others."

TABLE 16.-FUEL CONSUMED, FOR SELECTED INDUSTRIES AND CITIES: 1919.

		CO	ALT FOLL TELL	Coke	Fuel oils	Gasoline and	Gas
INDUSTRY AND CITY.		Anthracite (tons, 2,240 pounds).	Bituminous (tons, 2,000 pounds).	(tons, 2,000 pounds).	(barrels).	other volatile oils (barrels).	
All industries. Per cent of increase ²		2, 100 946 122. 0	16, 808 41, 988 —60. 0	2,296 368 523.9	98,134 1,036	3, 265 (¹)	27,602
Bread and other bakery products		50	890 170 190	32 12 716	174 1,184 310 108 11,680	1,036 440 2 72 1	708 25,000
Lime. Liquors, distilled Liquors, malt. Sugar, cane. Tobacco, cigars and cigarettes. All other industries.	1		15, 515	875 50 611	3, 487 6, 552 72, 628 1, 915 96		1,894
Total for cities	4	675	3,660	846	30, 898	841	26, 894
ARECIBO. BAYAMON CAGUAS. MAYAGUEZ PONCE SAN JUAN.		150	1,190 800 400 1,110 160	5 6 202 110 523	3, 525 249 2, 000 2, 382 6, 649 16, 093	50 24 232 20 15	20, 894

¹ Included in figures for fuel oils.

SPECIAL STATISTICS.

For a number of important industries the Census Bureau collects, by means of special schedules, certain details which do not appear in the general schedule.

Sugar and molasses.—In 1919 there were reported 686,037,703 pounds of raw sugar, 122,668,473 pounds of clarified sugar, 10,342,600 pounds of brown sugar, and 18.783,172 gallons of molasses, as compared with 566,445,203 pounds of raw sugar and 17,874,097 gallons of molasses in 1909. The total value of all kinds of sugar was \$55,607,202, of molasses \$637,799, and of all other products \$166,931, or an aggregate value of products of \$56,411,932 in 1919, as compared with \$20,164,887 for raw sugar, \$397,008 for molasses, and \$7,453 for all other products in 1909. As already stated, sugar is the leading manufacturing industry of the island. The modern methods and machinery installed in recent years have increased the production of sugar, but the quantity of molasses produced has remained about stationary. In 1909 there were no refineries in Porto Rico, and all the sugar used and exported was raw brown sugar.

Tobacco manufactures.—The quantity of cigarettes and the value of cigars and cigarettes can not be published separately without disclosing the operations of individual establishments, but a total of 171,184,749 cigars was reported as manufactured during 1919, as compared with 217,792,000 manufactured during

1909. The total value of all tobacco products for 1919 was \$8,134,534, as compared with \$6,060,393 for 1909. While the tobacco plant is indigenous to the island, its cultivation was, prior to 1870, confined to small plantings for domestic consumption.

Coffee, cleaning and polishing.—The coffee tree is not native to the island, but was introduced there in the first half of the eighteenth century. Practically all of the coffee raised goes through a complete or partial process of cleaning, hulling, polishing, and grading to prepare it for the market. The total quantity of cleaned and polished coffee reported in 1919 was 50,252,820 pounds, as compared with 44,350,435 pounds in 1909. All but 3 of the 31 coffee mills reported the process of polishing the coffee. The modern wet process is superseding the older dry method, but requires a larger investment than the small planters can afford. The result is that the business of preparing the coffee for market is being transferred from the plantation to the large custom mills. The total value of products for 1919 was \$11,443,636, as compared with \$5,052,599 for 1909.

The following statement shows the number of coffee cleaning and polishing establishments engaged in merchant and in custom work, together with the value of products of the several classes of establishments in 1919 and 1909:

A minus sign (-) denotes decrease.

	1919	1909
Total number of mills Merchant Custom Merchant and custom	31 18 13	3° 20
Total value of products. Merchant milled. Custom milled.	\$11,443,636 7,775,631 3,668,005	\$5,052,59 2,899,49 2,153,10

Laundries.—Statistics for power laundries are not included in the general tables nor in the totals for manufacturing industries. Table 17, however, summarizes the statistics for such laundries in the territory for 1919.

TABLE 17.—Power Laundries: 1919.

er type i krijt. George		Number or amount.
Persons engaged Proprietors and firr Salaried employees Wage earners (aver Primary horsepower. Capital. Salaries and wages. Salaries. Wages Paid for contract work. Rent and taxes. Cost of materials.	n membersage number)	66 66 66 66 \$61,536 24,886 4,055 20,825 78,825 13,155 75,406

GENERAL TABLES.

Table 18 gives the number of establishments, average number of wage earners, primary horsepower, wages, cost of materials, and value of products for all industries combined and for selected industries in the territory, 1919 and 1909. Certain kindred

industries are combined in some instances for comparison with 1909. Table 19 presents, for 1919, statistics in detail for the territory as a whole and for each industry that can be shown without the disclosure of individual operations.

TABLE 18.—COMPARATIVE SUMMARY FOR SELECTED INDUSTRIES AND CITIES: 1919 AND 1909.

INDUSTRY.	Cen-	estab-	Wage earners (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.	industry.	Cen- sus year.	Num- ber of estab- lish-	Wage earners (aver- age	Pri- mary horse-	Wages.	Cost of mate- rials.	Value of prod- ucts.
	year.	lish- ments.		power.	Ex tl	pressec	l in is.		year.	ments.	num- ber)	power.	Ex th	pressed lousand	in s.
All industries	1919 1909	619 939			\$6,766 3,639	\$59, 827 21, 479	\$85,507 36,750	Dime.	1919 1909	19 12	62 28		\$19 3	\$ 21 8	\$58 14
Bay rum	1919 1909	6	17 6	3	7	110 9	172 16	Printing and publishing	1919 1909	35 43	311 353	144 89	187 98	224 136	672 371
Boot and shoe shops	1919 1909	27 59	96 303	2 3	44 55	120 98	241 190	Sugar, cane	1919 1909	55 108	7,490 5,062	62, 150 31, 055		40, 062 12, 274	56, 412 20, 569
Bread and other bakery products.	1919 1909	152 258	880 1,197	630 45	514 366	3,426 1,173	4,761 1,730	Tobacco, cigars and cigarettes	1919 1909	183 282	5,098 7,025	55 150	2, 287 1, 480	3,040 2,058	8, 135 6, 060
Brick and tile	1919 1909	4 25	16 66		5 12	3 7	15 31	All other industries	1919 1909	72 81	1,052 1,138	1,253 1,047	423 277	1,325 837	2, 462 2, 383
Carriages and wagons, includ- ing repairs.	1919 1909	7 11	17 54	25	7 12	19	21 43	San Juan	1919 1909	47 70	2,696 2,750	954 748	1, 398 673	2,502 1,209	6, 713 3, 243
Coffee, cleaning and polishing	1919 1909	31 37	578 120	1,575 1,085	227 32	10,935 4,764	11, 444 5, 053	ARECIBO	1919 1919	18 10	400 775	3, 287 1, 634	136 304	1,711 1,300	2,300 1,851
Flour-mill and gristmill products.	1919 1909	10 5	11 4	155 30	5 1	83 9	116 12	CAGUAS	1919 1919 1909	11 15	157 72	1,075	92 16	829 47	1, 186 124
Foundry and machine-shop products.	1919 1900	5 6	271 188	303 239	193 64	388 58	749 178	MAYAGUEZ	1919 1909	52 56	691 479	2,502 484	325 119	2,475 1,750	3, 397 2, 256
Ice, manufactured	1919 1909	13 6	. 86 38	956 237	36 10	86 29	249 100	PONCE	1919 1909	38 37	1,544 971	3, 312 2, 886	649 252	3, 083 1, 598	4,606 2,400

MANUFACTURES-PORTO RICO.

TABLE 19.—DETAILED STATEMENT OF ALL INDUSTRIES

								-	·		11					11
		ſ	11.		PERS	ONS EI	NGAGE	THI NI C	E INDUSTRY.		WAGE	EARNER REPRES	S DEC. 1 SENTATI	I5, OR N VE DAY	EAREST	14:
		lts.			Sala-	Clerk	s, etc.		Wage earn	ers.		16 an	d over.	Und	ler 16.	
.	industry.	Number of establishments		Pro-	ried offi- cers,			#4 6	Number, 1	5th day of—						Capital,
	And the second of the second o	festabl	Total.	tors and firm mem-	perin- tend- ents,	Male.	Fe- male.	Aver- age num-			Total.	Male.	Fe- male.	Male.	Fo- male.	
		mber o		bers.	and man- agers.		maio.	ber.	Maximum month.	Minimum month.						
	· · · · · · · · · · · · · · · · · · ·	Nu						+ . '.						<u> </u>	<u> </u>	
	THE	TER	RITORY	ALI	IND	USTR	IES C	OMBIN	ED AND S	PECIFIED	INDUS	TRIES.		1	· · · · · · · · · · · · · · · · · · ·	,
	industries		18, 454	787	791	820	71	15, 985	De 18,341	Je 10, 956	(8)	(8)	(8)	(B)	(8)	Dollars. 84, 151, 310
3 Boot and 4 Bread and	shoe shops I other bakery products tile and wagons, including	152	132 1, 236 23 26	32 191 7 9	3 2 48	1 2 116	1	17 96 880 16 17	Se 4 19 De 100 De 921 Oc 20 Fe 4 18	Ja 4 15 Jy 4 93 Ja 855 Ja 4 13 Jy 4 16	18 99 919 21 17	17 98 913 21 17	1 1 1	5		46, 030 50, 468 748, 617 11, 181 11, 775
7 Clothing,: 8 Coffee, cle 9 Flour-mill 10 Food pre specified	men's aning and polishing l and gristmill products parations, not elsewhere	5 31 10 6	198 701 29 142	8 98 15 6	3 6 5	6 19 3 2	2	179 578 11 129	Au 4 192 De 804 Je 13 Jy 133	Ja 4 142 Au 45 Jy 9 No 122	192 893 16 130	6 198 16 54	176 695 76		10	159, 977 711, 172 19, 006 209, 279
11 Foundry a 12 Ice, manu 13 Lime	and machine-shop products. facturedd stone work	13 19	304 123 79	12 15 15	1 11 2	19 10	1 1	271 86 62 5	Oc 348 (b) 86 De 84 Oc 11 No 28	Mh 228 (6) 86 Mh 50	329 86 112	329 80 112 11		6		941, 781 838, 859 26, 359
15 Mattresses 16 Mineral ar 17 OII, essent	s and spring bedsd soda watersial	3 11 3	11 28 101 9	5 4 32 7	1 5 7	1 6		18 56 2 3	De 4	Ap 4 Ap 14 Ja 30 Ja 1	11 21 58 5	21 47 5	9	2		6, 083 54, 382 124, 856 4, 800
18 Patent me 19 Printing a job: Job	dicines and compounds and publishing, book and printing. nd publishing, newspapers	4 11 24	16 183 270	6 18 15	3 5 36	3 14 32	1 3 19	143 168	Se 6 Jy 1 146	Ja 136	147 192	138 185	9			4, 800 7, 033 296, 020
21 and peri Printi prin	odicals. ng, publishing, and job ting.	21	259	14	29	30	18		De 191	Æe ∞∷ 151	192	185	6	1		347, 261 336, 911
23 Sugar, can 24 Tobacco, c 25 Trunks an	thing without printing	3 55 183 4 32	8, 466 5, 583 52 715	1 64 189 4 29	7 422 196 1 34	2 464 88 1 33	26 12 2 3	7, 490 5, 098 44 616	Fe 12, 524 Se 10, 053 Je 4 46	Jy 3,626 Mh 1,188 Ja 4 42	11, 824 9, 874 45	11,682 6,792 82	3, 077 13	113	2	10, 350 66, 328, 767 12, 488, 188 43, 671 1, 175, 745
*All other i	industries embrace— preserving, fruits————————————————————————————————————		21	steam	ı-railros	id com	nanies		and repairs	by Co	pper, tin	, and sh	eet-iron	work.		
electric-railro	at snop construction and repaid companies	pairs b	1	Clothin	te and g, wom	cocoa j	produc			3 Fe 2 Fu 1 H	irniture. and stam	ps		*******		
	CITIES OF 50,000	INHAI	BITANT	sori	MORE	-ALI	IND	USTRII	ES COMBIN	ED AND S	PECIFI	ED INI	DUSTR	ies.		
	JAN—All industries	47	3,039	51	133	129	30			Mh 807	4,974		1,517	3	-	7,696,276
3 Printing a	other bakery products and publishing, book and printing.	3 4	42 158	6 5	3 4	16 14	3	il.	No 4 22 Jy 4 135	Ja 1 16 Ja 125	23 136	23 128	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •		21,100 287,755
and period	ng, publishing, and job	12 9	190 179	5	30 23	29 27	17 16	109	No 4 117	Fe 101	117	110 110	6	1(, 4 * 4 x v in	293,722 283,372
6 Publis 7 Tobacco, c	ting. hing without printing igars and cigarettes udustries*	3 11 17	11 2,059 590	1 8 27	7 83 13	2 38 32	1 5 5		Se 4,200	Ap 124	4,109 589	2,733	1,376			10,350 5,670,094
* All other	industries embrace—]	l j		- 1		1		and repairs	by Ci		160	127			1,423,005
Boot and shoe	shops		•							•	othing, n offee, clea		d polish	ing		2
		ITIES	OF 10,0	00 TO	50,000	AHNI	BITAI	A—STV	LL INDUS	TRIES CON	IBINED	•				
2 BAYAMON. 3 CAGUAS 4 MAYAGUEZ	3	18 10 11 52 38	469 859 181 813 1,739	37 11 11 60 47	18 35 8 34 103	13 35 4 26 41	1 3 1 2 4	775 157	Fe 632 Se 1,182 My 205 My 956 No 2,363	Je 157 Jo 48 No 102 Au 531 Je 802	571 1,618 203 811 2,600	571 1,233 201 677 1,973	385 134 720			4,031,296 2,575,362 1,202,476 1,580,570 6,152,074

¹ Includes water wheels and turbines (irrespective of ownership of water supply).

² Chiefly electric motors operated by rented (or purchased) current; other power included (chiefly shaft-belt or transmitted power from neighboring power plants).

			EXP	ENSES.												
Sals	ries and w	9008		Pont as	ıd taxes.							P	OWER.			11
1.70410		ages.		- Kent ar	id taxes.	For ma	aterials.				Prir	nary ho	rsepow	er.		Elec
			For		10- 10- 10-10-	FULLE		Value of products.	Value added by manufac-			Own	ed.			tric horse powe
Officials.	Clerks, etc.	Wage earners.	contract work.	Rent of factory.	Taxes, Federal, insular, and local.	Principal materials.	Fuel and rent of power.		ture.	Total.	Steam engines (not tur-	Steam tur- bines.	Inter- nal- com- bus- tion	Water pow- er.1	Rent- ed.2	gener ated i estab lish- ment report
	<u> </u>								Tr. I signi.	i. Gir	bines).	.X	en- gines.	14		ing.
	e de ales	1 1	THE	TERRIT	ORY—A	LL INDUSI	TRIES CO	MBINED A	ND SPECI	FIED I	DUSTI	RIES.	4, 45, 71	1.14.	4 fr fr	
Dollars. , 553, 119	Dollars. 785, 742	Dollars. 6, 765, 604	Dollars. 157, 784	Dollars. 405, 024	Dollars. 1,789,716	Dollars. 58,720,395	Dollars. 1,106,879	Dollars, 85,506,834	Dollars. 25, 679, 560	67, 226	61,612	2, 299	1,172	22	2, 121	6,016
3, 525 2, 136 53, 214	75 1, 164 71, 942	6,583 43,944 514,140	167 30	795 2,696	8, 553 616	108, 930 119, 523,	1,064 480	172,375 240,789 4,761,192	62, 381 120, 786	3 2					3 2	
	71,042	4, 921 6, 848	au	47, 379 72	10,632 160 82	3, 249, 766 2, 546 3, 905	176,254 570 577	4,761,192 15,308 21,210	62, 381 120, 786 1, 335, 172 12, 192 16, 728	630			367		263	
4, 420 5, 676	7, 560 16, 156 1, 960	55, 234 227, 125 5, 085	7,500	3,600 884	4, 296 7, 439	148,564 10,884,990	1,405 49,852	262, 456 11, 443, 636		15 1,575	1,270		3	22	15 280	1.45 k/.
8,472	1,788	29, 578	1, 550 280	180	2,372	78, 593 185, 540	4,415 -1117,731	115,916 296,015	112, 487 508, 794 32, 908 102, 744	155 76	39	******	53 1 0		102 27	
3,000 17,461 300	26,006 15,321 416	192,610 35,882 19,074	500	3,720 240 900	19,363 4,351 231	352, 456 33, 289 10, 014	35,621 52,323 11,145	749, 268 248, 889 58, 014 14, 755	361, 191 163, 277	303 956	775		31 51		272 130	
3,959 7,767	244 360 4,063	1,850 4,507 20,739	554	1,560 360 2,464	61 235 830	2, 126 19, 970 46, 227	1, 135	08.700 [36, 855 12, 629 17, 650	30			22		8	
2,433	410	987 750		1,096	103 305	4,508 6,318	2,866 1,438	134, 402 12, 900 20, 806	85, 309 6, 954 14, 488	43 2	<u>ż</u>		25		18	
12,060 43,579	7, 744 83, 135	70, 071 117, 029	37, 120	14,068 14,673	4, 943 4, 242	45,931 167,258	4, 545 5, 784	204, 045 467, 542	153, 569 294, 500	37 107	• • • • • • • • •		8		37 99	
33, 179	31, 155	117,029		13, 833	4, 242	167, 258	5,784	427,642	254,600	107	•••••		8		99	
10, 400 112, 944 216, 210	1,980 477,663 86,134	2, 832, 022 2, 267, 204	37, 120 77, 623	840 254, 641 41, 391	1,309,384 842,205	39, 362, 738 3, 033, 820	698,998 5,721	39,900 56,411,932 8,134,534	39,900 16,350,196 5,094,993	62, 150 55	58,917	2, 299	477		457 55	5,947
1, 200 54, 763	86, 134 744 32, 857	23, 611 285, 810	32, 460	41, 391 2, 600 11, 705	342, 205 477 68, 524	65,695 787,688	180 44,775	85, 806 1, 596, 289	19, 931 763, 826	1,078	609		125		9 344	69
uit goods ather, ta quors, di quors, m	.21.1.5	********	nished F 50,000 I	•••••	2 pla 1 Millin 1 Perfu	ning mills co nery and lace mery and co	nnected wi goods smetics	iucts, not ith sawmills.		Salt. Sand Tobs	-lime bri cco, plug	or chew	ing		••••••• ••••	
179,150	136, 233	1,397,631	50,580	57, 820	162,510	2,400,718	92,100	6,712,723	4, 210, 905	954	265				689	69
4,200 11,700	7,180 7,744	15,000 66,717		3,620 13,264	471 4,848	82,902 40,591	6,028 4,520	135,937 181,505	47,007 136,394	6 35					6 35	
39,755	31,678	84,447	87, 120	11,473	3,864	147,087	5,204	377,924	225,653	85					85	
29, 355	29,698	84, 447		10,633	3,864	147,067	5,204	338,024	185,753	85					85	-
10,400 96,930 26,565	1,980 36,629 53,002	922, 896 308, 571	37,120 13,460	840 14,899 14,564	74, 014 79, 313	1,291,545 847,613	2,828 73,520	39,900 4,414,622 1,602,735	39,900 3,120,249 681,602	29 799	265				29 534	69
indry a	ad machin	e-shop proc	lucts		1 Liqu 2 Lum 1 pla	ors, malt ber, planing ning mills co	mill produced w	lucts, not i	ncluding	Mine	resses an eral and s iks and v	oda wat	ers	<u>.</u>		
			О	ities of	F 10,000 T	O 50,000 IN	HABITAI	NTS—ALL I	NDUSTRIE	s comi	BINED.					
88,814 45,879 17,120 52,142 149,955	12, 403 33, 196 6, 100 21, 429 39, 472	135, 579 304, 167 92, 014 325, 208 649, 015	1,040 554	2,680 6,412 2,640	39, 687 35, 968 16, 703	1,658,705 1,291,911 800,638 2,435,024	52,751 8,314 28,710 40,280 58,961	2,300,062 1,851,023 1,186,223 3,396,698 4,605,714	589,606 550,798 356,880 921,394 1,522,278	3,287 1,634 1,075	3, 225 1, 200 1, 000 2, 358 2, 975	400	42		20 34 75	250 218 268

⁵ No figures given for reasons stated under "Explanation of terms."

⁶ Same number reported for one or more other months.

⁶ Same number reported throughout the year.

MINES AND QUARRIES.

The gross value of products of all quarries (there | being no mines reported as such) in Porto Rico in 1919 amounted to \$158,157. It is of interest to note that | cent and value of products 2,797.2 per cent.

while the number of quarries decreased 7.1 per cent during the decennial period, capital increased 143.2 per

TABLE 20.—MINES AND QUARRIES—COMPARATIVE SUMMARY OF PRINCIPAL STATISTICS FOR PORTO RICO: 1919 AND 1909.

	1919	1909		1919	1909
Number of operators. Number of quarries.	13 13	14 14	Expenses (selected items); Salaries	\$9,583 56,279 10,653 5,557	\$3,851 } 390
Number of persons employed: Salaried employees			Wages. Materials and supplies. Fuel and power purchased.		
Wage carners (average number)	183 35	1 156 25	Rent and royalties	8, 789 1, 343	(²) 257
Capital	35 \$84, 173	\$34,605	Value of products	158, 157	5, 459