

DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

SAM. L. ROGERS, DIRECTOR
RESIGNED APRIL 18, 1921

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

FOURTEENTH CENSUS OF THE UNITED STATES
TAKEN IN THE YEAR 1920

VOLUME VIII

MANUFACTURES

1919

GENERAL REPORT AND ANALYTICAL TABLES

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



*Bureau of the Census
Library*

WASHINGTON
GOVERNMENT PRINTING OFFICE
1923

REPORTS OF THE FOURTEENTH CENSUS.

POPULATION:

- Volume I.—NUMBER AND DISTRIBUTION OF INHABITANTS.
- Volume II.—GENERAL REPORT AND ANALYTICAL TABLES.
- 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.

MANUFACTURES:

- Volume VIII.—GENERAL REPORT AND ANALYTICAL TABLES.
- Volume IX.—REPORTS FOR STATES, WITH STATISTICS FOR COUNTIES AND 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., April 27, 1922.

SIR:

I transmit herewith Volume VIII of the Reports of the Fourteenth Decennial Census, relating to manufactures.

The report on manufactures consists of three volumes and an Abstract of Manufactures. This volume 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 contains a separate report on the manufactures of each state and territory, with special statistics for the different industries in the state, each report having been previously issued as a bulletin. Volume X contains special reports relating to leading industries, which were also published as a series of bulletins.

The collection and compilation of the statistics and the preparation of the text were done 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,

W. M. STEUART,
Director of the Census.

Hon. HERBERT HOOVER,
Secretary of Commerce.

(3)

CONTENTS.

	Page.		Page.
CENTERS OF POPULATION, FARMS, AGRICULTURAL PRODUCTS, AND MANUFACTURES.....	8	CHARACTER OF OWNERSHIP:	
INTRODUCTION AND EXPLANATION OF TERMS.....	9	Character of ownership, by industries: 1919 and 1914.....	108
GENERAL STATISTICS:		Character of ownership, by geographic divisions and states: 1919 and 1914.....	119
Continental United States and noncontiguous territories: 1919.....	14	POWER USED IN MANUFACTURING:	
Comparative summary: 1919, 1914, 1909, 1904, and 1899..	14	Number and horsepower of types of prime movers: 1869 to 1919.....	122
Comparative summary: 1849 to 1919.....	14	Number and horsepower of types of prime movers, by in- dustries: 1919.....	123
Governmental establishments: 1919, 1914, and 1909.....	15	Number and horsepower of types of prime movers, by geographic divisions and states: 1919.....	129
Power laundries: 1919, 1914, and 1909.....	15	FUEL CONSUMED:	
Dyeing and cleaning: 1919.....	15	Fuel consumed, by industries: 1919 and 1914.....	131
Custom sawmills: 1919 and 1909.....	16	Fuel consumed, by geographic divisions and states: 1919 and 1914.....	140
Custom gristmills: 1919 and 1909.....	16	FOURTEEN GROUPS OF INDUSTRIES:	
Principal industries, ranked by value of products: 1919..	16	Summary for 14 general groups of industries: 1919, 1914, 1909, 1904, and 1899.....	146
States, ranked by value of products: 1919.....	18	Food and kindred products: 1919.....	147
Geographic divisions, ranked by value of products: 1919..	18	Textiles and their products: 1919.....	148
Leading cities, ranked by value of products: 1919.....	19	Iron and steel and their products: 1919.....	149
PERSONS ENGAGED IN MANUFACTURING INDUSTRIES:		Lumber and its remanufactures: 1919.....	151
Persons engaged in manufacturing industries: 1919, 1914, and 1909.....	20	Leather and its finished products: 1919.....	151
Wage earners employed each month, according to sex, by industries: 1919.....	21	Paper and printing: 1919.....	152
Wage earners employed each month, according to sex, by geographic divisions and states: 1919.....	37	Liquors and beverages: 1919.....	152
Wage earners employed each month, for selected indus- tries, by states: 1919.....	40	Chemicals and allied products: 1919.....	153
PREVAILING HOURS OF LABOR:		Stone, clay, and glass products: 1919.....	154
Average number of wage earners, by prevailing hours of labor per week, in establishments where employed, by industries: 1919 and 1914.....	70	Metals and metal products, other than iron and steel: 1919.	155
Average number of wage earners, by prevailing hours of labor per week, in establishments where employed, by geographic divisions and states: 1919 and 1914.....	81	Tobacco manufactures: 1919.....	156
SIZE OF ESTABLISHMENTS:		Vehicles for land transportation: 1919.....	156
Size of establishments, by average number of wage earners, by industries: 1919.....	85	Railroad repair shops: 1919.....	156
Size of establishments, by average number of wage earners, by geographic divisions and states: 1919.....	90	Miscellaneous industries: 1919.....	157
Size of establishments, by value of products: 1919, 1914, and 1909.....	91	GENERAL TABLES:	
Size of establishments, by value of products, by industries: 1919.....	92	Comparative summary for the United States, by indus- tries: 1919 and 1914.....	160
Size of establishments, by value of products, by geographic divisions and states: 1919 and 1914.....	102	Comparative summary for the United States, by geographic divisions and states: 1919, 1914, 1909, and 1904.....	171
Manufactures, by population groups, of cities of 10,000 inhabitants or more: 1919, 1914, and 1909.....	106	Comparative summary for selected industries, by states: 1919, 1914, and 1909.....	174
		Comparative summary for cities having 10,000 inhabitants or more, by states: 1919, 1914, and 1909.....	224
		Summary for counties, by states: 1919.....	239
		Detailed statement for the United States, by industries: 1919.....	278
		Detailed statement for the United States, by geographic divisions and states: 1919.....	296
		Detailed statement for all industries, by states: 1919.....	298