

DEPARTMENT OF THE INTERIOR,

CENSUS OFFICE.

ROBERT P. PORTER,
Superintendent.
Appointed April 20, 1889; resigned July 31, 1898.

CARROLL D. WRIGHT,
Commissioner of Labor in charge.
Appointed October 5, 1893.

REPORT

ON THE

SOCIAL STATISTICS OF CITIES

IN

THE UNITED STATES

AT THE

ELEVENTH CENSUS: 1890.

JOHN S. BILLINGS, M. D., surgeon united states army, expert special agent.



BUNEAU OF THE SE .30.

WASHINGTON, D. C.: GOVERNMENT PRINTING OFFICE. 1895.

CONTENTS.

Letter of transmittal of the Commissioner of Labor in charge to the Secretary of the Interior.	Page. Vit
Population on June 1, 1890, increase since 1880, and per cent of total population living in cities	1, 2
ATTITUDE— 1 Proportion of population living in each altitude, by geographical divisions. An orage altitude, by population groups and by geographical divisions. 11 ighest, lowest, and average altitude for cities containing 50,000 inhabitants and upward	8 5,1 6
AREA AND DENSITY OF POPPLATION— Number of acres, population per acre, number of dwellings per acre, persons to each dwelling, and death rates, by population groups and by geographical divisions, and death rates for each of the 50 larger cities. Denth rates in each principal city, by wards. Comparison of the area, population, and density of population of the principal cities of the United States and foreign countries.	7, 8 9-12
BOARDS OF HEALTH Members, and percentage of physicians to mombership, and average annual expenditures, by population groups and by geographical divisions.	1-1
ETREFEE AND ALLEYS— Longth, miles paved, percentage paved, population to each mile, kinds of pavement, and average annual cost of construction and repairs, by population groups and by geographical divisions. Average annual cost of construction and repairs, and average annual cost of cleaning, for 45 of the larger cities. Longth, miles paved, materials, percentage paved; number of persons, water mains, hydrants, sewers, and street lamps to each mile of street; building area, and dwellings and persons to each acre, in 48 cities (for streets only)	15~17 18
STREET LIGHTING— Number of lamps, annual cost, and population per lamp, by population groups and by geographical divisions Number of lamps, annual cost, and population per lamp, by population groups and by geographical divisions Lopulation per lamp and cost per capita for cities using electric lights only, and for cities using gas only	20 21 22
WATERWORKS— Sources of supply of water for 288 cities Distribution of population in relation to source of supply and average daily consumption of water, by geographical	ipin niti mm, met
Civisions. A verage daily consumption and cost of works, by population groups and by geographical divisions. Citaracter of distributing works. L'opulation to each mile of main, cost of works, average annual cost of maintenance, and average annual receipts from water vents, by population groups and by geographical divisions.	28 24 25, 26
Pulation to each mile of main and to each tap, number of motors to each 100 taps, cost of works, average annual cost of maintenance, average annual receipts from water rents, and annual charge for water per dwelling, by cities	27 28 20
List of cities having no sewers	29, 80 30, 31 32 33
City area and park area, by population groups and by geographical divisions. Cost of land in parks and cost of improvements, by population groups. Purk area, cost of land, and cost of improvements in principal cities.	34 34, 35 35
CEMIETERIES— Total area, area inside city limits, and interments, by population groups and by geographical divisions. Cometery area inside city limits and average number of interments, by principal cities	36, 37 37

CONTENTS.

Public Buildings—	Page.
Cost for construction and cost per capita, by population groups and by geographical divisions	38
Cost of city halls for construction and per capita, by population groups and by geographical divisions	38
Cost of city halls for construction and per capita, by principal cities	39
PLACES OF AMUSEMENT—	
Number, percentage of total number, and seating capacity, by population groups and by geographical divisious	40
Number and seating capacity, by principal cities	41
Saloons-	
Number and proportion to each 1,000 of population, by population groups and by geographical divisions	42
Total yearly license for each saloon, by principal cities	42
Public vehicles—	
Total number, number per 1,000 of population, and annual licenses, by principal cities	43
Licensed dogs—	
Average annual number licensed, amount of license required for each sex, and number per 1,000 of mean population, by	
principal cities	44
Fire Department—	
Number and classification of force, percentage of total force to each 1,000 of population, number of apparatuses, and loss	
by fire, total and per capita, by population groups and by geographical divisions.	45, 46
Number of apparatuses, fire alarm boxes, total loss by fire for the year, and death rate per 1,000 of force, by principal cities.	46
POLICE DEPARTMENT—	
Total force and number of patrolmen, by population groups and by geographical divisions	
Number of patrolmen, average annual arrests, cost of force, number of dwellings to each patrolman, and average annual	47
arrests to each member of the force, by principal cities	48
	40
SUBURBAN TRAVEL—	
Number of trains, number of passengers carried annually, number of commuters, with percentages, by population groups	
and by geographical divisions.	49
Statistics of suburban travel within a radius of 20 miles, by principal cities	50
GENERAL TABLES—	
Table 63.—Altitude, area, board of health, etc.	53-57
Table 64.—Streets	58 – 62
Table 65.—Street lighting	63-67
Table 66.—Waterworks	68 - 77
1 able 67.—bewers	78-87
Table 68,—Parks	88-92
Table 69.—Cemeteries	93-97
Table 70.—Public buildings	98-107
Table 71.—Amusements, saloons, public vehicles, and licensed dogs	108-117
Table 72.—Fire department.	118-127
Table 73.—Police department	128-132
Table 74.—Railroads	133-137

ILLUSTRATIONS.

CARTOGRAM.

Proportio	u of total population of each state living in cities of 10,000 inhabitants and upward on June 1, 1890	Page.
	DIAGRAMS.	
	1.—Growth of the 28 cities having a population of 100,000 or over on June 1, 1890, as shown by each census from 1800 to 1890, by groups of cities on different scales.	2
DIAGRAM	2.—Proportion of the aggregate population of 339 cities which lived in various altitudes June 1, 1890	3
Diagram	3.—Density of the population to total area, with comparison of death rates, for the 50 largest cities of the country 4.—Total length of streets and alleys and the proportion paved, also the percentage of paving in each group, by	8
	population and by geographical divisions.	15
DIAGRAM	5.—Total number of miles of paving in the 262 cities, by classes.	15
	6.—Classes of paving, by percentage of total length paved, for 262 cities, by population and by geographical groups	16
DIAGRAM	7.—Cost of street work for cleaning	18
	8.—Percentage of the total length of all streets paved in each of the 43 cities	19
	9.—Distribution of the dwellings in 44 cities in accordance with total and actual building area	19
DIAGRAM	10.—Density of population per acre of actual building area for 44 cities, with comparison of death rates for those	T.
	having a registration system.	19
Diagram	11.—Proportion of each class of public street lamps for the grand total and for population and geographical groups.	20
	12.—Street lighting in the principal cities:	22
Diagram	13.—Cost per capita and population per lamp for cities using electric lights only.	22
DIAGRAM	14.—Cost per capita and population per lamp for cities using gas lamps only	22
DIAGRAM	15.—Amount of water used in the larger cities in accordance with the population.	24
Diagram	16.—Consumption of water in German cities	24
DIAGRAM	17.—Distribution of population according to character of waterworks.	24
	18.—Distribution of population in relation to total length of all sewers for 217 cities.	80
DIAGRAM	19.—Distribution of the population in relation to sewers in each of the 50 larger cities	30
DIAGRAM	20.—Distribution of population in relation to sowers in 17 German cities.	30
DIAGRAM	21.—Percentage of pipe and brick and stone sewers for 200 cities, by magnitude of population and of total sewers	31
DIAGRAM	22.—Total cost of sewers, by population and by geographical groups, for 182 cities	81
Diagram	23.—Per capita cost of waterworks and sewers	83
Diagram	24.—Miles of water mains and sewers to each mile of paved streets and alleys	33
Diagram	25.—Distribution of population in relation to total park area (212 cities).	34
Diagram	26.—Percentage of improved park area (212 cities)	34
Diagram	27.—Cometeries inside city limits (168 cities).	86
Diagram	28.—Interments in intramural cemeteries	38
Diagram	.29.—Cost of public buildings per capita (290 cities).	. 38
Diagram	30.—Seating capacity of theaters and halls per 1,000 of the population (262 cities)	40
Diagram	31.—Number of saloons to each 1,000 of the population (257 cities)	42
Diagram	32.—Total force and regular men of the fire department (299 cities).	45
Diagram	33.—Police department patrolmen (310 cities)	17

LETTER OF TRANSMITTAL.

DEPARTMENT OF THE INTERIOR, CENSUS OFFICE, WASHINGTON, D. C., November 22, 1894.

SIR:

I have the honor to transmit the following special report upon the Social Statistics of Cities, by Dr. John S. Billings, United States army, expert special agent of the Census Office.

This report pertains to cities of over 10,000 inhabitants. The statistics and illustrations presented have been prepared by Mr. Harry Tiffany and Mr. John D. Leland. The report is made to conform, as far as practicable in its statistical material, to the report upon statistics of cities published in the Tenth Census. It was not practicable to obtain data on certain points in the same form from all cities, owing in part to the varied methods of keeping accounts and of the distribution of functions of city governments.

Very respectfully,

CARROLL D. WRIGHT,
Commissioner of Labor in charge.

The SECRETARY OF THE INTERIOR.

vii