FOURTEENTH CENSUS OF THE UNITED STATES: 1920

DEPARTMENT OF COMMERCE

BULLETIN

BUREAU OF THE CENSUS SAM. L. ROGERS, DIRECTOR

POPULATION: CANAL ZONE

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INTRODUCTION.

This bulletin gives the results of the census of the Canal Zone, which was taken by the Governor of The Panama Canal as of January 1, 1920, in accordance with plans prescribed by the Director of the Census, as required by the act of Congress approved March 3, 1919, providing for the Fourteenth and subsequent decennial censuses of the United States.

Acquisition.—The United States acquired sovereignty over the territory now comprising the Canal Zone by a treaty of November 18, 1903, concluded with the Republic of Panama, which was formerly a department of the Republic of Colombia. By this treaty Panama granted to the United States "in perpetuity the use, occupation, and control of a zone of land and land under water" of the width of 10 miles for "the construction, maintenance, operation, sanitation, and protection" of a ship canal across the Isthmus of Panama. The cities and harbors of Panama and Colon were expressly excluded from this grant, but the United States was given authority to prescribe and enforce sanitary ordinances in these cities and under extraordinary circumstances to maintain public order there. Compensation to Panama in the form of a lump-sum payment and an annual rental, payable beginning nine years after the exchange of ratification, was provided for. The treaty was ratified on February 26, 1904.

Area.—The extent of the Canal Zone was defined in the treaty of November 13, 1903, with Panama as follows:

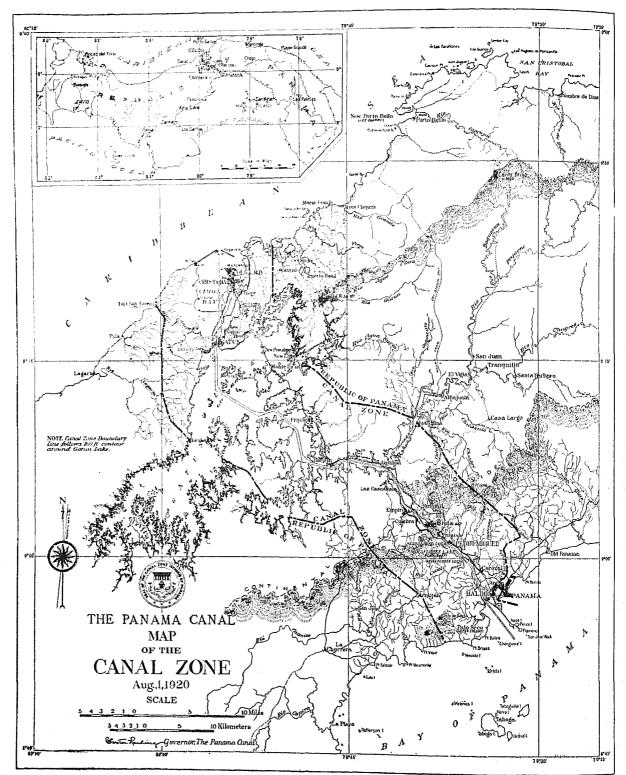
The Republic of Panama grants to the United States in perpetuity the use, occupation, and control of a zone of land and land under water * * * of the width of ten miles extending to the distance of five miles on each side of the center line of the route of the canal to be constructed; the said zone beginning in the Caribbean Sea three marine miles from mean low water mark and extend-

ing to and across the Isthmus of Panama into the Pacific Ocean to a distance of three marine miles from mean low water mark with the proviso that the cities of Panama and Colon and the harbors adjacent to said cities, which are included within the boundaries of the zone above described, shall not be included within this grant.

The grant further included "all islands within the limits of the zone above described and in addition thereto the group of small islands in the Bay of Panama, named Perico, Naos, Culebra, and Flamenco."

The Republic of Panama further granted "in perpetuity the use, occupation, and control of any other lands and waters outside of the zone above described which may be necessary and convenient for the construction, maintenance, operation, sanitation, and protection of the said canal or of any auxiliary canals or other works necessary and convenient for the construction, maintenance, operation, sanitation, and protection of the said enterprise."

Under the provisions of the treaty the United States subsequent to a decree from Panama of May 17, 1912, took over the islands in Lake Gatun, the shores of the lake up to an elevation of 100 feet above mean sea level, and the peninsulas bordering on it to which there is no access except from the lake or from land in the Canal Zone. The boundaries of this area were established in a convention of September 2, 1914, ratified in 1915, between the United States and Panama. This convention also effected a readjustment of boundaries, mainly by the exchange of lands adjoining the city of Panama for certain harbor areas in the city of Colon needed to bring within the Canal Zone all the terminal construction along the mole and all the water area in front of Toro Point in Limon Bay in the lee of the breakwater.



The present area of the Canal Zone, including land and water, within the limits of 5 miles on either side of the center line of the canal but not including the area within the 3-mile limit from the Atlantic and Pacific ends, is 441.5 square miles. The land area of the 10-mile strip is 332.4 square miles. The areas outside the original 5-mile limits which are under the control of the United States Government are officially

designated as auxiliary areas of the Canal Zone and include, in addition to portions of Gatun Lake and its shores, several small areas taken over for canal or military purposes. The area of the portions of Gatun Lake outside the original 10-mile strip is 61 square miles, but a detailed survey of the entire area bordering the lake has not been made.¹

NUMBER OF INHABITANTS.

Censuses of population.—In 1904, the year in which the United States took over control of the Canal Zone, a census was taken by order of the newly appointed Isthmian Canal Commission. In 1906, between March 8 and 10, a census of towns in the Canal Zone was taken by the Sanitary Department, showing the number of "whites," "blacks," and "yellows"; and it was stated that an addition of 5 or 10 per cent should be made for persons living in outlying districts who were indirectly connected with canal work. Between March 3 and June 23, 1908, a census of population was taken by the Canal Commission of the towns, villages, and labor camps adjoining the Panama Railroad, and the totals for this were added to the results of a census of rural districts taken in July, 1907. These returns showed data for towns according to race and sex, and a distribution according to nationality for the total number enumerated, with the number of employees of the Canal Commission and the Panama Railroad, besides the number of single and married men and women, respectively, and the number of children, by sex, for white persons from the United States.

In 1912 a complete and detailed enumeration was made of all the inhabitants of the Canal Zone, which comprised the military and naval population and included also figures for employees of the Isthmian Canal Commission and the Panama Railroad living outside the Canal Zone proper at Canal Commission settlements. In addition all employees of the Isthmian Canal Commission and the Panama Railroad who were employed in the Canal Zone but resided in the cities of Panama or Colon were enumerated, but were not included in the total for the Canal Zone.

At the census of 1912, which was the only enumeration prior to 1920 giving details as to the characteristics of the population, the data shown comprised for each town and the rural part of each administrative district figures as to sex, color or race, and broad age groups, as well as the number of employees of the Canal Commission or the Panama Railroad and the number of other persons gainfully employed, the latter being shown by broad occupation classes. For the total population of the Canal Zone data were

given as to country of birth (for persons born in the United States also the state of birth), citizenship, number single or married among those born in the United States, illiteracy, and number, according to birthplace, whose first residence in the zone dated from a period before the ratification of the first treaty with Panama.

Under a presidential order of December 5, 1912, referred to as the depopulation order, the chairman of the Canal Commission was authorized to take possession in behalf of the United States of all land in the Canal Zone. As the work of depopulating the zone progressed, the inhabitants who were not in the employ of the United States either removed to the terminal cities or left the Isthmus altogether. During the fiscal year 1913–14 house-to-house canvasses of the population were made by the police at frequent intervals, but figures for only two of these enumerations are available. In December, 1914, and July, 1915, censuses were also taken by the police, since which time there has been an annual police census near the end of the fiscal year.

The census of 1920, which is the first census of the Canal Zone taken under the supervision of the Bureau of the Census, presents details as to sex, race or color, nativity, parentage, age, marital condition, and illiteracy for the total population and for the civilian and the military and naval population separately. Separate figures for the two population groups are given as regards school attendance and inability to speak English. Data as to occupations are presented for the civilian population.

Population changes.—Table 1, on the next page, shows the population of the Canal Zone as returned at successive enumerations made since the United States took over the control of the territory. At the police censuses, and probably at the early censuses, the methods of enumeration differed from that followed at the Federal census of 1920, and therefore only the most general comparisons can be made of the figures given in this table.

¹ See Circular No. 651-1 of Aug. 23, 1920, signed by the Governor of The Panama Canal. (The Panama Canal Record, Sept. 8, 1920, p. 54.)

Table 1.—Population: 1904 to 1920.

	P	OPULATION.	
CENSUS DATE.	Total.	Civilian.	Military and naval.
1920, Jan. 1.	22,858	17,964 * 21,759	4,894
1919, Aug. 20 to 31 1918, June 20 to 30 1917, June 10 to 30 1916, June 1 to 10 2 1915, July 10 2 1914, Dec. 22, to Jan. 1, 1915 2 1914, June 16 to 30 2 1914, June 31 to Feb. 10 2 1912, Feb. 1 1908, Mar. 3 to June 23 5 1906, Mar. 8 to 10	31,048 29,926 31,160	21, 707 23, 295 22, 530 23, 483 27, 367 35, 459 (3) (4) (4) (4)	(1) (1) 8,218 6,443 3,793 2,247 (2) (4) (3) (3)

The population of the Panama Canal Zone may be said to have been created or called into existence by the construction of the Panama Canal, and the growth and decline of the population have been mainly determined by the labor requirements for that work.

In 1904, when the United States first assumed control of the strip of land 10 miles wide extending from ocean to ocean across the Isthmus and constituting the Canal Zone, the territory contained a population of less than 10,000 people. Eight years later, as shown by the census of 1912, the population had increased to over 60,000, the increase, of course, consisting mainly of laborers who had come to the zone from other parts of the world to work on the canal. Since that census there has been a general decrease in the civilian population, with the exception of slight increases shown by the police censuses of June, 1917, and August, 1919. The population shown at the police census of 1919 was much larger than the figure for the Federal census of January 1, 1920, the difference representing largely transients and workers temporarily residing in the Canal Zone but permanently domiciled in the Republic of Panama. A large part of the decrease in population since 1912 is due to the Executive order of December 5, 1912, previously mentioned, which resulted in the depopulation of the

Canal Zone of native landowners and squatters; but obviously another important factor is the reduction of the force of employees consequent upon the completion of the construction work on the canal. The census of 1912 was taken at a time when the force employed was nearing its maximum, the greatest working force (including contractors' forces) ever reported being 44,733 on March 26, 1913. It should be noted that employees living in the cities of Panama and Colon, which are outside the Canal Zone, are not included in the census figures presented in this bulletin.

The readjustment of boundaries in 1915 did not materially affect comparisons of the total population. as the number of persons in the section taken from the Canal Zone did not differ greatly from the number in the added area.

The population of the Canal Zone is still largely a transient one, fluctuating according to the amount of work involved in the maintenance and operation of the canal and in providing for the needs of canal and railroad employees.

On the basis of a land area of 333 square miles, representing the original 10-mile zone, the density of the population (including military and naval) in 1920 was 68.6 persons per square mile.

In Table 2, for purposes of comparison, the population as reported at the census of February, 1912, has been distributed according to areas conforming as nearly as possible to those shown for 1920; corresponding figures from the police census of June, 1916, have been included.

TABLE 2.—POPULATION, BY DISTRICTS: 1920, 1916, AND 1912.

DISTRICT.	1920	1916	toto	PER CI DECR	
DISTRICT,	1920	. 1916	1912	1916- 1920	1912- 1916
Total	22, 858	31,048	62, 810	26.4	50.6
Balboa district	14,350 8,508	21,450 9,598	34,711 28,009	33.1 11.4	38. 2 65. 8

It should be noted that the figures for 1916 probably include some classes not covered by the Federal census of 1920 or the earlier census taken by the Canal Zone authorities.

¹ No figures for military and naval population published.
2 Police census. These censuses include some classes not covered by the Federal census, e. g.: Transient boarders or lodgers and short-term prisoners whose permanent place of abode is outside the Canal Zone; workers temporarily residing in the Canal Zone but having their hones in the Republic of Panama; servants in Canal Zone homes whose ordinary sleeping place is in the Republic.
3 Separate figures not available.
4 Estimated at 1,200. See The Panama Canal Record, Mar. 21, 1917.
5 Data for rural districts relate to July, 1997.
6 For towns only; from 5 to 10 per cent should be added for the population of outlying territory.

COMPOSITION AND CHARACTERISTICS OF THE POPULATION.

COLOR OR RACE, NATIVITY, AND PARENTAGE CLASSES.

Color or race, nativity, and parentage. - Of the civilian population of the Canal Zone, 42.9 per cent are white and 56.8 per cent Negro, the remainder (0.3 per cent) being Chinese. The military and naval population is 95.2 per cent white.

TABLE 3.-POPULATION, BY COLOR OR RACE, NATIVITY, PARENT-AGE, AND SEX: 1920.

			POPUL!	ATION: 19	920,			
COLOR OR RACE, NA- TIVITY, AND PARENT- AGE.	Both	Male.	Fe-		Per cent tributio		Num- ber of males	
	sexes.	bitale.	male.	Both sexes,	Male.	Fe- male.	to 100 fe- males	
			7	l'otal.		-t		
All classes	22,858	14,586	8,272	100.0	100.0	100.0	176.3	
White Negro Other colored 1	12,370 10,429 59	8,555 5,972 59	3,815 4,457	54.1 45.6 0.3	58. 7 40. 9 0. 4	46. 1 53. 9	221.2 134.0	
Native white. Native parentage Foreign or mixed par. Foreign-born white Native Negro Foreign-born Negro.		7,463 5,345 2,118 1,002 1,391 4,581	3,290 2,389 901 525 1,366 3,091	47.0 33.8 13.2 7.1 12.1 33.6	51. 2 36. 6 14. 5 7. 5 0. 5 31. 4	39.8 28.9 10.9 6.3 16.5 37.4		
	CIVILIAN.							
All classes	17,964	10,305	7, 659	100.0	100,0	100.0	134.5	
White	7,711 10,207 46	4,377 5,882 46	3,334 4,325	42.9 56.8 0.3	42.5° 57.1 0.4	43, 5 56, 5	131.3 136.0	
Native white Native parentage Poreign or mixed par Forcign-born white Native Negro Foreign-born Negro	6,660 4,771 1,889 1,051 2,719 7,488	3,894 2,714 1,090 573 1,364 4,518	2,856 2,057 799 478 1,355 2,970	37. 1 26. 6 10. 5 5. 9 15. 1 41. 7	36.9 26.3 10.6 5.6 13.2 43.8	37. 3 26. 9 10. 4 6. 2 17. 7 38. 8	133. 2 131. 9 136. 4 119. 9 100. 7 152. 1	
	# TO THE PROPERTY OF	44.7/10/14/14/14	MILITAR	Y AND N	AVAL.			
All classes	4,894	4,281	613	100.0	100.0	100.0	698.4	
White	4,659 222 13	4,178 90 13	481 132	95, 2 4, 5 0, 3	$\begin{array}{c} 97.6 \\ 2.1 \\ 0.3 \end{array}$	78.5 21.5	868.6 68.2	
Native white Native parentage Foreign or mixed par Foreign-horn white Native Negro Foreign-born Negro	4,093 2,963 1,130 566 38 184	3,659 2,631 1,028 519 27 63	434 332 102 47 11 121	83. 6 60. 5 23. 1 11. 6 0, 8 3. 8	85.5 61.5 24.0 12.1 0.6 1.5	70. S 54. 2 16. 6 7. 7 1. 8 19. 7	843.1 792.5 1,007.8 (1) (2) 52.1	

¹ Includes 48 Chinese, 10 Filipinos, and 1 Japanese.

All persons born in the United States or any of its possessions are classed as native. The native population of the Canal Zone, as thus defined, comprises the native white, practically all of whom were born in the United States or are children of persons born in the United States, and the native colored, most of whom were born in the Canal Zone. After the President's order of depopulation, as already stated, those natives of the Canal Zone who were not in the employ of the United States moved to the terminal cities or other places outside the zone. The majority of the foreignborn Negroes are natives of the British West Indies, most of them being from Jamaica or the Barbados. The "other colored" in 1920 comprised in the case of the civilian population 46 Chinese and in the case of the military and naval population 10 Filipinos, 2 Chinese, and 1 Japanese.

The native whites form 47 per cent of the total population of the Canal Zone and 86.9 per cent of the total white population. In the civilian population the native whites constitute a lower percentage (37.1) of the total population, but about the same proportion (86.4 per cent) of the total white population.

In the Balboa district, which comprises the Pacific terminal of the canal and the headquarters of the Government and of The Panama Canal and the Panama Railroad, about one-half (50.4 per cent) of the civilian population of 11,547 are white. (See Table 4.) All of the remainder, with the exception of 29 Chinese, are Negroes. In the Cristobal district, on the other hand, which includes the Atlantic terminal of the canal. only 29.4 per cent of the 6,417 persons in the civilian population are white, 70.3 per cent being Negroes.

TABLE 4.-POPULATION OF EACH DISTRICT, BY COLOR OR RACE AND SEX: 1920.

and the control of th			Spenig production is provided by the Spenigs produced and spenigs produced and spenigs are spenigs and spenigs and spenigs and spenigs are	POPULA	TION; 1	920.				
COLOR OF BACE.		Total.	i	C	ivilian.		Militar	y and 1	naval.	
	Both	Male.	Fe- male.	Both sexes.	Male.	Fe-	Both sexes,	Male.	Fe- male.	
St.		CANAL ZONE.								
All classes	22,858	14,586	8,272	17,964	10, 305	7,659	4,894	4,281	61	
White Negro Other colored	12,370 10,429 1 59	8,555 5,972 1,59	3,815 4,457	7,711 10,207. 2 46	4,877 5,882 2 46	3,334 4,325	4,659 222 8 13	4,178 90 13	481 132	
			·	BALEGA	. Distri	CT.			s andros pinap	
All classes	14,550	8, 747	5,643	11,547	6,300	5, 238	2,803	2,438	360	
White Negro Other colored	8,525 5,792 33	5,634 3,089 83	2,891 2,712	5,825 5,693 29	3,215 3,065 29	2,610 2,628	2,700 99 4	2,419 15 4	281 84	
		na amandra yang ipad — ada		CRISTOR	AL DIST	rict.	<u> </u>			
All classes	8, 508	5,839	2,669	6,417	3,996	2, 421	2,091	1,843	245	
White Negro Other colored	3,845 4,637 26	2, 921 2, 892 26	921 1,745	1,886 4,514 17	1,162 2,817 17	724 1,697	1,959 123 9	1,759 75 9	208	

Includes 48 Chinese, 10 Filipinos, and 1 Japanese.
 All foreign-born Chinese.
 Includes 10 Filipinos, 2 Chinese, and 1 Japanese.

Sex ratios.—The ratio of males to females in the civilian population of the Canal Zone in 1920 was 134.5 per 100, as compared with 106 per 100 in continental United States in .1910. In the case of the native Negroes, the only strictly indigenous element, the ratio of males to 100 females was 101. This compares with 98.9 for Negroes in the United States in 1910. For the several classes of whites in the civilian population of the Canal Zone the ratio of males to

² All foreign-born Chinese.
3 Includes 10 Filipinos, 2 Chinese, and 1 Japanese.
4 Ratio not shown when base is less than 100.

100 females ranged from 119.9 for the foreign-born whites to 136.4 for the native whites of foreign or mixed parentage. As explaining the excess of males in the native white population, it may be noted that very few of the native whites were born in the Canal Zone. Most of them are natives of the states, who came to the zone attracted by the opportunities for employment.

In the military and naval population there were from about eight to eleven times as many males as females in each class of the white population. The colored elements were unimportant numerically.

Comparison with 1912.—It will be noted by reference to Table 5 that the excess of males in the population of the Canal Zone is much smaller now than it was in 1912, when the construction work on the canal was at its height. At that time the ratio of males to females was 256 to 100. Even at the present time the males in the white population outnumber the females by more than two to one, which is of course a condition very far from normal.

TABLE 5.—POPULATION, BY COLOR AND SEX: 1920 AND 1912.

COLOR AND CENSUS	Both			PER CI	ENT OF 1	TOTAL.	Num- ber of
YEAR.	sexes.	Males.	Females.	Both sexes.	Males.	Fe- malez.	male fo 190 females
To‡al: 1920 1912	22,858 62,810	14,586 45,163	S, 272 17, 647	100. 0 100. 0	100.0 100.0	100. 0 100. 0	176.3 255.9
White: 1920. 1912. Colored:	12,370 19,413	8,555 14,959	3,815 4,454	54. 1 30. 9	58. 7 33. 1	46.1 25.2	221. 2 335. 9
1920 1912	10,488 43,397	6,031 30,204	1,457 13,193	45. 9 69. 1	41.3 66.9	53. 9 74. 8	135.3 228.9

The percentage of colored in the total population of the Canal Zone, as shown by the above table, declined from 69.1 in 1912 to 45.9 in 1920.

COUNTRY OF BIRTH OF THE FOREIGN BORN.

In Table 6 the foreign-born civilian population in 1920 is distributed by country of birth, figures being given for the white and colored of each sex.

Table 6.—FOREIGN-BORN CIVILIAN POPULATION, BY COLOR, SEX, AND COUNTRY OF BIRTH: 1920.

			ron	EIGN-BORN C	IVILIAN POPU	JLATION: 192	:0.		
COUNTRY OF FIRTH.		Total.			White.			Colored.	
	Both sexes.	Male.	Female.	Both sexes.	Male.	Female.	Both sexes.	Male,	Female.
Total foreign born	8,585	5,137	3,448	1,051	573	478	7,534	4,564	0.00
AMERICA	7,751	4,600	3,151	333	129	204	7,418	4,471	2,970
Sanada and Newfoundland	72	39	33	69	37	32			2,04
Mexico. Bermuda	23 2	15 2	8	îi	3	8	12 2	12 2	
West Indies British West Indies. Barbados Jamaica. Other British West Indies. Cuba French West Indies. Haiti. Other West Indies.	0,095 5,737 2,472 2,309 956 16 329 10	3,645 3,392 19,540 1,265 587 237 8	2,450 2,345 932 1,044 369 11 92 2	42 27 6 16 5 8 2 2	18 14 5 6 3 1	24 13 1 10 2 7 7 2 2 2	6,053 5,710 2,466 2,293 951 8 327 8	3, 627 3, 378 1, 535 1, 259 584 4 237 8	2, 42; 2, 33; 93; 1,03; 36;
Central America. Panama Costa Rica. Other Central America.	1,196 1,125 44 27	638 600 19 19	558 525 25 8	137 103 18 16	39 27 2 10	98 76 16	1,059 1,022 26 11	599 573 17	46 44
South America.	363	261	102	74	32	42	289	229	6
Europe	747	474	273	708	440	0.70			
Great Britain	213	117	96	212		268	39	34	
England. Scotland. Wales.	158 49 6	80 33 4	78 16 2	157 49 6	117 80 33 4	95 77 16 2	1 1		
reland	87 73	56 44	31 29	87 73	56 44	31 29			
Scandinavian countries. Norway. Sweden. Denmark	139 47 52 40	92 27 34 31	47 20 18 9	139 47 52 40	92 27 34 31	47 20 18 9			
France witzerland pain taly Russia. inland.	27 17 55 30 14	15 13 41 23 14	12 4 14 7	26 17 37 23 14	14 13 23 16 14	$^{12}_{4}$ $^{14}_{7}$	1 18 7	1 18	
ustria. Inngary iteece other Burope	19 13 16 12 32	13 5 8 12 21	6 8 8	19 12 16 5 28	13 5 8 5 20	6 7 8	1 7	7	
All other	87	63	24	10	4	8	4	1	
sia frica ustralia tlantic Islands	50 4 2 1	49 3 1 1	1 1 1	2 2 2	1 1 1	1 1 1	77 48 2	59 48 2	
ountry not specified. orn at sea.	29 1	8	2i	3	1	3	1 26	1 8	i

Four-fifths of the foreign-born colored in the civilian population are West Indians, three-fourths being from the British West Indies. It is probable that a large proportion of the natives of Panama reported are children of West Indians. Various countries contributed to the foreign white population, but more than one-third of the total number are from English-speaking countries.

AGE AND MARITAL CONDITION.

Age.—A large proportion of the civilian inhabitants of the Canal Zone are in the most active period of adult life, the percentage from 25 to 44 years of age in 1920 being 44.5, whereas in the United States, according to the census of 1910, only about 29 per cent of the population fall within that age period (see Table 8). The percentage 45 years of age and over in the Canal Zone is but 9.9, as compared with 18.9 in the United States; and the percentage of old people, 65 years of age and over, is but 0.5, as compared with 4.3 in the United States.

TABLE 7.—POPULATION, BY AGE AND SEX: 1920.

				POPUL	ATION:	920.				
AGE PERIOD.		Total.		(livilian.		Military and naval.			
	Both sexes.	Male.	Fe- male.	Both sexes.	Male.	Fe- male.	Both sexes.	Male.	Fe- male.	
All ages.	22,858	14,586	8,272	17,964	10,305	7,659	4,891	1,281	613	
Under 5 years Under 1 year 10 to 9 years 10 to 14 years 15 to 19 years 20 to 24 years 25 to 29 years 35 to 39 years 40 to 44 years 55 to 59 years 60 to 64 years 55 to 69 years 75 to 79 years 85 to 89 years 86 to 84 years 85 to 89 years 86 to 84 years 86 to 84 years 86 to 85 years 86 to 86 years	2, 297 1, 197 1, 542 2, 962 2, 950 2, 244 1, 581 967 546 113 49 25 10 2	1,308 295 1,161 552 1,006 2,209 2,129 1,954 1,563 1,069 687 402 180 61 21 9 4	1,232 255 1,136 645 536 700 1,123 996 681 512 280 144 67 52 28 16 6 2	2, 465 515 2, 214 1, 154 890 1, 207 2, 171 2, 450 1, 940 1, 940 1, 433 491 233 100 45 21 10	1, 213 269 1, 121 522 309 613 1, 174 1, 528 1, 308 960 613 363 363 363 175 57 21 8 8	1, 222 246 1, 093 632 491 594 997 922 632 473 260 131 58 43 24 16 6 9	125 25 83 652 1,761 1,081 500 304 148 52 23 13 4	65 16 40 30 607 1,655 125 1255 100 71 39 14 4	60 9 43 13 45 106 126 74 49 39 9 13	
Age not re- ported	268	203	65	258	196	62	10	7	;	

The percentage of children under 10 years of age in the Canal Zone, 26, is larger than in the United States, where it is 22.2; but the percentage of the population from 10 to 24 years of age is relatively small, being only 18.1, as compared with 29.6 in the United States. It may be said, therefore, that while there is a fairly large number of young children and infants in the civilian population of the Canal Zone, there are comparatively few older children or young people. The explanation may be found in the fact that the large population that immigrated to the Canal Zone from the United States or other countries something more than 10 years ago probably included comparatively few infants and young children, who would now be in the period of

youth. But, on the other hand, the birth rate in the Canal Zone is comparatively high, so that the number of children born since their parents came there is relatively large.¹

In the civilian population of the Canal Zone the much higher proportion under 15 years of age in the case of females as compared with males is due to the fact that there is a great excess of males among adults, whereas among the children, as in a normal population, the sexes tend to approach numerical equality. The per cent 45 years of age and over was 12 for males and 7.1 for females in the civilian population.

Table 8.—Per Cent Distribution by Age of the Civilian Population of the Canal Zone, 1920, in Comparison with Similar Distribution for the Total Population of the United States, 1910.

The control of the co	PER CENT DISTRIBUTION OF POPULATION BY AGE.										
AGE PERIOD.	Civilia Care	n populat al Zone, 1	ion of 920.	Population of United States, 1916.							
	Both sexes	Male.	Female.	Both sexes.	Male.	Female.					
All ages	100.0	100.0	190.0	100.0	100.0	100.0					
Under 5 years Under 1 year	13.7 2.9	12.1 2.6	16.0 3,2	11.6 2.4	11.4 2.4	11.8 2.5					
5 to 9 years	12.3	10.9 5.1	14.3 8.3	10.6 9.9	10.4 9.7	10.8 10.1					
15 to 19 years	5.0	3.9	6.4	9.9	9.6	10.2					
20 to 24 years	$\begin{array}{c c} 6.7 \\ 12.1 \end{array}$	5.9 11.4	7.8 13.0	9.8 8.9	9.7 9.0	10.0					
25 to 29 years		14.8	12.0	7.6	7.7	7.4					
35 to 39 years		12.7	8.3	7.0	7.1	6.8					
40 to 44 years	8.0	9.3	6, 2	5.7	5.9	5.5					
45 to 49 years		5.9	3.4	4.9 4.2	5.0 4.5	4.7					
50 to 54 years		3.5 1.7	1.7	3.0	3.1	2.9					
55 to 59 years		0.6	0.6	2.5	2.5	2.4					
65 years and over		0.3	0,6	4.3	4.2	4.4					
Age not reported		1.9	0.8	0.2	0.2	0.1					

The above statements refer to the civilian population of the Canal Zone. The military and naval population consists mainly of adults who have not reached the period of middle life, only 5.1 per cent of the total being children under 15 years of age, and only 3.8 per cent being 45 years of age and over.

Color or race, nativity, and age.—The Negro civilian population of the Canal Zone includes a much larger proportion of young children than the white, as well as a larger actual number, 3,184, or 31.2 per cent, of the Negroes being under 10 years of age, as compared with 1,495, or 19.4 per cent, of the white population; and while the total number of Negroes exceeds the total

¹ The birth rate of the civilian population in the tiscal year 1919 was 31.14 per 1,000. In 1918 the rate was 31.07; in 1917, 19.61; and in 1916, 20.61. The rates for the last two years are higher than those for the registration states of the United States for the calendar years 1917 and 1918, which are, respectively, 24.6 and 24.4. The infant mortality or number of deaths of infants under 1 year per 1,000 births in the Canal Zone was 84.1 in 1919 (fiscal year), 116 in 1918, 136 in 1917, and 170 in 1916. Thus there appears to have been a steady decline in this rate, which now compares favorably with recent rates available for the United States and most other countries.

number of whites by nearly one-third, more whites than Negroes were reported in each age group above 35. (See Table 9.)

Of the native Negroes more than nine-tenths are under 15. The majority of these are probably children of the West Indian Negroes, who form the greater part of the labor force employed on the canal.

The age distribution of the native whites differs materially from that of the foreign-born whites. The foreign-born whites include a much smaller proportion of children and a somewhat larger proportion of persons in the early and middle years of adult life than the native whites, the percentage under 15 for the two classes being, respectively, 8.3 and 29.6 and the percentage 15 to 44 years, respectively, 62.5 and 58.6. The percentage 45 and over was also higher among the foreign-born whites than among the native whites (29.2 as compared with 11.7).

TABLE 9.—CIVILIAN POPULATION, BY COLOR OR RACE, NATIVITY, AND AGE: 1920.

	enantenante e e enante a en				CIV	TLIAN POPU	LATION: 1920).			* .	
AGE PERIOD.		White.				Negro.						
	Total.	Total.	Male.	Female.	Native.	Foreign- born.	Total.	Male.	Female.	Native.	Foreign- born.	Chinese
		NUMBER.										
All ages	17, 964	7,711	4,377	3,334	6,660	1,051	10,207	5,882	4,325	2,719	7,488	1.4
nder 5 years	2,465 515	757 146	404 77	353 69	741 144	16 2	1,708 369	839 192	869 177	1,449 350	259 19	
to 9 years. to 14 years to 19 years to 19 years to 24 years to 34 years	2,214 1,154 890 1,207 4,621	738 566 398 457 1,946	368 251 171 211 1,070	370 315 227 246 876	708 525 346 389 1, 726	30 41 52 68 220	1,476 588 492 749 2,666	753 271 228 401 1,623	723 317 264 348 1,043	972 185 27 16 41	504 403 465 733 2,625	••••••
to 44 years to 54 years to 64 years to 64 years years and over ge not reported	3,373 1,367 233 82 258	1,758 819 200 57 6	1,138 509 139 24 2	620 220 70 33 4	1,441 598 141 39 6	317 221 68 18	1,593 535 123 25 252	1,108 364 92 9 194	485 171 31 16 58	16 6 3 1 3	1,577 529 120 24 249	3
					I'	ER CENT DI	STRIBUTION.		·	<u></u>	,	<u> </u>
All ages	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100,0	100.0	100.0	100,0	100.
nder 5 years	13.7 2.9	9.8 1.9	9.2 1.8	i0.6 2.1	11.1 2.2	1.5 0.2	16.7 3.6	14.3 3.3	20.1 4.1	53.3 12.9	3.5 0.3	
to 9 years 1 to 14 years 5 to 19 years 1 to 24 years 5 to 34 years	6.4 5.0 6.7	9. 6 7. 3 5. 2 5. 9 25. 2	8.4 5.7 3.0 4.8 24.4	11.1 9.4 6.8 7.4 26.3	10.6 7.9 5.2 5.8 25.9	2.9 3.9 4.9 6.5 20.9	14.5 5.8 4.8 7.3 26.1	12.8 4.6 3.9 6.8 27.6	16.7 7.3 6.1 8.0 24.1	35.7 6.8 1.0 0.6 1.5	6.7 5.4 6.2 9.8 35.1	2. 19.
5 to 44 years. 5 to 54 years. 5 to 64 years 5 years and over ge not reported	0.5	22.8 10.6 2.7 0.7 0.1	26.0 13.7 3.2 0.5 (2)	18.6 6.6 2.1 1.0 0.1	21.6 9.0 2.1 0.6 0.1	30.2 21.0 6.5 1.7	15.6 5.2 1.2 0.2 2.5	18.8 6.2 1.6 0.2 3.3	11.2 4.0 0.7 0.4 1.3	0.6 0.2 0.1 (2) 0.1	21.1 7.1 1.6 0.3 3.3	2

¹ All foreign-born males.

Broad age groups: 1920 and 1912.—At the census of 1912 the only age groups distinguished in the published returns were those comprising children under 6 and 6 to 14 years of age and persons 15 years and over. Of the 45,163 males in the Canal Zone population in 1912 (see Table 10), 2,747, or 6.1 per cent, were under 6 years; 2,360, or 5.2 per cent, were from 6 to 14 years; and 40,056, or 88.7 per cent, were 15 years of age and over. The corresponding percentages for the 17,647 females were 15.9, 14.2, and 69.9.

In Table 10 the proportions under 15 years of age among white and colored males and females, respectively, are compared for 1920 and 1912. For both white and colored there has been a very marked increase in the proportion of children under 15 years of age, this change being one which would be expected to accompany the completion of the canal and the

transition from construction work to the more permanent work of operation and maintenance.

Table 10.—Population Under 15 and 15 Years of Age and Over, Respectively, by Color and Sex: 1920 and 1912.

		1920			PER CENT UNDER 15		
COLOR AND SEX.	Total.	Under 15 years of age.	15 years of age and over.1	Total.	Under 15 years of age.	15 years of age and over.	YEARS OF AGE.
Total Male Female	22,858 14,586 8,272	6,084 3,021 3,063	16,774 11,565 5,209	62,810 45,163 17,647	10,425 5,107 5,318	52,385 40,056 12,329	26. 6 20. 7 37. 0 11. 3 30. 1
White Male Female	12,370 8,555 3,815	2,297 1,147 1,150	10,073 7,408 2,665	19,413 14,959 4,454	2,704 1,338 1,366	16,709 13,621 3,088	18.6 13.9 13.4 8.9 30.1 30.7
Colored Male. Female.	10,488 6,031 4,457	3,787 1,874 1,913	6,701 4,157 2,544	43,397 30,204 13,193	7,721 3,769 3,952	35,676 26,435 9,241	36. 1 17. 8 31. 1 12. 5 42. 9 30. 0

¹ Includes persons whose age was not reported.

² Less than one-tenth of 1 per cent.

Marital condition.—In the civilian population of the Canal Zone in 1920, 40.6 per cent, or about two-fifths, of the adult males, or males 15 years of age and over, were single, as compared with 19.2 per cent, or about one-fifth, of the adult females. In almost any country or community the percentage single is larger for males than for females, because males as a rule remain single longer than females, or, in other words, marry at an older age. But the very marked and unusual difference between the sexes as regards the percentage single in the Canal Zone is doubtless due in large measure to excess of males in the total adult civilian population, in which there are 157.4 males to 100 females.

The percentage of single men in the United States, 38.7, according to the census of 1910, is somewhat smaller than it is in the civilian population of the Canal Zone (40.6); but the percentage of single women, on the other hand, is much larger in the United States, being 29.7, as compared with 19.2 in the Canal Zone.

Table 11.—Marital Condition of the Male and Female Population 15 Years of Age and Over: 1920.

	POPULATION: 1920.										
MARITAL CONDITION.	То	tal.	Civi	lian.	Military and naval.						
	Male.	Female.	Male.	Female.	Male.	Fe- male.					
	NUMBER.										
15 years of age and over 1.	11,565	5,209	7,419	4,712	4,146	497					
Single. Married Widowed. Divorced. Marital condition not reported.	6,582 4,720 155 61 47	1,026 3,927 237 12 7	3,013 4,191 142 38 35	906 3,579 209 11 7	3,569 529 13 23 12	120 348 28 1					
		PER (CENT DIS	TRIBUTIO	N.						
15 years of age and over 1	100.0	100.0	100.0	100.0	100.0	100.0					
Single. Married Widowed. Divorced Marital condition not reported.	56.9 40.8 1.3 0.5 0.4	19.7 75.4 4.5 0.2 0.1	40.6 56.5 1.9 0.5 0.5	19.2 76.0 4.4 0.2 0.1	86.1 12.8 0.3 0.6 0.3	24.1 70.0 5.6 0.2					

¹ Includes persons whose age was not reported.

It may be noted from Table 11 that there are 612, or 17.1 per cent, more married men than married women in the civilian population of the Canal Zone, which means probably that there are about that number of married men in the zone whose wives have not

accompanied them but have remained at home either in the United States or in some other country or locality outside the zone. This is a condition which results naturally from the temporary character of the population and the unfavorable climate.

In the military and naval population of the Canal Zone in 1920, as would be expected, a great majority of the adult males were single, nearly seven-eighths (86.1 per cent) of the 4,146 males 15 years of age and over being so reported. Only about one-eighth (12.8 per cent) were married and less than 1 per cent widowed or divorced. Of the 497 adult females in this group less than one-fourth (24.1 per cent) were single, 70 per cent being married and the remainder, with the exception of 1 reported as divorced, being widowed.

As shown by Table 12, the percentage single is much higher among males than among females in every age group of the civilian population, but the contrast is most marked relatively in the age groups "25 to 29 years" and "30 to 34 years," which comprise more than one-third of the adult males and females, the percentage single being, respectively, 55.3 and 35.2 for males and 12.5 and 6.1 for females.

Table 12.—Marital Condition of the Male and Female Civilian Population 15 Years of Age and over, by Age: 1920.

	CIVI	JAN PO	PULATIO	N 15 YI	Cars of	AGE A	sie ovi	R: 192	30.
SEX AND AGE	Tot	al.	Sin	Single.		ried.			Mari-
PERIOU,	Num- ber, entribu- tion.	cent dis- tribu-	Num- ber.	Per cent.	Num- her.	Per cent.	Wid- nwed.	Di- vore- ed.	con- dition not re- port- ed.
Males	7,419	100,0	3,013	40.6	4, 191	56.5	142	38	35
15 to 19 years 20 to 24 years 25 to 29 years 30 to 34 years 35 to 44 years 45 to 54 years 55 years and over Age not reported	399 613 1,174 1,528 2,268 976 232 33 196	5.4 8.3 15.8 20.6 30.6 13.2 3.1 0.4 2.6	394 500 649 538 621 249 53 3 10	98.0 81.6 55.3 35.2 27.4 25.5 22.4 (1) 5.1	3 112 511 964 1,589 664 169 20 159	0, 8 18, 3 43, 5 63, 1 70, 1 68, 0 72, 8 (1) 81, 1	11 19 43 48 10 10	1 2 7 13 14 1	5 1 2 1
Females	4,712	100.0	906	19.2	3,579	76.0	209	11	7
15 to 19 years 20 to 24 years 25 to 29 years 36 to 34 years 35 to 44 years 45 to 54 years 65 years and over Age not reported	491 594 997 922 1, 105 391 101 49 62	10.4 12.6 21.2 19.6 23.5 8.3 2.1 1.0 1.3	424 178 125 56 82 32 3 4	86.4 30.0 12.5 6.1 7.4 8.2 3.0 (1)	65 409 858 852 977 302 55 9	13.2 68.9 86.1 92.4 88.4 77.2 54.5 (1)	5 9 12 42 56 42 38 5	1 2 2 4 1 1	2 1 3 1

¹ Per cent not shown when base is less than 100.

TABLE 13.—MARITAL CONDITION OF THE MALE AND FEMALE CIVILIAN POPULATION 15 YEARS OF AGE AND OVER, BY COLOR AND AGE: 1920.

	elemente de la companya de la compa	MALES	e 15 year	S OF AGE	AND OV	ER.			FEMALI	es 15 yea	RS OF AG	E AND O	VER.	
AGE PERIOD.			Marrie	l, widowe	d, or div	orced.	Marital condi-			Married, widowed, or divorced.			Marital condi-	
	Total.	Single,	Total.	Mar- ried.	Wid- owed.	Di- vorced.	tion not re- ported.	not re-	Single.	Total.	Mar- ried.	Wid- owed.	Di- vorced	tion not re-
			·				Tor	PAI.			-			
Total	7,419	3,013	4,371	4, 191	142	38	35	4,712	906	3,799	3,579	209	11	7
15 to 19 years. 20 to 24 years. 25 to 44 years. 45 to 64 years. 65 years and over. Age not reported.	399 613 4,970 1,208 33 196	391 500 1,808 301 3 10	3 113 3,159 906 30 160	3 112 3,061 833 20 159	73 58 10 1	1 22 15	5 3 1 26	491 594 3,021 492 49 62	424 178 263 35 2 4	415 415 2,758 457 47 57	65 409 2,687 357 9 52	5 63 98 38 5	1 8 2	2 1 3 1
							WHI	TE.						
Total	3,354	1, 162	2,187	2,072	80	35	5	2,296	478	1,815	1,689	116	10	3
15 to 19 years. 20 to 24 years. 25 to 44 years. 45 to 61 years. 65 years and over. Age not reported.	171 211 2,208 738 24 2	167 164 697 132 1	2 47 1,508 606 23 1	2 46 1,453 555 15 1	36 36 8	1 19 15	3	227 246 1,496 290 33 4	199 89 174 16	28 156 1,320 274 33 4	28 154 1,276 222 5 4	1 36 51 28	1 8 1	1 2
					_		COLO	RED.						
Total	4,065	1,851	2,184	2,119	62	3	30	2,416	428	1,984	1,890	93	1	4
15 to 19 years. 20 to 24 years. 25 to 44 years. 45 to 64 years. 65 years and over. Age not reported.	2,762 470 9	336 1,111 169 2 9	1,651 300 7 159	66 1,611 278 5 158	37 22 2 1	3		348 1,528 202 16 58	89 89 19 2	259 1,438 183 14 53	255 1,411 135 4 48	4 27 47 10 5	1	i 1

In the male civilian population of the Canal Zone the percentage single is greater for the colored than for the white; in the female population the difference is the other way, the percentage single being in general higher for the white women than for the colored. This may be explained, at least in part, by the fact that the excess of men is considerably larger for the colored race in the zone than for the white, the number of adult males per 100 adult females being 168 for the colored and 146 for the white.

Attention has already been called to the fact that the population of the Canal Zone as compared with that of the United States has a larger percentage of single men and a smaller percentage of single women. The contrast is emphasized when the comparison is made by age groups as presented in Table 14, the difference being very marked in the population above 25 years.

In the census of 1912 returns as to marital condition in the Canal Zone were tabulated only for persons 15 years of age and over born in the United States or its territorial possessions, and all these persons are shown either as "single" or "married." Among the white males 15 years of age and over born in the United States or its outlying territory, 58.9 per cent were reported as single. When compared with this the percentage single for white males (nearly all native) in 1920, as given in Table 14, 34.6, shows a very material reduction, resulting naturally from the fact that the

ratio of males to 100 females has fallen off from 256 in 1912 to 176 in 1920, all of which is indicative of progress towards more normal conditions since the construction work on the canal was at its height. In the case of the female population, the percentage single, as might be expected in view of the continuous excess of males, shows little change, being 19.9 for native white females in 1912 and 20.8 for white females in 1920.

Table 14.—Per Cent Single in the Adult Population of the Canal Zone (Civilian), 1920, and of the United States, 1910.

	PER CENT SINGLE IN POPULATION 15 YEARS OF AGE AND OVER.							
SEX AND AGE PERIOD.	Civilia Can	on of 920.	United States:					
	Total.	White.	Colored.	1910.				
Males 15 years of age and over 1	40.6	34.6	45.5	38.7				
15 to 19 years 20 to 24 years 25 to 44 years 45 to 64 years 65 years and over	98. 0 81. 6 36. 4 24. 9 (2)	97. 7 77. 7 31. 6 17. 9 (2)	98. 2 83. 6 40. 2 36. 0 (2)	98.3 74.9 27.0 10.1 6.2				
Females 15 years of age and over 1	19.2	20.8	17.7	29.7				
15 to 19 years. 20 to 24 years. 25 to 44 years. 45 to 64 years 65 years and over.	30.0	87. 7 36. 2 11. 6 5. 5 (2)	85. 2 25. 6 5. 8 9. 4 (²)	87.9 48.3 16.8 8.0 6.3				

¹ Includes those whose age was not reported.
2 Per cent not shown when base is less than 100.

SCHOOL ATTENDANCE, ILLITERACY, AND INABILITY TO SPEAK ENGLISH.

School attendance.—In 1920, 3,026 persons, or considerably more than two-thirds (71.1 per cent) of the civilian population 5 to 19 years of age, reported that they had attended school at some time during the current school year.

TABLE 15.—Number Attending School in the Civilian Population, by Color, Age, and Sex: 1920.

Total num- her of		PERSONS 5 TO 9 YEARS OF AGE.			PERSONS 10 TO 14 YEARS OF AGE.			PERSONS 15 TO 19 YEARS OF AGE.			
color and sex.	per- sons at- tend-	Total.	Attending school.		Total.	Attending school.		Total.	Attending school.		
	ing school.	10,41.	Num- ber.	Per cent.	4 1	Num- ber.		10141.	Num- ber.	Per cent.	
Total	3,026	2,214	1,680	75.9	1, 154	1,063	92.1	890	. 283	31. 8	
Male Female	1,462 1,564	1, 121 1, 093	850 830	75.8 75.9	522 632	453 580	92.5 91.8	399 4 91	129 154	32. 3 31. 4	
White Colored	1,336 1,690	738 1,476	564 1,116	76.4 75.6	566 588	549 514	97.0 87.4	398 492	223 60	56, 6 12, 2	

There is little difference apparently either between the sexes or between the white and colored children as regards the percentage attending school, except in the case of the older children 15 to 19 years of age, in which age group the percentage is much higher for the white children (56) than for the colored (12.2). The higher percentage represents largely pupils attending a high school or industrial courses conducted for white children.

The percentages of children attending school in the Canal Zone, as shown in Table 15, do not differ very much from the corresponding percentages for most of the Northern states, as reported in the census of 1910.

For the fiscal year ending June 30, 1919, the net enrollment in the schools, as stated in the annual report of the Governor of The Panama Canal, was 3,006. This is about the same as the number who at the census of 1920 were reported as having attended school for a longer or shorter period at some time between September 1, 1919, and January 1, 1920; but it should be noted that the enrollment figures include some children of canal employees who live outside the Canal Zone and therefore are not covered by the census of 1920.

The following statement giving the average daily attendance and the net enrollment, so far as figures are available, for the white and colored schools separately during the school years 1905 to 1919, is compiled from the reports of the Governor of The Panama

Canal and from a review of the average daily attendance in the Canal Zone public schools contained in The Panama Canal Record of December 17, 1919 (Vol. XIII, p. 240). It shows a general increase in average daily attendance up to 1913, the year when the maximum force was employed on the canal, and fluctuations after that year. Since 1916 there has been a steady increase both in the net enrollment and in the average daily attendance.

Table 16.—Average Daily Attendance in Schools of the Canal Zone, 1905 to 1919, and Net Enrollment, 1914 to 1919

	i described	SCHOOL ATT	ENDANCE I	NTHE CAN	AL ZONE.	
SCHOOL YEAR ENDESC	Ne	t enrollmer	ıt.	Average	daily atter	dance.
	Total.	White schools.	Colored schools.	Total	White schools,	Colored schools
919 918 917 916 915 914 913 912 911 910 669 669	3,006 2,774 2,373 2,149 2,576 2,762	1,778 1,764 1,518 1,558 1,146 1,270	1,228 1,010 855 753 1,430 1,402	2, 151 1, 963 1, 709 1, 501 1, 762 1, 683 1, 528 1, 714 1, 395 1, 257 1, 257 1, 159 1, 138 1, 138	1,424 1,323 1,212 1,065 1,066 968 1,029 980 839 652 539 535	754 644 496 1436 756 734 705 556 577 745 761 971

¹ Reduced attendance in colored schools for 1916 due to rule excluding children of nonresident alien employees from free school privileges.

The fact that notwithstanding a decrease between 1912 and 1920 of 41.6 per cent in the total number of children under 15 years of age (see Table 10) the average daily school attendance was larger in 1919 than in 1912 indicates considerable improvement in the matter of school attendance or in school facilities.

As the total number of persons between the ages of 5 and 19, inclusive, in the military and naval population of the Canal Zone in 1920 was only 778 and about five-sixths (652) of these were 15 to 19 years of age, most of them being actively engaged in the military or naval service, the figures as to school attendance for this group are not important enough to call for special comment. Of the 126 persons 5 to 14 years of age, 97, or 77 per cent, attended school, and of the 652 persons 15 to 19 years of age, 25, or 3.8 per cent.

Illiteracy.—Table 17 shows the number and per cent illiterate among males and females of each class of the civilian population of the Canal Zone in 1920. All persons unable to write have been classified as illiterate, although some of them may be able to read.

Table 17.—Illiterates Among Persons 10 Years of Age and Over in the Civilian Population, by Color or Race, Nativity, and Sex: 1920.

Agent groups and the state of t	CIVILIAN POPULATION 10 YEARS OF AGE AND OVER: 1920.1												
COLOR OR RACE AND NATIVITY,	Both sexes.			Male.			Female.						
		Illite	rate.	Total.	Illiterate.			Illiterate.					
	Total.	Num- ber.	l'er cent.		Num- ber.		Total,	Num- ber.	Per cent.				
All classes	13,285	751	5.7	7, 941	514	6.5	5,344	237	4.4				
White Native Foreign born	6,216 5,211 1,005	19 	0.3	3,605 3,054 551	13 13	0.4	2,611 2,157 454	6	0.2				
Negro Chinese	7,023 46	714 18	10.2 (2)	4,200 46	483 18	11.3 (2)	2,733	231	8.5				

Includes persons whose age was not reported.
 Per cent not shown when base is less than 166.

Table 18.—Illiterates Among Persons 10 Years of Age and Over in the Civilian Population, by Color, Age, and Sex: 1920.

•	CIVI	LIAN P)PULAT	10N 10 Y	EARS (F AGE	AND O	/ER: 19	20.		
	Во	th sexe	°S.		Male.		I	Female.			
AGE PERIOD.		Illite	rate.	 	Hitte	rate.		Illite	rate.		
	Total.	Num- ber,		Total.	Num- ber.	Per cent.	Total.	Num- ber.	Per cent.		
The state of the s				T	OTAL.		***************************************				
10 years of age and over	13, 285	751	5.7	7,941	514	6.5	5,344	237	4.4		
10 to 14 years	1,154 890 1,207 4,621 3,373	5 24 83 230 200 121 35 12 41	0.4 2.7 6.9 5.0 5.9 8.9 10.5 (1) 15.9	522 309 613 2,702 2,268 976 232 33 196	3 17 65 158 136 85 24 4 22	0.6 4.3 10.6 5.8 6.0 8.7 10.3 (1) 11.2	632 491 594 1,919 1,105 391 101 49 62	2 7 18 72 64 36 11 8	0.3 1.4 3.0 3.8 5.8 9.2 10.9 (1)		
				V	VIIITE.						
10 years of age and over	6,216	19	0.3	3,605	13	0.4	2,611	6	0.2		
10 to 14 years	566 398 457 1,946 1,758 \$19 209 57 6	3 1 7 3 3 1 1	0.5 0.2 0.4 0.2 0.4 0.5 (1)	251 171 211 1,070 1,138 509 139 24 2	3 1 4 3 2	0.5 0.4 0.3 0.3	315 227 246 876 620 220 70 33 4	3	0. (0. ((1) (1)		
				c	DLOREI),		-			
10 years of age and over	7,069	732	10.4	4,336	501	11.6	2,733	231	8.8		
10 to 14 years	1,615	2 24 82 223 197 118 34 11	0.3 4.9 10.9 8.3 12.2 21.5 27.4 (1) 16.3	271 228 462 1,632 1,130 377 93 9 104	17 64 154 133 83 24 4 22	7.5 15.9 9.4 11.8 22.0 (1) (1) 11.3	317 264 348 1,043 485 171 31 16 58	2 7 18 69 64 35 10 7	0. (2. 5. 6. (6. (13. (1) (1) (1) (1)		

¹ Per cent not shown when base is less than 100.

In 1920 only 751 persons, or 5.7 per cent of the civilian population of the Canal Zone 10 years of age and over, were reported as unable to write. No illiterate persons were reported among the native whites, and the percentage illiterate among the foreign-born whites was only 1.9, which is lower than that for the native whites in the United States in 1910 (3). The low percentage for the whites is not surprising, inasmuch as the work on the canal which requires no education is in large measure performed by the "silver force," made up principally of West Indian Negroes, and the white employees are for the most part engaged in work for which the ability to read and write is important.

It will be noted that within each population class which included illiterate persons the percentage of illiteracy is slightly higher for males than for females. This is contrary to the situation in the United States, where for all classes combined and for each individual class except the native whites the percentage for females in 1910 was the higher.

In each age group under 45 the percentage illiterate, as shown in Table 18, is higher among all males than among all females, but in the case of the colored there are slight exceptions.

It is a fact of some significance as indicating the influence of the recently established school system in the Canal Zone that the colored children 10 to 14 years of age are as free from illiteracy as the white children in the same age group. At older ages, and especially above the age of 45, the illiteracy of the colored population is very high, while for the white population cases of illiteracy are but few.

Table 19.—Per Cent Illiterate in the Civilian Population of the Canal Zone in 1920 and in the Population of the United States in 1910, by Age.

	PER CENT ILLITERATE.						
AGE PERIOD.	Civilian	United States, 1910.					
	population of the Canal Zone, 1920.	All classes.	Native white.				
Population 10 years of age and over 1	0. 4 2. 7 6. 9 5. 0 5. 9	7.7 4.1 4.9 6.9 7.3 8.1 9.0 12.0 14.5	3. 1. 2. 2. 3. 4. 6.				

¹ Includes persons whose age was not reported.
² Per cent not shown when base is less than 100.

For nearly every age group, as shown by Table 19, the percentage illiterate in the Canal Zone is below that shown for all classes combined in continental United States, although slightly higher than that for the native white alone.

TABLE 20.—ILLITERATES IN THE MILITARY AND NAVAL POPULA-TION 10 YEARS OF AGE AND OVER: 1920.

	MILITARY AND NAVAL POPULATION 10 YEARS OF AGE AND OVER: 1920.					
COLOR, SEX, AND AGE PERIOD.	mot.)	Illiterate.				
	Total.	Number.	Per cent.			
10 years of age and over Males Females	4,686 4,176 510	39 24 15	0.8 0.6 2.9			
10 to 14 years. 15 to 19 years. 20 to 24 years.	652 1.761	4 13 12	0, 6 0, 7 0, 8			
35 to 44 years 45 to 54 years 55 to 64 years 65 years and over	452 146 36 5	7 2 1	1.5 1.4 (1)			
Age not reported	4,464 222	24 15	0. 5 6, 8			

I Per cent not shown when base is less than 100.

In the military and naval population in 1920, as shown by Table 20, the percentage illiterate was higher among females 10 years of age and over than among males of that group and considerably higher for the colored than for the white.

Table 21.—Illiterates in the Total Population 15 Years of Age and Over, by Color: 1920 and 1912.

POPULATION 15 YEARS OF AGE AND OVER.1						
	Illiterate.					
Total.	Number.	Per cent.				
10,774 52,385	785 12,668	4.7 24.2				
10,073 16,709 6,701	40 2,430 745	0. 4 14. 5 11. 1 28. 7				
	Total. 10,774 52,385	Total. Illite Total. Number. 10,774				

¹ Includes persons whose age was not reported.

Separate figures as to illiteracy among persons 10 years of age and over in 1912 are not available, but Table 21 gives the number and per cent illiterate in

the total population 15 years of age and over, by color, as reported at the censuses of 1920 and 1912; and it will be noted that since 1912, when the construction work on the canal was near its height, there has been a marked reduction in the percentage of illiteracy in the adult population of each class.

Inability to speak English.—Of the total civilian population of the Canal Zone, only 490 persons, or 3.7 per cent of those 10 years of age and over, were reported as unable to speak English, 400 of this number being foreign-born Negroes.

Table 22.—Persons Unable to Speak English in the Civilian Population: 1920.

	OF AGE AND GVER: 1920.1						
CLASS OF POPULATION,	Total.	Umable to speak English.					
		Number.	Per cent.				
Ali classes. Males Femalos	13,285 7,941 5,344	490 383 107	3.7 4.8 2.0				
White	6,216 5,211 1,605	56 56	0, 9 5, 6				
Negro Native Foreign born	7,023 298 6,725	406 6 400	5.8 2.0 5.9				
Chinese	46	28	(2)				

¹ Includes persons whose age was not reported.
² Per cent not shown when base is less than 100.

The low percentage unable to speak English is due to the fact that the majority of the foreign-born Negroes, as well as a large proportion of the foreign-born whites, came from English-speaking countries. Moreover, the white males employed in the Canal Zone are for the most part engaged in work which requires some education and probably some knowledge of English.

Less than 1 per cent of the military and naval population 10 years of age and over were reported as unable to speak English, such persons comprising 9 of the 4,686 persons of the specified age in this group.

OCCUPATIONS.

The occupations of 7,730 residents of the Canal Zone were reported in the present census. The total number of males returned as gainfully employed (7,008) constituted 94.5 per cent of the civilian male

population 15 years of age and over in 1920. Employed females numbered only 722, and constituted but 15.3 per cent of the female population 15 years of age and over.

TABLE 23.—Occupations of the Civilian Population, Classified by Sex and Color: 1920.

	PERSONS GAINFULLY EMPLOYED: 1920.									
INDUSTRY OR SERVICE.	Total num- ber.	Per cent distri- bution.	Male.	Fe- male.	White.	Col- ored.				
All occupations	7,730	100.0	7,008	722	3,566	4,164				
Agriculture, forestry, and animal husbandry	237	3. 1	237		34	1 203				
industries	2,564	33. 2	2,532	32	1,495	1,069				
Transportation Water transportation	2,093 1,312	27. 1 17. 0	2,054 1,312	39	612 329	1,481 983 427				
Railroad transportation Other transportation	591 190	7.6 2.5	591 151	39	164 119	71				
Trade Public service (not elsewhere	166	2.1	138	28	81	2 85				
classified)	709 403	9. 2 5. 2	708 263	1 140	286 371	423 32				
Domestic and personal service Clerical occupations		8.7 11.4	336 740	337 145	63 624	8 261				

¹ Includes 38 Chinese. ² Includes 5 Chinese. ³ Includes 1 Chinese.

As the total number of employees of The Panama Canal and Panama Railroad was 22,328 ¹ on January 7, 1920, it will be seen that the gainfully occupied population of the Canal Zone includes only about one-third (34.6 per cent) of the total number of employees of The Panama Canal and the Panama Railroad. It is evident, therefore, that the occupation statistics here presented do not convey a true impression of the magnitude of the industrial operations being carried on within the Canal Zone. This is due to the fact that many of the employees of The Panama Canal and the Panama Railroad reside outside the Canal Zone.

The occupation returns were classified, as nearly as possible, in accordance with the standardized census method; but as some of the enumerators returned the industry merely as "Panama Canal" or "Panama Railroad," it was not always possible to distinguish between persons engaged in the manufacturing and mechanical industries and those employed in the actual operation and maintenance of the canal.

The largest occupation group, including one-third of the gainfully employed population of the Canal Zone, is composed of those engaged in the various manufacturing and mechanical industries directly connected with the operation and maintenance of The Panama Canal and the Panama Railroad.

More than one-fourth (27.1 per cent) of the occupations reported were classified under transportation. As would naturally be expected, the proportion of the gainfully occupied population engaged in pursuits peculiar to transportation is much larger in the Canal Zone than it was in the United States in 1910 (6.9 per cent). The occupations of 591 persons were classified under railroad transportation, who represent only 8 per cent of the 7,358 1 employees of the Panama

Railroad reported at work on January 7, 1920. The explanation of the difference is found in the fact that the great majority of the Panama Railroad employees reside in the terminal cities of Colon and Panama, both of which are situated outside of the Canal Zone.

In Table 24 a comparison is made of the per cent distribution, by occupation groups, of the population of the United States and of the Canal Zone engaged in gainful pursuits.

Table **24.**—Per Cent Distribution, by Occupation Groups, of the Gainfully Employed Civilian Population of the Canal Zone in 1920, and of the United States in 1910.

OCCUPATION GROUP.	PER CENT DISTRIBUTION.		
	Canal Zone: 1920.	United States: 1910,	
All groups.	100.0	100,	
Agriculture, forestry, and animal husbandry Extraction of minerals	3.1	33. 2.	
Vanufacturing and mechanical industries Fransportation	33.2 27.1	27. 6.	
Public service (not elsewhere classified)	2.1	9. 1.	
Professional service Domestic and personal service Derical occupations	8.7	4. 9.	

A majority (56.5 per cent) of the 4,120 gainfully occupied Negroes residing within the Canal Zone were returned as laborers (1,969) or servants (360). On the other hand, only 87 white persons were so returned, and they constituted but 3.6 per cent of the total number of laborers and servants residing in the Canal Zone.

Table 25 shows, by race, the number of laborers and servants in each of the major occupation groups, and the percentage which each race contributes to the total number reported, in comparison with the total number of persons in all occupations.

TABLE 25.—LABORERS AND SERVANTS RESIDING IN THE CANAL ZONE, BY COLOR: 1920.

OCCUPATION GROUP.	Total.	WHITE.		COLORED.	
		Num- ber.	Per cent of total.	Num- ber.	Per cent of total.
All occupations.	7,730	3,566	46. 1	1 4, 164	53.9
Laborers and servants	2,432	87	3.6	2,345	96.4
Agriculture Manufacturing and mechanical industries	153	16	10. 5	² 137	89. 5 96. 8
Transportation. Water transportation. Railroad transportation. All other transportation.	1,236	37 32 5	3.0 3.8 1.3	1,199 805 391 3	97. (96. 2 98. 7 100. (
Public service (not elsewhere classified) Domestic and personal service 3	290 409	1 22	0.3 5.4	289 387	99.7 94.0

¹ Includes 44 Chinese. ² Includes 16 Chinese. ³ Includes porters not in stores.

¹ Data furnished by the Washington office of The Panama Canal.