

REPORT
OF THE
HEALTH DEPARTMENT
OF
THE PANAMA CANAL
FOR
OCTOBER, NOVEMBER, DECEMBER
1918

Gift of the Panama Canal Museum

ARTHUR T. McCORMACK

Lieutenant-Colonel, Medical Reserve Corps, United States Army
Chief Health Officer

THE PANAMA CANAL PRESS.
MOUNT HOPE, C. Z.
1919

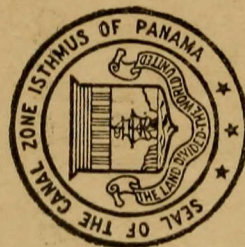
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PANAMA CANAL ZONE

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LETTER OF TRANSMITTAL

THE PANAMA CANAL,
HEALTH DEPARTMENT,
Balboa Heights, C. Z., April 29, 1919

COL. CHESTER HARDING,
*Governor, The Panama Canal,
Balboa Heights, C. Z.*

SIR: I have the honor to submit the following report of the operations of the health department for the quarter, October to December, 1918.

An annual report for the calendar year is also being submitted, which will cover all items of special interest; no general remarks are submitted for this report.

Respectfully,

H. C. FISHER,
Chief Health Officer.

VITAL STATISTICS.

EMPLOYEES.

The following statistics are based upon the average number of names appearing on the pay rolls of The Panama Canal and the Panama Railroad Company for the three months ending December 31, 1918, which was 25,122, as compared with 23,417 for the preceding three months, and 29,440 for the corresponding three months of last year.

Admissions to hospitals and quarters numbered 2,588, giving an admission rate of 412.08,¹ as compared with 452.12 for the preceding three months, and 391.03 for the corresponding three months of last year.

The constantly noneffective rate was 11.55, as compared with a rate of 11.53, for the preceding three months, and 10.32 for the corresponding three months of last year.

¹ All morbidity and mortality rates are computed as equivalent annual per 1,000.

Deaths from all causes numbered 39; of these, 35 were from disease, giving a rate of 6.20 from disease alone, as compared with a rate of 7.32 for the preceding three months and 5.30 for the corresponding three months of last year.

Diseases causing the highest admission rates to hospitals, in the order of their numerical importance, were (1) influenza, (2) malaria, (3) venereal diseases, (4) tonsilitis and (5) diseases of the eyes and their annexa. These five diseases caused 41 per cent of all admissions to hospitals, influenza alone causing 15 per cent and malaria 12 per cent of total admissions.

The admission rate for malaria, hospitals and quarters, for the quarter year ending December 31, was 18.31, as compared with a rate of 15.36 for the preceding three months, and 20.52 for the corresponding three months of last year. The constantly noneffective rate from malaria for the quarter year ending December 31, was 1.08, as compared with a rate of 1.92 for the preceding three months and 0.70 for the corresponding three months of last year.

By race.—For disease only, the admission rate to hospitals and the death rate for white employees were 226.20 and 1.80, respectively, as compared with 261.80 and zero for the preceding three months and 267.28 and 4.19 for the corresponding three months of last year. For black employees, for disease only, the admission rate to hospitals and the death rate were 152.84 and 4.84, respectively, as compared with 107.04 and 8.96 for the preceding three months and 117.89 and 5.52 for the corresponding three months of last year. For American employees the admission rate to hospitals from disease only was 202.96, as compared with 265.44 for the preceding three months and 228.57 for the corresponding three months of last year.

The constantly noneffective rates were 16.10 for white and 10.58 for blacks.

The admission rate to hospitals and quarters for malaria was 9.92 for white and 20.08 for colored employees, as compared with 16.96 for white and 15.04 for colored employees for the preceding three months and 17.49 for white and 21.10 for colored employees for the corresponding three months of last year.

CANAL ZONE.

The civilian population of the Canal Zone, based on the police census, taken as of June 20-30, 1918, is 21,707. From this population, 49 deaths occurred during the three months' period ending December 31, 44 of which were from disease, giving a rate of 8.12 from disease alone, as compared with a rate of 10.48 for the preceding three months and 9.32 for the corresponding three months of last year.

Of the deaths from disease, 34 per cent occurred among children under 5 years of age, as compared with 39 per cent for the preceding three months.

Two hundred and three births were reported for the three months' period ending December 31, 1918, giving a birth rate of 37.40. Of these births 77 were white and 126 colored.

Ten deaths occurred among children under 1 year of age, 2 white and 8 colored, giving an infant mortality rate, based on the number of births reported, of 26 for white and 64 for colored children, with a general average of 49.26 for 1,000 births.

Of the total births reported, 8 per cent were stillbirths.

PANAMA CITY.

The population of the city, as shown by the health department census of June, 1917, is 61,369; in this population are included approximately 7,000 employees of The Panama Canal. From this population 336 deaths occurred during the three months' period ending December 31, 1918, 327 of which were from disease, giving a rate of 21.32 from disease alone, as compared with a rate of 23.12 for the preceding three months and 29.07 for the corresponding period of three months of last year.

Of the total deaths from disease, 44 per cent occurred among children under 5 years of age, as compared with 39 per cent for the preceding three months.

The principal causes of death, as compared with the preceding three months, were as follows:

	July- September, 1918.	October- December, 1918.
Tuberculosis (various organs).....	71	67
Pneumonia (broncho and lobar).....	57	38
Diarrhea and enteritis.....	31	35
Nephritis (acute and chronic).....	17	23
Organic heart disease.....	18	17

Six hundred and five births were reported during the three months' period ending December 31, giving a rate of 39.44. One hundred and twenty-one deaths occurred among children under 1 year of age, giving an infant mortality rate, based on the number of births reported, of 200.

Of the total births reported, 7 per cent were stillbirths.

COLON.

The population of Colon, as shown by the health department census of June, 1917, is 26,076; in this population are included approximately 6,000 employees of The Panama Canal. From this population, 152 deaths occurred during the three months' period ending December 31, 1918, 146 of which were from disease, giving a rate of 22.40 from disease alone, as compared with a rate of 23.76 for the preceding three months, and 26.69 for the corresponding three months of last year.

Of the total deaths from disease, 32 per cent occurred among children under 5 years of age, as compared with 42 per cent for the preceding three months.

The principal causes of death as compared with the preceding three months were as follows:

	July- September, 1918.	October- December, 1918.
Tuberculosis (various organs)	28	29
Pneumonia (broncho and lobar)	30	18
Nephritis (acute and chronic)	10	12
Diarrhea and enteritis	12	11
Bronchitis (acute and chronic)	15	11

Two hundred and sixteen births were reported during the three months' period ending December 31, giving a rate of 33.12. Thirty-six deaths occurred among children under 1 year of age, giving an infant mortality rate based on the number of births reported, of 166.66.

Of the total births reported, 7 per cent were stillbirths.

TABLE 1.—DISCHARGES, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES.

ABSOLUTE NUMBERS.

	Number of employees.	Discharges and deaths from hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly noneffective.
Fourth quarter, 1918:									
White.....	4,421	277	251	26	5	5	.....	6,407	71.19
Colored.....	20,701	759	664	95	34	30	4	19,703	218.92
Total.....	25,122	1,036	915	121	39	35	4	26,110	290.11
Third quarter, 1918:									
White.....	4,247	298	278	20	.....	.....	.....	6,718	74.64
Colored.....	19,170	681	556	125	45	43	2	17,575	195.28
Total.....	23,417	979	834	145	45	43	2	24,293	269.92
Fourth quarter, 1917:									
White.....	4,801	365	319	46	7	5	2	7,134	77.56
Colored.....	25,018	962	727	235	44	34	10	20,805	226.21
Total.....	29,819	1,327	1,046	281	51	39	12	27,939	303.77

PROPORTIONATE NUMBERS.*

Fourth quarter, 1918:									
White.....	4,421	250.60	227.08	23.52	4.52	4.52	.....	.....	16.10
Colored.....	20,701	146.64	128.48	18.56	6.56	5.80	.76	.....	10.58
Total.....	25,122	164.96	145.68	19.28	6.20	5.56	.64	.....	11.55
Third quarter, 1918:									
White.....	4,247	280.67	261.83	18.84	.....	.....	.....	.....	17.57
Colored.....	19,170	142.10	116.01	26.08	9.39	8.97	.42	.....	10.19
Total.....	23,417	167.23	142.46	24.77	7.69	7.34	.34	.....	11.53
Fourth quarter, 1917:									
White.....	4,801	304.08	256.76	38.32	5.84	4.16	1.68	.....	16.15
Colored.....	25,018	153.80	116.24	37.56	7.04	5.44	1.60	.....	9.04
Total.....	29,819	178.00	140.44	37.68	6.84	5.24	1.60	.....	10.19

* Annual average per 1,000 employees.

TABLE II.—CAUSES OF DEATHS OF EMPLOYEES BY COLOR, AGE, AND LENGTH OF RESIDENCE ON ISTHMUS.

Cause of death.	Color.		Age (in years).				
	W.	B.	15-20	21-25	26-30	31-35	36-40
Apoplexy.....		1					1
Aneurysm.....		2					
Circulatory system, other diseases of.....		2				1	
Cancer.....		1					
Heart, organic diseases of.....	1	3			1		1
Liver, cirrhosis of.....		1					
Malaria.....		1				1	
Meningitis, simple.....	1	2			2		
Meningitis, cerebrospinal.....		1					1
Meningitis, pneumococcus.....		1	1				
Nephritis, acute.....		1		1			
Nephritis, chronic.....		2			1		
Peritonitis.....		1					1
Paralysis, general.....	1						
Pulmonary congestion.....	1						
Pneumonia, lobar.....		4		2	1		
Pneumonia, broncho.....	1						1
Stomach, ulcer of.....		1					
Syphilis.....		1					1
Tuberculosis, pulmonary.....		5		1	4		
<i>External causes.</i>							
Drowning, accidental.....		1	1				
Traumatism, by crushings.....		3		1		1	
Total.....	5	34	2	5	9	3	6

Cause of death.	Color.		Age (in years).					
	W.	B.	41-45	46-50	51-55	56-65	66-75	Un- known.
Apoplexy.....		1						
Aneurysm.....		2		1				1
Circulatory system, other diseases of.....		2	1					
Cancer.....		1				1		
Heart, organic diseases of.....	1	3		1	1			
Liver, cirrhosis of.....		1		1				
Malaria.....		1						
Meningitis, simple.....	1	2	1					
Meningitis, cerebrospinal.....		1						
Meningitis, pneumococcus.....		1						
Nephritis, acute.....		1						
Nephritis, chronic.....		2		1				
Peritonitis.....		1						
Paralysis, general.....	1		1					
Pulmonary congestion.....	1				1			
Pneumonia, lobar.....		4						1
Pneumonia, broncho.....	1							
Stomach, ulcer of.....		1	1					
Syphilis.....		1						
Tuberculosis.....		5						
<i>External causes.</i>								
Drowning, accidental.....		1						
Traumatism, by crushing.....		3	1					
Total.....	5	34	5	4	2	1		2

TABLE II.—CAUSES OF DEATHS OF EMPLOYEES BY COLOR, AGE, AND LENGTH OF RESIDENCE ON ISTHMUS—Continued.

Cause of death.	Color.		Length of residence on Isthmus (in years).								
	W.	B.	Under 1.	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-10
Apoplexy		1									
Aneurysm		2									
Circulatory system, other diseases of		2									
Cancer		1									
Heart, organic diseases of ..	1	3									1
Liver, cirrhosis of		1				1					
Malaria		1									
Meningitis, simple	1	2									
Meningitis, cerebrospinal ..		1									
Meningitis, pneumococcus ..		1									
Nephritis, acute		1							1		
Nephritis, chronic		2						1			1
Peritonitis		1									
Paralysis, general	1										
Pulmonary congestion	1										
Pneumonia, lobar		4					1				1
Pneumonia, broncho	1		1								
Stomach, ulcer of,		1									
Syphilis		1									
Tuberculosis, pulmonary ..		5						1	1		2
<i>External causes.</i>											
Drowning, accidental		1									
Traumatism by crushing		3					1		1	1	
Total	5	34	1			1	2	2	3	1	5

Cause of death.	Color.		Length of residence on Isthmus (in years).								Un-known	To-tal.
	W.	B.	10-12	12-15	16-20	20-30	30-40	Life				
Apoplexy		1		1								1
Aneurysm		2	1	1								2
Circulatory system, other diseases of		2								2		2
Cancer		1				1						1
Heart, organic diseases of	1	3		1						2		4
Liver, cirrhosis of		1										1
Malaria		1	1									1
Meningitis, simple	1	2	1				1			1		3
Meningitis, cerebrospinal ..		1	1									1
Meningitis, pneumococcus		1						1				1
Nephritis, acute		1										1
Nephritis, chronic		2										2
Peritonitis		1								1		1
Paralysis, general	1			1								1
Pulmonary congestion	1									1		1
Pneumonia, lobar		4	1					1				4
Pneumonia, broncho	1											1
Stomach, ulcer of,		1		1								1
Syphilis		1								1		1
Tuberculosis, pulmonary ..		5	1									5
<i>External causes.</i>												
Drowning, accidental		1								1		1
Traumatism by crushing		3										3
Total	5	34	6	5		1	1	2		9		3

TABLE III.—DEATHS OF RESIDENTS OF THE CITIES OF PANAMA, COLON, AND THE CANAL ZONE.

Place.	Popula- tion.	Deaths.			Annual rate per 1,000 population.		
		Total.	Disease.	External causes.	Total.	Disease.	External causes.
Fourth quarter, 1918:							
Panama.....	61,369	336	327	9	21.88	21.36	0.60
Colon.....	26,078	152	146	6	23.32	22.36	.92
Canal Zone.....	21,707	49	44	5	9.04	8.12	.92
Total.....	109,154	537	517	20	19.68	18.96	.72
Third quarter, 1918:							
Panama.....	61,369	361	355	6	23.52	23.12	0.40
Colon.....	26,078	160	155	5	24.52	23.76	.76
Canal Zone.....	21,707	63	57	6	11.60	10.48	1.08
Total.....	109,154	584	567	17	21.40	20.76	.6
Fourth quarter, 1917:							
Panama.....	61,369	457	446	11	29.78	29.07	0.72
Colon.....	26,078	180	174	6	27.61	26.69	.92
Canal Zone.....	24,038	66	56	10	10.98	9.32	1.67
Total.....	111,485	703	676	27	25.22	24.26	.96

*Exclusive of military population.

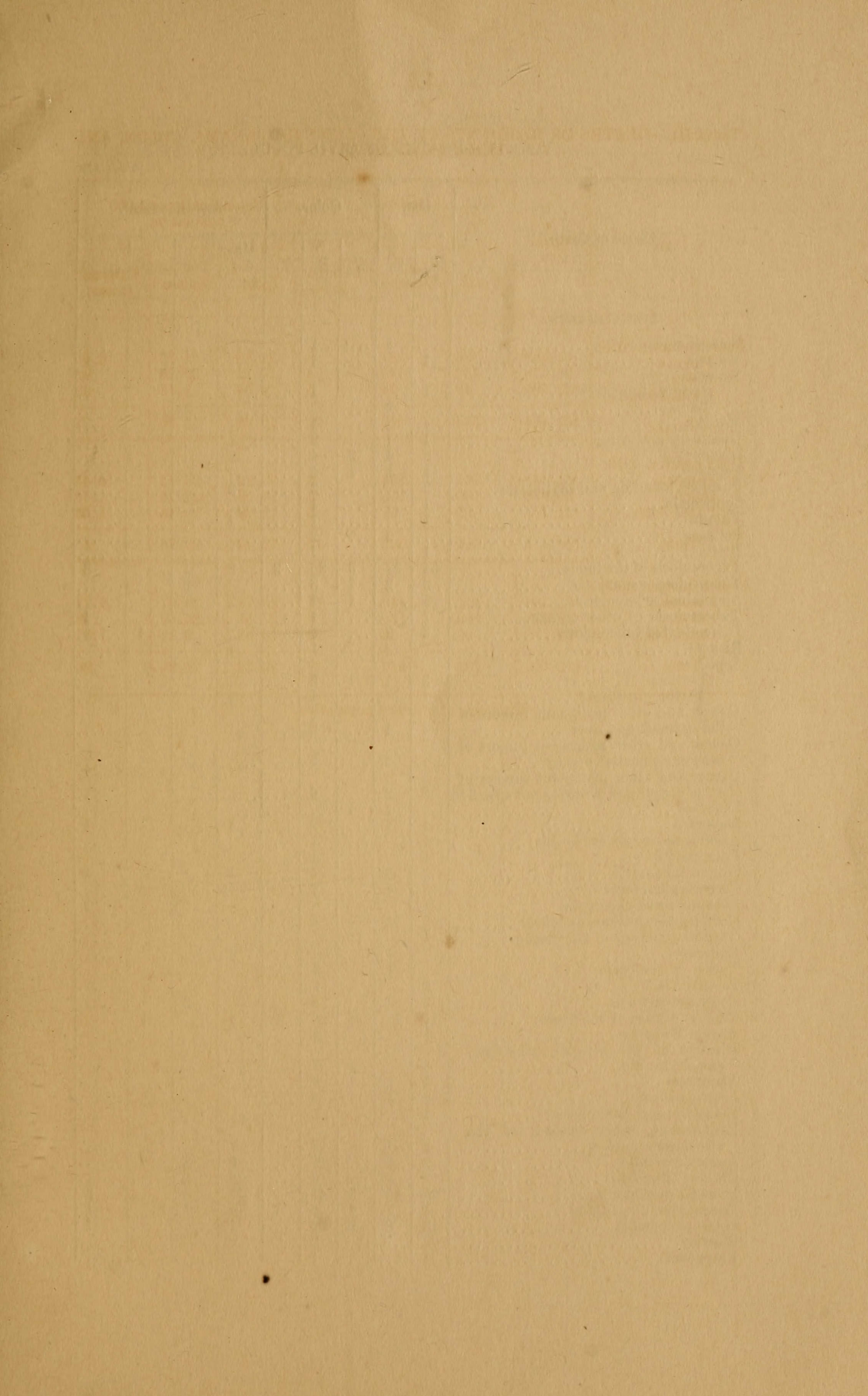


TABLE IV.—DEATHS OF CIVIL POPULATION (EMPLOYEES
PLACE OF

Cause of death.	Sex.		Color.			Age (in years).			
	M.	F.	W.	B.	Y.	Un- der 1 yr.	1-4	5-10	11-20
<i>General diseases.</i>									
Relapsing fever.....		1		1					
Malaria.....	1			1					1
Malarial fever:									
Estivoautumnal.....	1			1					
Tertian.....		2		2			2		
Measles.....		1		1		1			
Dysentery and croup.....	1	1		2		1			
Influenza.....	2	4	2	4		3			
Leprosy.....	1	2	1	2					
Purulent infection and septicemia.....	2			2		2			
Septicemia.....	1			1					
Tetanus.....	1			1		1			
Pellagra.....		2		2					
Beriberi.....	1			1		1			
Tuberculosis of the lungs.....	54	37	3	86	2	2	1		8
Tuberculous meningitis.....	2	2	1	3		2	2		
Abdominal tuberculosis.....	2		1	1		2			
Tuberculosis of other organs.....	1			1					1
Disseminated tuberculosis.....	3	2		5			3	1	
Rickets.....		1		1		1			
Syphilis:									
Tertiary.....	3	1	1	3					
Period not stated.....	1			1		1			
Cancer and other malignant tumors of the stomach and liver.....	1	1		2					
Cancer and other malignant tumors of the female genital organs.....		5		5					
Cancer and other malignant tumors of other organs and of organs not specified.....	2	2		4					
Diabetes.....		1	1						
Leukemia.....	1	1		2		1			1
Alcoholism (acute or chronic).....	1			1					
Encephalitis.....	1			1					
Simple meningitis.....	2	3	1	4		1	1		1
Cerebrospinal fever.....	3	1		4				2	
Pneumococcus meningitis.....	1			1					1
Cerebral hemorrhage, apoplexy.....	2	3	1	4					
General paralysis of the insane.....	1		1						
Epilepsy.....		1		1		1			
Tumor of the brain.....		1		1					
Pericarditis.....	2			2					
Acute endocarditis.....	1	3		4		1	2		
Organic disease of the heart.....	16	11	2	24	1	1		1	
Angina Pectoris.....	1			1					
Diseases of the arteries, atheroma, aneurysm, etc.....	3		1	2					
Aneurysm.....	3	2	1	4					
Arteriosclerosis.....	2	5	1	6					
Embolism and thrombosis.....	2			2					
Hemorrhage; other diseases of the circulatory system.....	2	1		3		1			
Acute bronchitis.....	9	9		18		9	8	1	
Chronic bronchitis.....	2	3		5		2	1		
Broncho-pneumonia.....	29	15	3	41		25	8		2
Pneumonia, unqualified.....	4	7	4	6	1	4	2		1
Lobar pneumonia.....	13	8	2	19		2			1
Pleurisy.....	2			2					
Empyema.....	1			1					

AND NONEMPLOYEES), BY CAUSE, SEX, COLOR, AGE, AND RESIDENCE.

Age (in years)—Continued.							Place of residence.			
21-30	31-40	41-50	51-60	61-75	76-100	(?)	Pan-ama.	Colon.	Canal Zone.	Total.
	1						1			1
							1			1
	1						1			1
							2			2
	1						1	1		2
1			1	1			4	1	1	6
1	1				1		3			3
							2			2
	1								1	1
								1		1
	1	1					1	1		2
							1			1
40	23	11	4	2			61	25	5	91
							2	1	1	4
								2		2
								1		1
1							4	1		5
							1			1
	2	2					1	1	2	4
							1			1
	1		1				1	1		2
	1	2	2				1	2	2	5
		1	1	1	1		4			4
					1		1			1
		1					1	1		2
		1					1			1
							1	1		1
2							4	1		5
	2						3	1		4
								1		1
	3	1	1				3	2		5
		1							1	1
							1			1
1							1			1
1	1						2			2
		1					4			4
8	4	5	4	3	1		17	9	1	27
	1						1			1
		3						3		3
	3	1				1	1	4		5
	1	1	3		2		4	3		7
	1	1					2			2
	1	1					2	1		3
							11	7		18
		2					1	4		5
2	4	1		2			30	11	3	44
1	2	1					7	2	2	11
7	6	1	3			1	8	7	6	21
1		1					1		1	2
1							1			1

TABLE IV.—DEATHS OF CIVIL POPULATION (EMPLOYEES AND RESIDENCE—

Cause of death.	Sex.		Color.			Age (in years).			
	M.	F.	W.	B.	Y.	Under 1 yr.	1-4	5-10	11-20
<i>General diseases.—Continued.</i>									
Pulmonary congestion, pulmonary apoplexy.....	2	2	1	3	.....	1	.....	.....	.....
Gangrene of the lungs.....	1	.....	.....	.....	1	.....	.....	.....	.....
Ulcer of the stomach.....	1	1	.....	2	.....	.....	.....	.....	1
Other diseases of the stomach (cancer excepted).....	1	.....	.....	1	.....	1	.....	.....	.....
Acute gastritis.....	1	.....	1	.....	.....	.....	.....	.....	.....
Acute indigestion.....	2	1	1	2	.....	3	.....	.....	.....
Diarrhea and enteritis (under 2 years).....	21	24	.....	45	.....	37	8	.....	.....
Diarrhea and enteritis (2 years and over).....	1	3	.....	4	.....	.....	1	1	.....
Ankylostomiasis.....	1	.....	.....	1	.....	.....	.....	.....	1
Hernia, intestinal obstructions.....	1	2	.....	3	.....	1	.....	.....	.....
Intestinal obstructions.....	1	.....	.....	1	.....	.....	.....	.....	.....
Cirrhosis of the liver.....	4	.....	.....	2	2	.....	.....	.....	.....
Other diseases of the liver.....	1	1	.....	2	.....	1	.....	.....	.....
Abscess of liver (unqualified).....	1	.....	.....	1	.....	.....	.....	.....	1
Cholecystitis.....	1	.....	.....	1	.....	.....	.....	.....	.....
Simple peritonitis (nonpuerperal).....	5	3	.....	8	.....	.....	.....	.....	.....
Other diseases of the digestive system (cancer and tuberculosis excepted).....	.....	1	.....	1	.....	.....	.....	.....	.....
Acute nephritis.....	5	6	1	10	.....	2	.....	.....	.....
Bright's disease (chronic nephritis).....	19	7	1	25	.....	1	.....	.....	.....
Other diseases of the kidney and annexa.....	1	1	1	1	.....	1	.....	.....	.....
Bilharziasis of urinary tract.....	.....	1	.....	1	.....	.....	1	.....	.....
Other diseases of the uterus.....	.....	1	.....	1	.....	.....	.....	.....	.....
Hyperemesis gravidarum.....	.....	1	.....	1	.....	.....	.....	.....	.....
Puerperal hemorrhage.....	.....	2	.....	2	.....	1	.....	.....	.....
Puerperal septicemia.....	.....	3	.....	3	.....	.....	.....	.....	.....
Puerperal insanity.....	.....	1	1	.....	.....	.....	.....	.....	.....
Gangrene.....	1	.....	.....	1	.....	.....	.....	.....	.....
Carbuncle.....	.....	1	.....	1	.....	1	.....	.....	.....
Pemphigus contagiosus.....	.....	1	.....	1	.....	1	.....	.....	.....
Mastoid abscess.....	.....	1	.....	1	.....	.....	1	.....	.....
Congenital malformations (stillbirth not included).....	1	1	.....	2	.....	2	.....	.....	.....
Newborn child.....	2	2	.....	4	.....	4	.....	.....	.....
Congenital debility, icterus, and scleroma.....	2	1	.....	3	.....	3	.....	.....	.....
Premature birth.....	3	3	.....	6	.....	6	.....	.....	.....
Congenital debility.....	5	3	1	7	.....	8	.....	.....	.....
Malnutrition.....	12	12	.....	24	.....	19	4	.....	1
Other causes peculiar to early infancy (including various consequences of labor).....	3	1	.....	4	.....	4	.....	.....	.....
Senility.....	.....	2	.....	2	.....	.....	.....	.....	.....
Suicide by poisoning.....	1	.....	1	.....	.....	.....	.....	.....	.....
Suicide by hanging or strangulation.....	1	.....	.....	1	.....	.....	.....	.....	1
Suicide by cutting or piercing instruments.....	1	.....	.....	1	.....	.....	.....	.....	.....
Conflagration.....	.....	1	.....	1	.....	1	.....	.....	.....
Accidental drowning.....	3	.....	.....	3	.....	.....	.....	.....	1

NONEMPLOYEES), BY CAUSE, SEX, COLOR, AGE, AND PLACE OF
Continued.

Age (in years)—Continued.							Place of residence.			
21-30	31-40	41-50	51-60	61-75	76-100	(?)	Pan- ama.	Colon.	Canal Zone.	Total.
		1	2				3	1		4
	1						1			1
		1						2		2
							1			1
		1					1			1
								2	1	3
	1	1					34	9	2	45
							1	2	1	4
			2				2	1		3
1								1		1
		4					3	1		4
		1					2			2
							1			1
1							1			1
2	5	1					5	2	1	8
		1						1		1
3	1	1	1	3			4	6	1	11
4	3	8	5	3	1	1	19	6	1	26
		1					1		1	2
							1			1
1									1	1
1								1		1
1							2			2
2		1					2		1	3
1							1			1
		1							1	1
							1			1
							1			1
									1	1
							1	1		2
							3		1	4
							1	1	1	3
							2	3	1	6
							8			8
							15	7	2	24
							2	2		4
					2		2			2
	1								1	1
							1			1
1									1	1
									1	1
2							1	1	1	3

TABLE IV.—DEATHS OF CIVIL POPULATION (EMPLOYEES AND RESIDENCE—

Cause of death.	Sex.		Color.			Age (in years).			
	M.	F.	W.	B.	Y.	Under 1 yr.	1-4	5-10	11-20
<i>General diseases.—Continued.</i>									
Traumatism by fall.....	2	.....	.....	2	.....	.....	1	.....	.....
Traumatism by other crushings.....	4	1	.....	5	.....	.....	.....	.....	1
Traumatism by landslides.....	1	.....	.....	1	.....	.....	.....	.....	.....
Lightning.....	1	.....	.....	1	.....	.....	.....	.....	.....
Homicide by firearms.....	2	.....	.....	2	.....	.....	.....	.....	1
Fractures (cause not specified).....	.....	1	1	.....	.....	.....	1	.....	.....
Other external violence.....	1	.....	.....	1	.....	1	.....	.....	.....
Cause of death not specified or ill-defined.	2	4	1	5	.....	3	2	.....	.....
Total.....	302	235	38	492	7	167	49	6	25
Stillbirths.....	41	34	10	65	.....	.....	.....	.....	.....
Grand total.....	343	269	48	557	7	167	49	6	25

NONEMPLOYEES), BY CAUSE, SEX, COLOR, AGE, AND PLACE OF
Continued.

Age (in years)—Continued.							Place of residence.			Total.
21-30	31-40	41-50	51-60	61-75	76-100	(?)	Pan- ama.	Colon.	Canal Zone.	
	1							2		2
2	1			1			2	2	1	5
		1					1			1
	1						1			1
	1						2			2
							1			1
								1		1
1							5		1	6
92	78	62	30	16	9	3	336	152	49	537
							43	15	17	75
92	78	62	30	16	9	3	379	167	66	612

TABLE IV-A.—DEATHS

Cause of death.	Sex.		Color.		Under 1 year.
	M.	F.	W.	B.	
Cancer.....	4		1	3	
Pneumonia, unqualified.....	2		1	1	
Pneumonia, lobar.....	12	2	9	5	
Pneumonia, broncho.....	5	1	2	4	
Pyemia.....	1		1		
Arteriosclerosis.....	1		1		
Tuberculosis, pulmonary.....	6	2		8	
Malaria.....	2		1	1	
Typhoid fever.....	1		1		
Nephritis, chronic.....	3	1	2	2	
Influenza.....	4		4		
Dysentery.....	2		1	1	
Erysipelas.....		1		1	1
Gangrene.....	1			1	
Peritonitis.....		1		1	
Organic heart disease.....	5	2	1	6	
Epilepsy.....		1		1	
Syphilis.....	1			1	
Cirrhosis of the liver.....	1		1		
Drowning, accidental.....	2		1	1	
Traumatism by firearms.....	1			1	
Total.....	54	11	27	38	1

* Includes deaths of all nonresidents, passengers off incoming ships, etc.

Deaths of nonresidents are not taken up in the statistical charts relating to Panama, Colon.

OF NONRESIDENTS:

Age (in years).									Total.
1-4	5-10	11-20	21-30	31-40	41-50	51-60	61-75	+75	
			1	1	1	1	2		4
			9	2	1	1			2
		1	2					1	14
	1	2		1					6
				1					1
							1		1
			5	1	1		1		8
			2						2
			1						1
				1	2	1			4
			2		2				4
					1		1		2
					1				1
			1						1
				2	1	3	1		7
			1						1
						1			1
					1				1
				2					2
				1					1
	1	3	24	11	11	7	6	1	65

and the Canal Zone.

TABLE V.—DEATHS BY NATIONALITY OR NATIVITY.

Nationality.	Employees.		Nonemployees.		Totals.		Grand total.
	Male.	Female.	Male.	Female.	Male.	Female.	
Antigua.....	2		2	2	4	2	6
Barbados.....	6		41	39	47	39	86
Bermuda.....				2		2	2
Chile.....			1		1		1
China.....			11	1	11	1	12
Colombia.....	3		15	8	18	8	26
Costa Rica.....			1	2	1	2	3
Cuba.....			1		1		1
Demerara.....			2	2	2	2	4
Dominica.....				2		2	2
Ecuador.....			1	1	1	1	2
Fortune Island.....	1		2		3		3
France.....			3	3	3	3	6
Grenada.....	1		6	5	7	5	12
Guadeloupe.....	1			1	1	1	2
Greece.....				2		2	2
Guiana, British.....			1	1	1	1	2
Ireland.....			1		1		1
Italy.....			4	1	4	1	5
Jamaica.....	15	1	51	53	66	54	120
Martinique.....			10	4	10	4	14
Mexico.....			4		4		4
Montserrat.....			1		1		1
Nicaragua.....			1	2	1	2	3
Panama.....	3		80	79	83	79	162
Peru.....			3	1	3	1	4
Scotland.....			1		1		1
Spain.....			4	1	4	1	5
St. Vincent's.....	2		2		4		4
St. Lucia.....	1		4	6	5	6	11
St. Kitts.....				1		1	1
St. Thomas.....				1		1	1
Santo Domingo.....				1		1	1
Trinidad.....			2	3	2	3	5
United States.....	3		7	4	10	4	14
Venezuela.....			1	3	1	3	4
Unknown.....			3	1	3	1	4
Totals.....	38	1	266	232	304	233	537

TABLE VI.—STATISTICS RE AMERICAN EMPLOYEES AND THEIR FAMILIES.

	Annual death rate per 1,000 population.
White employees from the United States:	
Disease.....	3.24
External causes.....	
Total.....	3.24
White women and children from the United States:	
Disease.....	3.80
External causes.....	
Total.....	3.80
White employees from the United States and their families:	
Disease.....	3.56
External causes.....	
Total.....	3.56
Number of American children born on the Isthmus for three months ending December 31	64
Deaths among American children under 1 year of age.....	4
Infant mortality rate among American children (number of deaths per 1,000 births)....	62.50

TABLE VII.—BIRTHS AND BIRTH RATES IN THE CANAL ZONE AND THE CITIES OF PANAMA AND COLON.

	Popula- tion.	Births.			Rate per 1,000 popu- lation.		
		Total.	Alive.	Still- born.	Total.	Alive.	Still- born.
Fourth quarter, 1918:							
Panama.....	61,369	648	605	43	42.24	39.44	2.80
Colon.....	26,078	231	216	15	35.44	33.12	2.28
Canal Zone.....	21,707	220	203	17	40.52	37.40	3.12
Total.....	109,154	1,099	1,024	75	40.28	37.52	2.76
Third quarter, 1918:							
Panama.....	61,369	567	517	50	36.96	33.68	3.24
Colon.....	26,078	206	184	22	31.60	28.20	3.36
Canal Zone.....	21,707	197	182	15	36.28	33.52	2.76
Total.....	109,154	970	883	87	35.52	32.36	31.88
Fourth quarter, 1917:							
Panama.....	61,369	825	770	55	53.77	50.19	3.58
Colon.....	26,078	246	234	12	37.73	35.89	1.84
Canal Zone.....	24,038	219	208	11	36.44	34.61	1.83
Total.....	111,485	1,290	1,212	78	46.28	43.48	2.80

* Exclusive of military population.

TABLE VIII.—INFANT MORTALITY RATES IN THE CANAL ZONE AND THE CITIES OF PANAMA AND COLON.

	Popula- tion.	Births.			Deaths among children under 1 year of age.	Death rate per 1,000 births.
		Male.	Fe- male.	Total.		
Fourth quarter, 1918:						
Panama.....	61,369	313	292	605	121	200.00
Colon.....	26,078	126	90	216	36	166.66
Canal Zone.....	21,707	102	101	203	10	49.26
Total.....	109,154	541	483	1,024	167	163.08
Third quarter, 1918:						
Panama.....	61,369	282	235	517	99	191.49
Colon.....	26,078	89	95	184	41	222.83
Canal Zone.....	21,707	89	93	182	14	76.92
Total.....	109,154	460	423	883	154	174.41
Fourth quarter, 1917:						
Panama.....	61,369	384	386	770	187	242.86
Colon.....	26,078	107	127	234	62	264.95
Canal Zone.....	24,038	105	103	208	16	76.92
Total.....	111,485	596	616	1,212	265	218.65

* Exclusive of military population.

TABLE IX.—DEATHS OF INFANTS BY CAUSE,

Cause of death.	Sex.		Color.		—1 week.	— 1 week, + 1 month.
	M.	F.	W.	B.		
Measles.....		1		1		
Diphtheria.....		1		1		1
Influenza.....	1	2		3		
Purulent infection and septicemia.....	2			2		
Tetanus.....	1			1	1	
Beriberi.....	1			1		
Tuberculosis, pulmonary.....	1	1		2		
Tuberculosis, meningitis.....	1	1		2		
Tuberculosis, abdominal.....	2			2		
Rickets.....		1		1		
Syphilis.....	1			1	1	
Leuchæmia.....		1		1	1	
Meningitis, simple.....		1		1		
Epilepsy.....		1		1		
Acute endocarditis.....	1	1		1		
Organic heart disease.....	1			1		
Hemorrhage; other diseases of the circulatory system.....		1		1		
Bronchitis, acute.....	5	4		9	2	
Bronchitis, chronic.....	1	1		2	1	
Pneumonia, broncho.....	15	10	1	24	1	1
Pneumonia, unqualified.....	2	2		4	2	
Pneumonia, lobar.....		2		2	1	
Pulmonary congestion.....	1			1	1	
Intestinal obstruction, hernia.....		1		1		
Gastritis.....	1			1	1	
Acute indigestion.....	2	1	1	2		
Diarrhea and enteritis.....	19	18		37		1
Nephritis.....	2	1		3		
Diseases of the kidney and annexa.....	1		1			
Congestion of the liver.....		1		1		
Carbuncle.....		1		1		
Pemphigus, contagiosus.....		1		1		
Congenital malformations.....	1	1		2	1	
Newborn child.....	2	2		4	4	
Congenital debility, icterus, and sclerema.....	2	1		3	2	1
Premature birth.....	3	3		6	5	
Congenital debility.....	5	3	1	7	6	1
Malnutrition.....	9	10		19		1
Other causes peculiar to early infancy.....	3	1		4	4	
Conflagration.....		1		1		
External violence.....	1			1	1	
Cause not specified or ill-defined.....	4			4	1	
Total.....	90	77	4	163	36	6

Infant mortality rate, based on number of births reported for the quarter (deaths under 1
 Percentage of deaths under 1 year of age to total deaths for 3 months ending December 31,

SEX, COLOR, AGE, AND PLACE OF RESIDENCE.

Age (by months).											Place of residence.			
1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	Panama	Colon.	Canal Zone.	Total.
						1					1			1
											1			1
1	2										3			3
								2			2			2
									1			1		1
			1			1					1			1
							2				2			2
1	1										1	1		2
												2		2
											1			1
											1			1
							1					1		1
	1										1			1
										1	1			1
1						1					1			1
1	3			1	1				1		6	3		9
								1				2		2
1	5	2	4	3	2	2	1	2	1		22	3		25
								1		1	4			4
										1	1		1	2
	1										1			1
												1		1
	2	1		3	4	4	4	3	1	3		2	1	3
3	2	6	3	3							30	7		37
		1	1					1			1	1	1	3
	1												1	1
	1												1	1
		1									1			1
1											1	1		2
											3		1	4
						1					1	1	1	3
							1				2	3	1	6
				1							8			8
1	1	5		1	1	2	2		4	1	14	4	1	19
											2	2		4
1													1	1
												1		1
1								1		1	3		1	4
12	20	16	9	9	8	13	10	11	8	9	121	36	10	167
year of age per 1,000 births).....											200.00	166.66	49.26	163.09
1918.....											36	24	20	31

TABLE X.—BIRTHS, CLASSIFIED

Birthplace of father.	Birthplace of mother.																	
	Antigua.	Antilles.	Barbados.	Canada.	Chile.	Colombia.	China.	Costa Rica.	Demarara.	Dominica.	Denmark.	England.	France.	Grenada.	Guadeloupe.	Holland.	Ireland.	Italy.
Africa																		
Antigua	9		1						1									
Antilles														1				
Barbados			170							1				3	1			
Canada																		
Chile					1													
China							2											
Colombia			1			7												
Costa Rica								1										
Cuba																		
Curacao D. W. I.											1							
Demarara									2									
Denmark				1														
Ecuador																		
England											1							
France													2					
Germany											1							
Greece																1		
Grenada										1				18				
Guadeloupe			1												2			
Guiana, British			2															
Guatemala																		
Holland																		
Ireland																		
Italy																		3
Jamaica	2	1	5			1			2					1				
Japan																		
Martinique																		
Montserrat																		
Nevis																		
Nicaragua																		
Nova Scotia																		
Panama		2	2			5		2										
Peru						1												
Porto Rico						1												
Russia																		
St. Kitts																		
St. Lucia	1		2															
St. Vincent																		
Scotland												1						
Spain						2												
Trinidad										1				1				
United States				1		3						1					1	
Venezuela																		
Others																		
Total	12	3	184	2	1	20	2	3	5	3	3	2	2	24	3	1	1	3

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER,

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.			
General diseases.												
Typhoid fever.....			1									
Paratyphoid fever.....												
Relapsing fever.....												
Malaria.....				1								
Malarial fever:												
Estivoautumal.....	3		1	3	49							1
Tertian.....	1		1		13							
Quartan.....	1											
Undetermined.....	1			3	17							
Clinical.....					1							
Cachexia.....					4							
Smallpox:												
Vaccinia.....	1											
Measles.....					1							
Scarlet fever.....												
Whooping cough.....												
Diphtheria and croup.....												
Influenza.....	43		15	8	1	82	2					
Dysentery:												
Entamebic.....	1											
Unclassified.....												
Leprosy.....					1							
Erysipelas.....	1											
Chickenpox.....					1							
Mumps.....					1							
Filariasis.....												
Purulent infection and septicemia.....	1		1		2							
Pyemia.....												
Tetanus.....												
Pellagra.....				1								
Beriberi.....												
Tuberculosis of the lungs.....	1			1	7							2
Tuberculous meningitis.....												
Abdominal tuberculosis.....					1							
Pott's disease.....												1
Tuberculosis of bones and joints.....												1
Tuberculosis of the lymph glands.....										1		1
Disseminated tuberculosis.....												
Syphilis:												
Primary.....					9							
Secondary.....	1				2							

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND 1918.

Nonemployees.										Nonresidents.										Total discharges.	Total deaths.
Discharges.					Deaths.					Discharges.					Deaths.						
White.			Black.		White.			Black.		White.		Black.		White.		Black.					
Soldiers.	Others.				Soldiers.	Others.				M.	F.			M.	F.			M.	F.		
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
			2							1				1				4	1		
										1								1			
	1																	1			
3																		4			
65	5	4	10	8	2	1				2		1						151	4		
29	8	4	2	3						2								63			
1																		2			
6		1		3														31			
6	1			1														9			
	2	1	30	34								1	12	12				96			
			1	1	3													1			
	1													1				6			
	2	1	1															2			
1			3	1														4			
201	35	43	12	13	6	1	1			66		9		1				5			
1	1									1								4			
			2															2			
	1		2															4			
	1																	2			
	1		3	3														8			
1																		2			
1	1																	2			
2	1	1							1									8	1		
										1								1			
			1															1			
								1	1									1	2		
	1		1					1										2	1		
13	1	1	1	1	1	1		6	7	2				1			1	28	18		
	1				1				1									1	2		
					1													2			
					1													1	2		
								1											1		
			1	3														4	2		
								1											1		
4										1								14			
11										3								17			

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND 1918.—Continued.

Nonemployees.										Nonresidents.								Total discharges.	Total deaths.
Discharges.					Deaths.					Discharges.				Deaths.					
White.			Black.	White.			Black.	White.		Black.	White.		Black.	White.		Black.			
Soldiers.	Others.			Soldiers.	Others.			M.	F.		M.	F.		M.	F.		M.			F.	M.	F.
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
32		1	8	13		1		1		6		1						109	2
	1																	1	
6																		6	
				2														2	
11			1							10								37	
			1	1														3	
1																		2	
	1		1							1								9	
	1			3														5	
7										2		1						23	
3				1														4	
										1								1	
										2								3	1
		1		2				1										3	1
		1	1															3	
6				1														10	
			1															1	
				1														1	
				1														1	
1																		1	
1	2	1																4	
1	2																	4	
	1			1						2								2	
																		2	
			1							1								2	
2	1					1				2								5	1
	1								1									2	3
	1	1																2	
										1								1	
				1														3	2
	1																	1	

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER,

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.			
<i>Diseases of the nervous system and of the organs of special sense.—Cont.</i>												
General paralysis of the insane.....							1					
Other forms of mental alienation.....					2							
Dementia præcox.....												
Epilepsy.....					1							
Convulsions (nonpuerperal) (5 years and over).....												
Hysteria.....												
Neuralgia.....												
Neuritis.....	2		2		3							
Other diseases of the nervous system..	1	1			2							
Neurasthenia.....		1			3			1				
Diseases of the eyes and their annexa..			3		20	1						
Diseases of the ears.....	4		2		6							
<i>Diseases of the circulatory system.</i>												
Organic diseases of the heart.....	1		1		18						1	1
Angina pectoris.....	1											
Diseases of the arteries, atheroma, aneurysm, etc.....					1							
Aneurysm.....					1							
Arteriosclerosis.....					2						1	
Embolism and thrombosis.....					1							
Diseases of the veins (varices, hemorrhoids, phlebitis, etc.).....	1				1							
Hemorrhoids.....	6				4							
Varices.....					1							
Varicocele.....	3											
Phlebitis.....					1							
Diseases of the lymphatic system (lymphangitis, etc.).....	1				1							
Lymphadenitis (nonvenereal).....			1		8							
Hemorrhage; other diseases of the circulatory system.....											1	
<i>Diseases of the respiratory system.</i>												
Diseases of the nasal fossæ.....	4				2							
Myiasis of nasal fossæ and sinuses.....												
Diseases of the larynx.....												
Laryngitis.....												
Diseases of the thyroid body.....	1											
Acute bronchitis.....	1				1							
Chronic bronchitis.....			1		1							

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND 1918.—Continued.

[illegible]

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.			
<i>Diseases of the respiratory system.—</i> Continued.												
Broncho-pneumonia.....					2							
Pneumonia (unqualified).....							1					
Lobar pneumonia.....			1		3							5
Pleurisy.....	3				1							
Pulmonary congestion, pulmonary apoplexy.....												1
Asthma.....	1											1
Pulmonary emphysema.....												
Abscess of lungs.....					1							
<i>Diseases of the digestive system.</i>												
Diseases of the mouth and annexa.....												
Diseases of the teeth and gums.....	1	1	1		1							
Stomatitis.....												
Diseases of the pharynx.....					1							1
Pharyngitis.....	2											
Follicular tonsillitis.....	11	2			11							
Ulcer of the stomach.....	1				2							
Other diseases of the stomach (cancer excepted).....	3											
Acute gastritis.....												
Chronic gastritis.....					2							
Acute indigestion.....	1				1							
Diarrhea and enteritis (under 2 years).....												
Colitis (under 2 years).....					1							
Diarrhea and enteritis (2 years and over).....	3		2		5							
Colitis (2 years and over).....	2											
Ankylostomiasis.....					4							
Intestinal parasites.....												
Ascariasis.....												
Teniasis.....												
Appendicitis and typhilitis.....												
Acute appendicitis.....	7	1			1							
Chronic appendicitis.....	2	2										
Inguinal hernia.....	3		3		53							
Other hernias.....	1											
Intestinal obstruction.....												1
Other diseases of the intestines.....	5		2		2							

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND 1918.—Continued.

Nonemployees.										Nonresidents.								Total discharges.	Total deaths.
Discharges.					Deaths.					Discharges.				Deaths.					
White.			Black.		White.			Black.		White.		Black.		White.		Black.			
Soldiers.	Others.				Soldiers.	Others.				Soldiers.	Others.			Soldiers.	Others.				
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
5		1	2	3	1			3										13	4
1		2	1	1			2			1								6	3
10	1		6	3	10		1		2	2				5				26	23
4			4	5				1		2								19	1
1																		1	1
11				1														13	1
1																		1	
																		1	
-6		2		3														11	
4	1	2	2							1								14	
	1	1	1	4														7	
2	3	2	1															9	1
2	1																	5	
62	21	19	11	13						4								154	
	1						1			1								4	
1		1		1														7	
4																		4	
4																		6	
6	1	1		5						2								17	
	2	2				1			1									4	2
		1																2	
3	2	5		2					1									22	1
62				1				1		1								2	
1		1	1															68	1
		1																3	
1		1																1	
1																		2	
1																		1	
24	9	3	1	2						2								50	
12	2	3		1						1								23	
11	3		3	1						3		1						81	
				1														2	
																			1
14		1		2														26	

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND 1918.—Continued.

Nonemployees.										Nonresidents.								Total discharges.	Total deaths.
Discharges.					Deaths.					Discharges.				Deaths.					
White.			Black.		White.			Black.		White.		Black.		White.		Black.			
Soldiers.	Others.				Soldiers.	Others.													
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
4			2		2													14	
2	1																	3	
1							1								1			2	2
												1						2	1
2	2		1		1			1										9	2
	1																	3	
																		1	
				1														3	2
				1	1				1										

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER,

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.	Europeans.		Americans.		Europeans.						
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
<i>The puerperal state.—Continued.</i>												
Extra-uterine pregnancy.....												
Hyperemesis gravidarum.....												
Abortion.....		1										
Other accidents of labor.....												
Puerperal septicemia.....												
Puerperal albuminaria and convulsions.....												
Following childbirth (not otherwise defined).....												
Puerperal insanity.....												
<i>Diseases of the skin and cellular tissue.</i>												
Gangrene.....												
Furuncle.....												
Carbuncle.....			1			1						
Acute abscess.....	1				12							
Phlegmon and cellulitis.....	2		1		5		1	1	1			
Trichophycosis.....												
Scabies.....												
Elephantiasis.....					1							
Myiasis of skin.....			1									
Dhobie itch.....					2							
Ulcer of the skin.....					7							
Impetigo contagiosa.....												
Urticaria.....		1										
Ingrowing nail.....	3	2										
Other diseases of the skin and annexa.....	1				4	1						
<i>Diseases of the bones and of the organs of locomotion.</i>												
Diseases of the bones (tuberculosis excepted).....	2				4							
Caries (nontuberculous).....												
Mastoid abscess.....												
Osteomyelitis.....												
Diseases of the joints (tuberculosis and rheumatism excepted).....	1											
Ankylosis.....												
Arthritis.....	3		1		6							
Synovitis.....	1											
Other diseases of the organs of locomotion.....	3				6							

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER,

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.		M.	F.
<i>Malformations.</i>												
Congenital malformations (stillbirth not included).....	1				20							
<i>Diseases of early infancy.</i>												
Newborn child.....												
Premature birth.....												
Malnutrition.....												
Other diseases peculiar to early infancy (including various consequences of labor).....												
<i>Old age.</i>												
Senility.....												
<i>Affections produced by external causes.</i>												
Suicide by poisoning.....							1					
Suicide by cutting or piercing instruments.....												
Poisoning by food.....	4				2							
Other acute poisonings.....	1											
Conflagration.....					1							
Burns (conflagrations excepted).....					2							
Traumatism by firearms.....												
Traumatism by cutting or piercing instruments.....	1		6		28							
Traumatism by fall.....	8		1		5							
Traumatism by machines.....	1		1		6						1	
Traumatism by other crushings.....					5						1	
Railroad traumatism.....					2							
Traumatism by landslides.....											1	
Injuries by animals.....												
Effects of heat.....												
Lightning.....												
Electricity (lightning excepted).....												
Fractures (cause not specified).....	1											
Dislocations.....												
Sprains.....					3		2					
Other external violence.....	1				39							

TABLE XI.—DISCHARGES AND DEATHS IN THE HOSPITALS OF THE
DECEMBER,

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.			
<i>Ill-defined diseases.</i>												
Cause of death not specified or ill-defined.....												
Infections of undetermined origin....	1				2							
No disease.....					12	1						
Feigned disease.....												
Grand total.....	175	38	54	2	716	12	3	1	2	2	28	3

PANAMA CANAL FOR THE MONTHS OF OCTOBER, NOVEMBER, AND
1918.—Continued.

Nonemployees,										Nonresidents.										Total discharges.	Total deaths.
Discharges.					Deaths.					Discharges.					Deaths.						
White.			Black.		White.			Black.		White.			Black.		White.			Black.			
Soldiers.	Others.				Soldiers.	Others.				Soldiers.	Others.				Soldiers.	Others.					
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
1	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	2	1		
8	1	...	...	1	1	...	...	...	...	1	...	...	...	...	...	...	...	14	1		
18	3	23	6	11	...	...	...	...	...	2	1	...	...	...	...	...	...	77	...		
1	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...		
1109	234	341	217	410	22	9	4	32	34	202	4	31	12	12	...	...	1	3557	153		

TABLE XII.—CONSOLIDATED HOSPITAL REPORT.
[A. = White Americans; F. = White foreigners; B. = Black.]

	Remain- ing Oct. 1.			Admitted.			Died.			Discharged.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.	A.	F.	B.
Ancon Hospital:												
Employees.....	24	10	129	172	45	804	2	...	23	171	46	674
Soldiers.....	113	...	...	1,019	...	...	10	...	...	1,006	...	...
Panama pay cases.....	...	...	1	...	...	1	...	...	...	...	...	...
Other pay patients.....	27	24	75	357	226	375	5	10	35	338	202	359
Charity patients.....	3	6	39	65	12	160	...	2	10	56	12	168
Total.....	167	40	244	1,613	283	1,340	17	12	68	1,571	260	1,201
Corozal Hospital (insane):												
Employees.....	2	2	13	...	...	2	1	...	...	...	...	1
Soldiers.....	8	...	...	15	...	...	...	...	...	14	...	...
Panama pay cases.....	3	57	213	...	7	25	...	3	9	...	2	6
Other pay patients.....	...	5	3	...	2	3	...	...	2	...	4	2
Charity patients.....	...	10	67	...	3	6	...	...	1	...	...	2
Total.....	13	74	296	15	12	36	1	3	12	14	6	11
Grand total.....	180	114	540	1,628	295	1,376	18	15	80	1,585	266	1,212
Corozal Farm (cripples):												
Employees.....	...	9	48	...	1	11	...	...	...	...	3	15
Chronic ward:												
Charity patients.....	...	...	26	...	...	3	...	...	...	...	...	2
Nonresidents:												
Hospital.....	...	16	...	...	219	...	...	7	...	...	188	...
Asylum.....	...	55	...	...	2	...	...	3	...	...	3	...
Colon Hospital:												
Employees.....	3	1	11	44	13	69	...	...	4	44	10	52
Soldiers.....	16	2	...	97	19	...	12	...	...	77	15	...
Panama pay cases.....	...	2	7	...	2	33	...	...	5	...	2	25
Other pay patients.....	11	5	18	97	89	96	3	5	3	83	60	90
Charity patients.....	3	1	...	16	3	17	...	...	1	16	4	11
Total.....	33	11	36	254	126	215	15	5	13	219	91	178
Palo Seco Leper Asylum:												
Panama pay cases.....	...	2	42	...	...	3	...	...	2	...	...	...
Charity patients.....	...	1	28	...	...	3	...	1	...	...	...	...
Total.....	...	3	70	...	...	6	...	1	2	...	...	...
Grand total:												
Employees.....	29	22	201	216	59	886	3	...	27	215	59	742
Soldiers.....	137	2	...	1,131	19	...	22	...	...	1,097	15	...
Panama pay cases.....	3	61	263	...	9	62	...	...	16	...	4	31
Other pay patients.....	38	34	96	454	317	474	8	15	40	42	266	451
Charity patients.....	6	18	160	81	18	189	...	3	12	7	16	183
Nonresidents.....	...	71	...	...	221	...	...	10	...	...	191	...
Total.....	213	208	720	1,882	643	1,611	33	31	95	1,804	551	1,407

TABLE XII.—CONSOLIDATED HOSPITAL REPORT.—Continued.
[A.=White Americans; F.=White foreigners; B.=Black.]

	Trans- ferred.			Remain- ing December 31.			Average number con- stantly sick.			
	A.	F.	B.	A.	F.	B.	A.	F.	B.	Total.
Ancon Hospital:										
Employees.....			11	23	9	225	224.33	105.66	141.85	174.84
Soldiers.....	13			103			144.36			144.36
Panama pay cases.....			2						.75	.75
Other pay patients.....		2	6	41	36	50	39.95	32.78	66.63	139.36
Charity patients.....		2	7	12	2	14	10.37	2.22	32.82	45.41
Total.....	13	4	26	179	47	289	217.11	45.56	242.05	504.72
Corozal Hospital (insane):										
Employees.....				1	2	14	1.03	2.00	12.60	15.63
Soldiers.....				9			9.87			9.87
Panama pay cases.....			1	3	59	222	3.00	57.63	214.35	274.98
Other pay patients.....					3	2		4.95	2.89	7.84
Charity patients.....					13	70		12.29	68.95	81.24
Total.....			1	13	77	308	13.90	76.87	298.79	389.56
Grand total.....	13	4	27	192	124	597	231.01	122.43	540.84	894.28
Corozal Farm (cripples):										
Employees.....					7	44		9.35	44.97	54.32
Chronic ward:										
Charity patients.....			1			26			26.64	26.64
Nonresidents:										
Hospital.....		1			39			36.38		36.38
Asylum.....					51			52.61		52.61
Colon Hospital:										
Employees.....	2	1	14	1	3	10	3.16	1.15	8.79	13.10
Soldiers.....	17	5		7	1		9.51	1.31		10.82
Panama pay cases.....		1	8		1	2		.37	3.10	3.47
Other pay patients.....	13	21	7	9	8	14	8.83	8.66	15.22	32.71
Charity patients.....			4	4		1	1.70	.37	.67	2.74
Total.....	32	28	33	21	13	27	23.20	11.86	27.78	62.84
Palo Seco Leper Asylum:										
Panama pay cases.....					2	43		1.00	42.37	43.37
Charity patients.....						31		.80	29.27	30.07
Total.....					2	74		1.80	71.64	73.44
Grand total:										
Employees.....	2	1	25	25	21	293	26.62	23.06	208.21	257.89
Soldiers.....	30	5		119	1		163.74	1.31		165.05
Panama pay cases.....		1	11	3	62	267	3.00	59.00	260.57	322.57
Other pay patients.....	13	23	13	50	47	66	48.78	46.39	84.74	179.91
Charity patients.....		2	12	16	15	142	12.07	15.68	158.35	186.10
Nonresidents.....		1			90			88.99		88.99
Total.....	45	33	61	213	236	768	254.21	225.08	640.26	1,119.55

TABLE XIII.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

	Re- main- ing Oct. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Dec. 31.		Days lost.		
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	Total
Ancon.....	1		261				246		8		8		561		561
Balboa.....	6	7	393	44			394	24	3	21	2	6	1,024	174	1,198
Pedro Miguel....			51				48		3				152		152
Gatun.....	2	1	41	25			24	9	19	17			72	122	194
Cristobal.....	9	36	326	388			328	378		3	7	43	889	4,348	5,237
Total.....	18	44	1,072	457			1,040	411	33	41	17	49	2,698	4,644	7,342

Gamboa dispensary discontinued August 1, 1918.

ALL CASES TREATED BUT NOT EXCUSED.

	Employees.			Nonemployees.			Total.		
	W.	B.	Total.	W.	B.	Total.	W.	B.	Total.
Ancon.....	2,184	9,737	11,921	3,025	4,687	7,712	5,209	14,424	19,633
Balboa.....	12,795	4,859	17,654	9,871	3,015	12,886	22,666	7,874	30,540
Pedro Miguel....	4,812	6,403	11,215	4,203	4,301	8,504	9,015	10,704	19,719
Gatun.....	1,110	1,572	2,682	1,339	1,248	2,587	2,449	2,820	5,269
Cristobal.....	4,095	7,559	11,654	3,667	4,043	7,710	7,762	11,602	19,364
Total.....	24,996	30,130	55,126	22,105	17,294	39,399	47,101	47,424	94,525

TABLE XIV.—CONSOLIDATED ADMISSION REPORT.

	White.	Black.	Total.
Admission to hospitals excluding Corozal farm and chronic ward.....	2,524	1,597	4,121
Admission of employees to quarters.....	1,072	457	1,529
Total admissions to hospitals and quarters.....	3,596	2,054	5,650
Less number of patients transferred between hospitals and from quarters to hospitals, whose admissions are duplicated in the above figures.....	111	102	213
Net admissions to hospitals and quarters.....	3,485	1,952	5,437
EMPLOYEES.			
Employees admitted to hospitals.....	275	886	1,161
Employees admitted to quarters.....	1,072	457	1,529
Total admissions of employees.....	1,347	1,343	2,690
Less number transferred between hospitals and from quarters to hospitals, whose admissions are duplicated in the above figures.....	36	66	102
Net admissions of employees.....	1,311	1,277	2,588
Annual admission rate per thousand employees to hospitals and quarters.....	1,186.16	246.76	412.08

TABLE XV.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Black.	Total.
Hospitals:			
Ancon Hospital.....	36.02	154.45	190.47
Colon Hospital.....	4.31	8.79	13.10
Total.....	40.33	163.24	203.57
Quarters:			
Ancon.....	6.23	.....	6.23
Balboa.....	11.38	1.93	13.31
Pedro Miguel.....	1.69	.....	1.69
Gatun.....	.80	1.36	2.16
Colon.....	9.88	48.31	58.08
Total.....	29.98	51.56	81.58
	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	40.33	29.98	70.31
Black.....	163.24	51.56	214.80
Total.....	203.57	81.54	285.11
Average number of employees constantly sick, per 1,000:			
White.....	9.12	6.78	15.90
Black.....	7.89	2.50	10.39
Total.....	8.10	3.25	11.35

TABLE XVI.—AVERAGE NUMBER OF DAYS IN HOSPITAL OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Black.	Total.
Hospital:			
Ancon Hospital.....	12.37	15.79	14.99
Colon Hospital.....	6.88	8.60	7.83
Total (average).....	11.24	15.15	14.13
Quarters:			
Ancon.....	2.30		2.30
Balboa.....	2.62	3.80	2.74
Pedro Miguel.....	2.92		2.92
Gatun.....	1.67	5.88	3.26
Colon.....	2.84	17.86	10.92
Total (average).....	2.59	15.77	6.52

TABLE XVII.—NUMBER OF DAYS HOSPITAL TREATMENT FURNISHED VARIOUS CLASSES OF PATIENTS.

Class.	American.	Foreign.	Black.	Total.
Ancon Hospital:				
Panama Canal employees.....	2,061	973	13,088	16,122
Army and Navy patients.....	13,267			13,267
Panama government pay patients.....			69	69
Other pay patients.....	3,675	3,019	6,128	12,822
Charity patients.....	952	205	3,023	4,180
Total.....	19,955	4,197	22,308	46,460
Corozal Hospital (insane):				
Panama Canal employees.....	95	184	1,160	1,439
Army and Navy patients.....	905			905
Panama government pay patients.....	276	5,302	19,721	25,299
Other pay patients.....		424	266	690
Charity patients.....		1,130	6,344	7,474
Total.....	1,276	7,040	27,491	35,807
Corozal Farm (injured employees): Panama Canal employees.....		859	4,137	4,996
Chronic ward: Charity patients.....			2,451	2,451
Colon Hospital:				
Panama Canal employees.....	289	107	811	1,207
Army and Navy patients.....	875	121		996
Panama government pay patients.....		35	285	320
Other pay patients.....	814	797	1,403	3,014
Charity patients.....	157	35	62	254
Total.....	2,135	1,095	2,561	5,791
Palo Seco Leper Asylum (lepers):				
Panama government pay patients.....		60	1,290	1,350
Charity patients.....			930	930
Total.....		60	2,220	2,280

TABLE XVIII.—WARD LABORATORY REPORTS.

	Ancon Hospital.	Colon Hospital.	Santo Tomas Hospital.
Blood examinations (total number).....	2,977	317	441
Crescents.....	9		
Estivoautumnal.....	256	37	119
Quartan.....	2		
Tertian.....	79	12	
Filaria.....	9		
Differential counts.....	61	27	8
Hemoglobin estimates.....	919	5	
Leucocyte counts.....	255	56	20
Red blood counts.....	26		3
Spirocheta obermeyerii.....		2	
Stool examinations (total number).....	3,077	31	2,151
Ameba.....	38		9
Ascaris lumbricoides.....	59		331
Bilharzia.....	5		
Entameba.....	2		
Balantidium coli.....	1		1
Ciliated monads.....	27		20
Guaiac tests.....	37		
Pus and blood.....	131		
Strongyloides.....	77		51
Tinea saginata.....	7		
Tricocephalus dispar.....	205	1	137
Uncinaria (ova).....	405		588
Mucus and pus.....			11
Blood.....			4
Urine examinations (total number).....	6,798	705	1,725
Albumen.....	1,495	115	318
Bile.....	27		
Casts.....	1,251	79	379
Ciliated monads.....	20		
Epithelia.....	897		
Guaiac tests.....	21		
Hemin crystals.....	20		
Indican.....	301		
Pus and blood.....	1,905		
Sugar.....	1,340	7	11
Pus.....		188	
Blood.....		4	
Acetone.....		7	
Sediment.....		38	
Mucus and pus.....			137
Phosphates.....			24
Urates.....			5
Oxalates.....			2
Cylindroids.....			7
Sputum examinations (total number).....	2,141	39	234
Positive for tubercle bacilli.....	141	1	68

TABLE XVIII.—WARD LABORATORY REPORTS.—Continued.

	Ancon Hospital.	Colon Hospital.	Santo Tomas Hospital.
Smear examinations (total).....	350	2	1,014
Urethral.....	147		
Vaginal.....	51		
Eye.....	1		
Spinal fluid.....	149		3
Nasal smears.....	14		
Smear from foot.....	1		
Positive for gonococci.....		2	328
Positive for diplococci.....			1
Positive for influenza.....			3
Positive for diphtheria.....			9
Positive for B. coli.....			1
Positive for leprosy.....			1
Positive for streptococci.....			3
Positive for typhosus.....			5
Positive for pneumococci.....			1
Surgical tissues.....			18
Pathological tissues.....			125
Chemical analysis.....			5
Wassermann tests.....			637
Positive.....			261
Widal tests.....			12
Blood cultures.....			8
Autogenous vaccines.....			2
Throat cultures.....			18
Positive for B. diphtheria.....			10
Autopsies performed.....			118
Total.....	25,734	1,675	9,387

TABLE XIX.—SURGICAL OPERATIONS PERFORMED.

	Ancon Hospital.		Colon Hospital.		Santo Tomas Hospital.
	Num-ber.	Died.	Num-ber.	Died.	Num-ber.
Amputations:					
Leg.....	4				2
Foot.....	1				
Digits, multiple.....	2		1		3
Amputations of thigh.....					1
Leg, double.....	1				
Operations on bones:					
Craniectomy, decompressive.....	1		3	1	
Laminectomy.....			1	1	
Ostectomy.....	1		1		1
Wiring of fractures, simple.....	4		1		
Wiring of fractures, compound.....					1
Plating of fractures, compound.....	1				
Anthrotomy of knee.....	1				
Bone transplantation.....	1				
Lane plate of femur.....			1		
Adenectomy:					
Cervical.....	3		3		
Axillary.....	3				
Inguinal, single.....	33		1		18
Inguinal, double.....	5		1		6
Femoral.....	5				1
Herniotomy:					
Inguinal, single.....	65	1	14		22
Inguinal, double.....	20		6		5
Ventral.....			1		2
Strangulated.....	1				3
Genito-urinary tract:					
Ureterotomy.....					1
Cystotomy.....			1		
Urethrotomy, internal.....	3				7
Urethrotomy, external.....	7				9
Prostateomy.....	1				
Varicocele, radical cure.....	21		7		
Hydrocele, single, radical cure.....	39		7		6
Hydrocele, double.....	4				
Orchidectomy.....	4				1
Epididymotomy.....	7				1
Amputation of scrotum.....	14				
Curettage uteri.....	33		2		16
Perineoplasty.....	2		7		1
Trachelorrhaphy.....			5		
Vaginal sections.....					1
Vaginal punctures.....					22
Obstetrical:					
Cesarian section, abdominal.....	2				
Accouchement, forceps.....	4		1		
Low forceps.....	3		2		
Version.....			2		
Perineorrhaphy.....	8				
Breech extraction.....	2				

TABLE XIX.—SURGICAL OPERATIONS PERFORMED—Continued.

	Ancon Hospital.		Colon Hospital.		Santo Tomas Hospital.
	Num-ber.	Died.	Num-ber.	Died.	Num-ber.
Thorax:					
Thoracotomy.....	2				
Rectum:					
Hemorrhoids, radical cure.....	24		4		30
Fistula in ano, excision of.....	6		1		1
General:					
Thyroidectomy.....	5				1
Nerve stretching.....	2				
Varicose veins, excision of.....	3		3		
Tenorrhaphy.....	2				1
Excision of surface neoplasms.....	9		1		
Gunshot wounds of soft parts, operation for.....	2				
Stab wounds of soft parts, operation for.....	1	1			
Extensive injuries to soft parts, operation for.....	2				
Plastic operations for severe injuries.....			2		
Plastic operations for effects of disease.....	1		8	1	
Skin graft.....	1		1		10
For general peritonitis (traumatic or appendi- cial.....	2	1	1	1	
For tuberculous peritonitis.....			1		
For intestinal obstruction.....			1		1
Excision of lower lip.....			1		
Laparotomy:					
Exploratory.....	3	1	1		2
Gastro-enterostomy.....	4				
Appendectomy.....	31		50		27
Appendectomy with local peritonitis.....	7		2		
Appendectomy with general peritonitis.....	1		9	1	
Cholecystotomy.....	1				3
Abscess of liver, laparo-hepatotomy for.....	1	1			1
Splenectomy.....					1
Pan-hysterectomy.....			1		23
Supravaginal hysterectomy.....	13	1	21		11
Hysteromyomectomy.....	1		2		
Salpingectomy, single.....	2				9
Salpingectomy, double.....			10		7
Salpingo-oophorectomy.....	4		24		21
Ovarian cystectomy.....	1		5		
Oophorectomy.....			5		13
Suspensio-uteri.....	9		20		15
For ectopic gestation.....			1		
Gunshot wound of abdomen.....			1	1	
Stab wounds of abdomen.....			1		
Major operations, various other.....	7				6
Minor operations, various other.....	364		24		120
Arsphenamine, intravenous.....	1,020				
Reduction of humerus.....	1				
Reduction of forearm.....	3				
Reduction of Pott's fracture.....	1				
Dislocation, elbow.....	1				
Dislocation, shoulder.....	1				
Nailing of fractured femur.....	1				
Open reduction of metacarpal.....	1				
Circumcision.....	81				43
Total.....	1,927	5	269	6	476

TABLE XX.—REPORT OF OPERATIONS, EYE AND EAR DEPARTMENTS.

ANCON HOSPITAL.

Operations performed:

Adenoidectomy.....	51
Cataract extraction.....	1
Chalazion excisions.....	11
Evisceration.....	2
Cautery of turbinates.....	1
Ethmoid curettement.....	1
Removal of foreign body, eye.....	1
Removal of foreign body, nose.....	2
Incision and drainage, peritonsillar abscess.....	5
Incision and drainage, furuncle ear.....	4
Lacrimal sac, removal of.....	1
Lacrimal duct, Bowman's dilation of.....	1
Mastoidectomy.....	7
Myiasis of eyelid, removal of.....	1
Paracentesis.....	27
Maxillary sinus, perforation and drainage of.....	1
Removal of nasal polyps.....	5
Removal of nasal spur.....	1
Pterygium transplantations.....	18
Reduction of compound fracture, nose.....	2
Submucous resection.....	23
Turbinectomy.....	13
Tonsillectomy.....	132
Uvilectomy.....	1
Total.....	312
Refractions.....	414

SANTO TOMAS HOSPITAL.

Ear:

Furunculosis of canal.....	11
Otitis media, acute.....	42
Otitis media, chronic.....	185
Foreign bodies.....	7
Mastoid operations.....	2
Perforation of drum.....	6
Suppurative otitis.....	32

Eye:

Gonorrheal ophthalmia.....	9
Renitis.....	42
Enucleation.....	2
Foreign bodies.....	6
Conjunctivitis.....	177
Phlyctenular conjunctivitis.....	11
Eye examination.....	24
Corneal ulcer.....	53
Keratitis.....	62
Iritis.....	48
Hordeolum.....	3
Cataract.....	260
Chalazion.....	4
Blepharitis.....	12

Operations:

Iridectomy.....	5
Pterygium.....	59
Dislocation of lens.....	9

Nose and throat:

Laryngitis.....	3
Tonsillitis.....	62
Tonsillectomy.....	23
Pharyngitis.....	20
Adenoidectomy.....	2
Submucous resection of septum.....	1
Turbineotomy.....	1
Rhinitis.....	28
Hypertrophy of turbinates.....	46
Foreign bodies.....	4
Peritonsillar abscess.....	9
Suturing of soft palates.....	1

TABLE XXI.—REPORT OF X-RAY DEPARTMENT, ANCON HOSPITAL.

Nature of examinations:

Arm and forearm.....	54
Chest.....	100
Dental.....	67
Elbow.....	15
Foot and ankle.....	58
Foreign body.....	7
Gall bladder.....	12
Hand.....	34
Head.....	2
Hip.....	16
Jaw.....	12
Kidneys.....	32
Knee.....	24
Legs.....	27
Liver.....	2
Ribs.....	4
Shoulder.....	18
Sinews.....	33
Spine.....	15
Spleen.....	2
Stomach.....	67
Thigh.....	19
Treatments.....	30
Wrist.....	24
Total.....	674

CLASSIFICATION OF PLATES USED.

6½ by 8½.....	290
8 by 10.....	566
10 by 12.....	382
14 by 17.....	374
X-ray films, 8 by 10.....	56
Dental films.....	225
Total.....	1,893

TABLE XXII.—SANTO TOMAS HOSPITAL.

PATIENTS TREATED.

Class.	Remain- ing Oct. 1.	Admit- ted.	Died.	Dis- charged.	Remain- ing Dec. 31.
Pay cases.....	22	236	6	223	29
Charity cases.....	504	2,086	211	1,906	473
Total.....	526	2,322	217	2,129	502

Class.	Number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Pay cases.....	305	2	.....	94	209
Charity cases.....	3,473	12	.....	258	3,203
Total.....	3,778	14	.....	352	3,412

Number of days relief furnished patients.....	43,479
Average number of patients constantly sick.....	472
Average number of days treatment for each patient admitted.....	11
Cost of subsistence per patient, per day.....	\$0.42

DISPENSARY REPORT.

Class.	White.	Black.	Total.
Natives treated.....	45	4,759	4,804
Foreigners treated.....	88	1,362	1,450
Total.....	133	6,121	6,254

DISEASES TREATED.

General diseases:	
Malaria.....	140
Smallpox.....	5
Measles.....	1
Diphtheria and croup.....	11
Influenza.....	62
Dysentery.....	9
Leprosy.....	1
Erysipelas.....	4
Other epidemic diseases.....	7
Purulent infection and septicemia.....	20
Tuberculosis of the lungs.....	25
Pott's disease.....	1
Tuberculosis of other organs.....	2
Syphilis.....	88
Soft chancre.....	7
Gonococcus infection.....	181
Cancer and other malignant tumors of the buccal cavity.....	1
Cancer and other malignant tumors of the female genital organs.....	3
Cancer and other malignant tumors of the skin.....	1
Other tumors.....	5
Acute articular rheumatism.....	6
Scurvy.....	1
Anemia, chlorosis.....	8
Alcoholism—acute or chronic.....	26

DISEASES TREATED.—Continued.

Nervous diseases:	
Locomotor ataxia.....	1
Other diseases of the spinal cord.....	2
Other forms of mental alienation.....	15
Epilepsy.....	6
Convulsions of infants.....	1
Hysteria.....	3
Neuralgia and neuritis.....	8
Other diseases of the nervous system.....	5
Other diseases of the eyes and their annexa.....	40
Diseases of the ears.....	4
Circulatory:	
Organic diseases of the heart.....	11
Diseases of the arteries.....	8
Diseases of the veins.....	29
Diseases of the lymphatic system.....	23
Other diseases of the circulatory system.....	3
Respiratory:	
Chronic bronchitis.....	23
Broncho-pneumonia.....	1
Pneumonia.....	10
Pleurisy.....	9
Asthma.....	3
Digestive:	
Diseases of the teeth and gums.....	3
Diseases of the pharynx.....	34
Ulcer of the stomach.....	2
Other diseases of the stomach.....	2
Diarrhea and enteritis.....	3
Diarrhea and enteritis --2 years and over.....	18
Ankylostomiasis.....	129
Intestinal parasites.....	22
Appendicitis and typhlitis.....	27
Hernias, intestinal obstructions.....	37
Diseases of the anus and fecal fistula.....	8
Other diseases of the intestines.....	10
Cirrhosis of the liver.....	1
Other diseases of the liver.....	11
Nonvenereal:	
Acute nephritis.....	5
Bright's disease.....	33
Other diseases of the kidneys and annexa.....	1
Diseases of the bladder.....	4
Diseases of the urethra.....	14
Nonvenereal diseases of the male genital organs.....	22
Uterine hemorrhage.....	4
Uterine tumor.....	5
Metritis.....	5
Other diseases of the uterus.....	32
Cysts and tumors of the ovary.....	3
Salpingitis and other diseases of the female genital organs.....	33
Nonvenereal diseases of the breast.....	4
Puerperal state:	
Normal labor.....	260
Accidents of pregnancy.....	45
Puerperal hemorrhage.....	1
Skin etc:	
Gangrene.....	2
Furuncle.....	1
Acute abscess.....	26
Trichophytosis.....	1
Scabies.....	8
Other diseases of the skin and annexa.....	104
Bones:	
Diseases of the bones.....	4
Diseases of the joints.....	16
Amputations.....	3
Congenital malformation.....	12

DISEASES TREATED—Continued

Early infancy:	
Nursling discharge from hospital without disease.....	250
Lack of care.....	1
Affections, external causes:	
Sensibility.....	5
Venomous bites and stings.....	2
Other acute poisonings.....	5
Burns.....	5
Traumatism by cutting or piercing instruments.....	21
Excessive cold.....	2
Dislocations.....	2
Fractures.....	9
Other external violence.....	21
Ill-defined:	
Diseases not specified or ill-defined.....	8
No disease.....	23
	2,129
Deaths, patients.....	217
Remaining for next month.....	1,432
Total.....	3,778

TABLE XXIII.—COROZAL HOSPITAL—STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS.

COMMITMENTS.

	Male.	Female.
From Canal Zone:		
First admission.....	23	6
Second admission.....	2	
Seventh admission.....	1	
From Panama Government:		
First admission.....	17	10
Third admission.....	1	1
Totals.....	44	17

DISCHARGES.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Antigua.....				1		
Barbados.....				1		
China.....			¹ 1			
Colombia.....	1		3		1	
England.....			¹ 1			
Italy.....			1			
Jamaica.....			1	2		
Japan.....	1					
Martinique.....			1	1		
Panama.....			1			
Peru.....					1	
Porto Rico.....			¹ 2			
United States.....	¹ 2		¹ 7		¹ 2	
Totals.....	4		18	5	4	

¹ Deported to United States; ² deported to China.

DEATHS.

Medical diagnosis.	Mental diagnosis	Male.	Female.
Pulmonary tuberculosis.....	Dementia precox.....	1	1
Tuberculosis of the lungs.....	Imbecility.....	1	
General paresis.....	General paresis.....	1	
Tuberculosis of the lungs.....	Cerebral syphilis.....	2	
Broncho pneumonia.....	Dementia precox.....	1	
Nephritis—Military tuberculosis.....	Imbecility.....	1	
Tuberculosis—peritonitis.....	Psychosis associated with epilepsy.....	1	
Syphilis—arteriosclerosis.....	Toxic psychosis—pellagra.....		1
Pellagra.....	Toxic psychosis—pellagra.....		1
Paresis.....	Tertiary syphilis.....		1
Diffuse nephritis.....	Dementia precox.....		1
Cerebral syphilis.....	Cerebral syphilis.....	1	
Chronic interstitial nephritis.....	Psychosis associated with arteriosclerosis.....	1	
Epilepsy.....	Imbecility, with epilepsy.....		1
Total.....		10	6

TABLE XXIV.—CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

	Pana- ma.	Colon.	Canal Zone.	Non- resident.	Total.
Beriberi.....	2				2
Chickenpox.....	15	4	8		27
Diphtheria.....	10	3	5		18
Dysentery.....	12		2		14
Gonococcus infection.....	68	1	126	3	198
Hookworm disease.....	1				1
Influenza.....	353	2	175		530
Leprosy.....	3		1		4
Malaria.....	22	34	367	156	579
Measles.....	1	3	3		7
Meningitis.....	4	2	4		10
Mumps.....	2		4		6
Pneumonia.....	22	7	28	6	63
Relapsing fever.....		1			1
Smallpox.....	91	1	4		96
Syphilis.....	80		67		147
Tuberculosis.....	107	25	7		139
Typhoid fever.....	3	1	4		8
Whooping cough.....	7	7	9		23

TABLE XXV.—REPORT OF ROUTINE SANITARY WORK PERFORMED IN THE CANAL ZONE AND THE CITIES OF PANAMA AND COLON.

	Canal Zone.	Panama.	Colon. ¹
Linear yards of new ditches constructed.....	1,655		
Linear yards of ditches maintained.....	205,920	784,293	14,950
Acres of vegetation removed.....	933	175	27
Number of garbage cans emptied.....	14,045		261,089
Cubic yards of garbage removed.....			28,688
Square yards of streets cleaned.....		1,800,000	25,288,026
Square yards of alleys cleaned.....			1,963,170
Pit closets inspected during quarter.....	721		
Closets disinfected during quarter.....	660		
Number of water containers treated.....	31	15,961	259,612
Number of mosquito breeding places destroyed.....	80	886	359
Mosquitoes destroyed in dwellings:			
Anopheles.....	8,591		6,230
Stegomyia.....	28		
Culex.....	18,772		4,772
Number of fly-breeding places destroyed.....	6	569	148
Number of rats destroyed.....	5,278	2,284	1,574
Private properties cleaned.....		345	3,411
Number of notices served to abate nuisances.....	84	1,198	2,662
Convictions for violation of sanitary code.....		178	
Houses disinfected or fumigated.....	214	116	
Square yards of pools oiled.....	1,310	37,655	511,653
Buildings inspected.....	1,348	23,392	30,418
Buildings, construction and repair:			
Plans for new buildings approved.....		1	6
Permits issued to repair old buildings.....		144	152
Buildings condemned.....		1	6
Food inspection:			
Dairies, milk venders, etc.....		238	21
Bakeries, ice cream parlors, etc.....		149	306
Bottling works, saloons, etc.....		44	299
Hotels, clubs, restaurants.....	39	451	713
Markets, fruit stands, miscellaneous.....	371		2,614
Material used during quarter:			
Crude oil..... gallons.....	10,765	5,186	257,080
Larvacide..... gallons.....	578	608	483
Kerosene..... gallons.....	767	463	
Hide and skin disinfections and cattle and swine in-			
spections:			
Number of hides disinfected.....		7,418	
Number of skins disinfected.....		6,300	
Cattle and hogs inspected for Zone quarantine:			
Cattle (private owners).....		1,889	
Hogs (private owners).....		597	

¹ Includes Cristobal and Mount Hope, Canal Zone.

TABLE XXVI.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL FOR THE THREE MONTHS' PERIOD ENDING DECEMBER 31, 1918.

Vessels inspected and passed.....	680
Vessels held in quarantine.....	23
Vessels inspected and transiting Canal in quarantine.....	32
Vessels passed on medical officer's certificate.....	12
Total vessels entered.....	747
Supplemental inspections of detained vessels.....	12
Supplemental inspections of vessels at docks.....	275
Vessels fumigated on arrival.....	47
Vessels fumigated prior to departure.....	5
Bills of health issued.....	374
Bills of health viséed.....	487
Crew inspected on arrival.....	33,788
Passengers inspected on arrival.....	10,162
Total persons inspected on arrival.....	43,950
Crew passed on medical officer's certificate.....	10,202
Supplemental inspection of passengers and crew.....	3,444
Persons vaccinated in port on arrival.....	620
Persons vaccinated in port of departure or en route.....	1,874
Total persons vaccinated.....	2,494
Persons detained at quarantine stations to complete period of incubation of yellow fever and bubonic plague.....	568
Persons held in quarantine on board vessels.....	3,784
Total persons detained in quarantine.....	4,352
Passengers arriving:	
First class.....	1,641
Other than first class.....	1,302
Total arriving.....	2,943
Passengers arriving in small launches and sailing craft (from coast towns).....	393
Passengers in transit passing through the Canal.....	6,962
Passengers in transit for Pacific ports not passing through Canal on arriving vessels.....	454
Passengers in transit for Atlantic ports.....	642
Number of immigrants rejected and deported.....	182

BOCAS DEL TORO.

Vessels inspected and passed.....	77
Crew inspected and passed.....	1,407
Passengers inspected and passed.....	605
Passengers, transit, inspected and passed.....	439
Persons vaccinated on coastwise vessels.....	19

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