

REPORT
OF THE
DEPARTMENT OF HEALTH
OF THE
PANAMA CANAL
FOR THE
MONTH OF NOVEMBER, 1916

D. C. HOWARD

Lieut. Colonel, Medical Corps, United States Army
Chief Health Officer, Balboa Heights, Canal Zone

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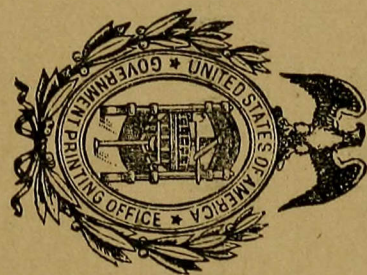
WASHINGTON
1917

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LETTER OF TRANSMITTAL.

THE PANAMA CANAL,
CANAL ZONE HEALTH DEPARTMENT,
Balboa Heights, Canal Zone, December 9, 1916.

Lieut. Col. CHESTER HARDING,
*Acting Governor, The Panama Canal,
Balboa Heights, Canal Zone.*

SIR: I have the honor to submit the following report of the operations of the department of health for the month of November, 1916.
Very respectfully,

D. C. HOWARD.
Chief Health Officer.

GENERAL REMARKS.

The general health of employees and nonemployees in the Canal Zone and terminal cities has continued good.

A case of smallpox was admitted to Ancon Hospital on November 2, 1916, from Panama City, in a West Indian sailor who was discharged from the British steamship *Coya* on October 18, 1916. The disease was contracted before his arrival on the Isthmus. This ship had called at Peruvian ports on her trip north, and took an original bill of health at Salaverry, Peru; she sailed from that port on October 11, 1916; called at Eten, Peru, and sailed on October 13, 1916. The patient was isolated in Ancon Hospital and is now convalescent. All known contacts were immediately vaccinated and isolated, and other usual precautions taken. The adult contacts had been protected by vaccination, but there were three young children contacts who had never been vaccinated. The first vaccinations were unsuccessful. On November 21 the second case appeared in a child "contact"—daughter of the first patient admitted. On November 23, a third case appeared in an infant "contact," living in an adjoining room of the same house. No further cases have developed. Of the three cases treated in Ancon Hospital, the first two are now convalescent, and the third (6 weeks old infant) died November 30. Previous to the above the last case of this disease brought to the Isthmus was in February, 1915; the last case originating on the Isthmus was in 1907.

The annual physical examination of gold employees was commenced during the month. This year these examinations have been made by a permanent personnel of physicians, clerks, and attendants detailed for that purpose, and proceeding from one station to another as the work requires. Formerly the examinations were made by the district physicians in connection with their

regular duties. The present plan is resulting in more uniformity in the examination and is being accomplished more rapidly and with less inconvenience to the employees concerned.

No diseases of a quarantinable nature, other than the smallpox cases mentioned above, originated on or were brought to the Isthmus during the month.

VITAL STATISTICS.

The following statistics are based upon the number of names appearing on the rolls for the preceding month, which was 35,031.

The total number of admissions to hospitals and quarters was 922, a rate of 315.83,¹ as compared with 282.76 for the preceding month, and 311.01 for the corresponding month of last year.

The total number of deaths from all causes was 13; of these, 9 were from disease, giving a death rate of 3.08, as compared with 5.77 for the preceding month and 5.96 for the corresponding month of last year.

The constantly noneffective rate was 8, as compared with 8.16 for the preceding month and 9.79 for the corresponding period of last year.

The total admission rate for malaria, hospitals and quarters, was 5.48, as compared with 13.71 for the preceding month, and 22.09 for the corresponding month of last year. The constantly noneffective rate for malaria was 0.24, as compared with 0.50 for last month and 0.70 for the month of November last year.

The diseases causing the highest admission rates to hospital, in the order of their numerical importance, were: (1) Venereal diseases, (2) malaria, (3) tuberculosis, (4) bronchitis, and (5) pleurisy. These five diseases caused 22 per cent of all admissions to hospitals. Eight and one-half per cent of all admissions to hospitals were caused by venereal diseases; malaria causing 4 per cent of all admissions.

There were two admissions for typhoid fever during the month, giving an admission rate of 0.68, as compared with 0.72 for the preceding month. There were no admissions for typhoid during November, 1915.

EFFECTS OF RACE.

The admission rate to hospital, and the death rate from disease, for black employees, were 65.68 and 3.56, respectively, as compared with 66.82 and 5.84 for the preceding month and 133.23 and 6.88 for the corresponding month of last year. For white employees the admission rate to hospital and the death rate from disease were 250.05 and 0.00, respectively, as compared with 359.63 and 5.29 for the preceding month, and 365.77 and 0.00 for the corresponding month of last year.

The constantly noneffective rates were 6.53 for blacks and 17.43 for whites.

The admission rate to hospital and quarters for malaria was 5.14 for blacks and 7.65 for whites, as compared with a rate of 7.93 for

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

blacks and 47.40 for whites for last month, and 17.41 for blacks and 52.25 for whites for the corresponding month of last year.

There was one death among American employees during the month, giving a rate of 2.84, as compared with 2.85 for last month, and 5.82 for the month of November of last year.

DEPORTATIONS.

There were seven deportations accomplished during the month, five employees (for injury 1, for disease 4) and two nonemployees.

CANAL ZONE.

EMPLOYEES AND NONEMPLOYEES.

The population of the Canal Zone, according to the last police census taken in June, 1916, is 31,048. This includes employees, nonemployees, and military garrisons residing or stationed within the Canal Zone. Among this population there were 24 deaths during the month of November, 20 of which were from disease, giving a death rate of 7.73, as compared with 9.66 for the preceding month and 11.14 for the corresponding month of last year.

Of the total deaths from disease the percentage under 5 years of age was 20, as compared with 32 for last month.

There were 54 births reported, giving a rate of 20.87; of these 14 were white and 40 colored.

There were three deaths of children under 1 year of age, all colored, giving an infant mortality rate, based upon the number of births reported for the month, of 0 for white and 75 for colored children, with a general average of 56.

The percentage of stillbirths to total births was 7.

PANAMA CITY.

EMPLOYEES AND NONEMPLOYEES.

The population of the city is 60,778, among whom there were 182 deaths during the month of November; of these 176 deaths were from disease, giving a rate of 34.75, as compared with 29.62 for the preceding month and 27.63 for the corresponding month of last year.

Of the total deaths from disease the percentage under 5 years of age was 52, as against 47 for last month.

The principal causes of death as compared with last month were as follows:

	October.	November.
Tuberculosis (various organs).....	31	28
Diarrhea and enteritis (under 2 years).....	26	24
Broncho-pneumonia.....	16	17

There were 220 births reported, giving a rate of 43.44. There were 75 deaths under 1 year of age, giving an infant mortality rate based on the number of births reported for the month of 345.

The percentage of stillbirths to total births was 8.

COLON.

EMPLOYEES AND NONEMPLOYEES.

The population of the city is 24,693, among whom there were 53 deaths during the month of November; of these 52 deaths were from disease, giving a rate of 25.27, as compared with 30.13 for the preceding month and 20.87 for the corresponding month of last year.

Of the total deaths from disease the percentage under 5 years of age was 43, as compared with 43 for the preceding month.

The principal causes of death as compared with last month were as follows:

	October.	November.
Broncho-pneumonia.....	12	7
Chronic nephritis.....	7	7
Tuberculosis (various organs).....	10	5

There were 73 births reported, giving a rate of 35.48. There were 16 deaths under 1 year of age, giving an infant mortality rate, based on the number of births reported for the month, of 219.

The percentage of stillbirths to total births was 6.

DIVISION OF HOSPITALS.

ANCON HOSPITAL.

The average number of patients constantly in the hospital proper during the month was 423, as compared with 416 for the preceding month, and 458 for the corresponding period of last year. The average number of days treatment per employee was 19.98. The daily per capita cost per patient for October was \$1.64 gross.

Thirty-six cases of malaria were admitted against 52 for October, 62 for September, 124 for August, and 143 for July. Seven deaths occurred from tuberculosis against 5 in October and 13 in September.

Detailed statistics are shown in Table XIII.

Board of health laboratory.—The usual routine work has been continued during the month. Two deaths in cattle from the Corozal farm were found to be due to Texas cattle fever, as a result of laboratory examinations. This is the first record of this disease on the Isthmus, so far as known.

Corozal Hospital.—The average number of insane patients constantly cared for during November was 315, as compared with 310 for last month and 254 for the corresponding month of last year.

During the month there were 21 admissions, 7 deaths, 11 discharges, and no transfers. The daily per capita cost for October was \$0.49 gross.

Detailed statistics are shown in Table XIII.

Chronic ward.—During the month there were 10 admissions, no deaths, and 3 discharges. The average number of patients constantly cared for was 21.77. The daily per capita cost for October was \$0.36.

COLON HOSPITAL.

The average number of patients constantly in hospital was 43, as compared with 38 for the preceding month and 23 for the corresponding month of last year. The average number of days' treatment per employee was 9.25. The daily per capita cost per patient for October was \$2.27 gross.

Detailed statistics are shown in Table XIV.

PALO SECO LEPER ASYLUM.

The average number of patients constantly cared for during the month was 68.56, as compared with 67.67 for the preceding month and 57.40 for the corresponding month of last year. During November there was one admission and no deaths or discharges. The daily per capita cost per patient for October was \$0.75 gross.

Detailed statistics are shown in Table XV.

SANTO TOMAS HOSPITAL.

One thousand three hundred and seventy-one patients were treated in the hospital during the month of November as compared with 1,414 for the preceding month and 1,388 for the corresponding month last year. The daily average number of patients treated was 450, as compared with 440 for last month and 453 for the month of November last year. The total number of days treatment was 13,340 as compared with 13,657 for last month.

The number of deaths was 97, with tuberculosis of the lungs, diarrhea, and enteritis (under 2 years), and congenital debility the chief causes in the order named.

Twelve cases of dysentery were treated during the month, with no deaths; 10 cases of pneumonia, with 1 death. There were no admissions for typhoid fever during the month.

Detailed statistics are shown in Table XVI.

DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Gatun with an average weekly percentage of 0.11. There were no admissions for malaria among the employees of the Culebra-Empire district during the month.

Detailed statistics are shown in Table IX.

ZONE SANITATION.

CANAL.

The energies of this division are directed chiefly toward the control of malarial fever, which has been responsible for the non-effective rate among employees to a greater extent than any other disease. The work has been so far successful that—as noted elsewhere in this report—there are now occasional months during which malaria takes second or third place in the list of causes for admissions to sick report. The extermination of malarial fever in a given district is best accomplished by the elimination of mosquitoes, and this is effected in a large measure by destruction of mosquito larvæ. During November the residence districts have been almost free from mosquitoes, due to the fact that the usual measures employed by this division were supplemented by the very heavy rains, which flush out the streams, pools, and various other breeding places, destroying the larvæ. A few mosquitoes are present at all times in all districts and the search for their breeding places by the district inspectors is based on the reports from the board of health laboratory as to the kinds of mosquitoes present. These reports indicate that we have present certain kinds, the larvæ of which are not destroyed by oiling the surface of the breeding places (thus preventing them from obtaining oxygen) and which are not vulnerable to any of our present modes of attack.

A recent and very comprehensive publication on mosquitoes (The Mosquitoes of North and Central America and the West Indies, by Howard, Dyar & Knab), referring to the habits of the larvæ, says, "Some, indeed, never rise to the surface and obtain the necessary oxygen from the water by osmosis, or in the case of *Mansonia*, from the vascular roots of aquatic plants." Fortunately, these species which are not reached by the usual methods directed toward the elimination of mosquitoes, have not been incriminated as carriers of disease, but they are annoying and, for this department, they complicate the problem of the absolute elimination of the mosquito.

There have been no epidemics on the Zone during the month, but sporadic cases of communicable diseases have been reported as follows:

Chickenpox.....	5	Measles.....	12
Diarrhea.....	2	Tuberculosis (various organs).....	7
Diphtheria.....	4	Typhoid fever.....	1
Malarial fever.....	26		

PANAMA.

For the month Santo Tomas Hospital reported 16 admissions for malaria and Ancon Hospital 6 admissions, making a total of 22 cases. Compared with the corresponding month of 1915 there were 20 cases chargeable to Panama and in November, 1914, 167 cases.

There have been 4 cases of diphtheria reported during the month with 1 death. The same routine was employed as heretofore, including hospitalization of cases, the taking of throat cultures from all contacts, their restriction for 10 days following exposure, etc.

Two cases of typhoid fever were reported during the month with no deaths. Both cases were in West Indians residing in the section of the city known as Guachapali, but no connection could be traced between them. In both cases the source of infection was undetermined.

A bureau of child hygiene was inaugurated under the direction of this office during the month. One registered nurse was assigned to the work and Santo Tomas Hospital was made a central headquarters for the time being. The plan is to take a certain number of infants from birth and by instruction of the mothers as to proper feeding, bathing, clothing, and general care trace them for an indeterminate period. Visits are made to homes and one afternoon per week an opportunity for consulting a hospital physician is afforded. The goal sought is the lowering of the infant mortality rate in this city which has for years been excessive.

The following is taken from the report of the registered nurse in charge:

From the 11th, when the work commenced, to the end of the month 61 babies' histories were taken and appropriate instruction covering feeding, care of mouth, eyes, and general hygiene was given to the mothers who in the main evinced considerable interest. The first four days the attending nurse worked exclusively at the station (Santo Tomas Hospital) but beginning on November 15 she began visits in the city in the follow-up campaign and from then until November 30, 37 babies were visited in their homes. On the weekly day for physician's inspection, 17 babies were brought in; 2 it was deemed necessary to treat. Two infants who were being artificially milk fed were returned to the breast. Although in its beginning, the future outlook in this work is encouraging.

The following communicable diseases were reported during the month:

Beri-beri.....	3	Smallpox.....	3
Chickenpox.....	4	Syphilis.....	7
Diphtheria.....	4	Scarlet fever.....	1
Dysentery.....	2	Typhoid.....	2
Malaria.....	22	Tuberculosis.....	28
Measles.....	9	Tetanus.....	2
Meningitis.....	3	Whooping cough.....	3
Pellagra.....	1		

COLON.

The activities of the health department have been along the usual lines during the month. Good progress has been made in the permanent antimosquito work that has been under way in the Cristobal and Mount Hope districts. Several large swamp areas have been filled and the drainage facilities improved by laying tile and cementing ditches.

The following notifiable diseases were reported during the month:

Chickenpox.....	1	Measles.....	1
Malaria.....	10	Pneumonia.....	1
Diphtheria.....	2	Whooping cough.....	3
Tuberculosis.....	5	Yaws.....	1

QUARANTINE SERVICE.

The quarantine transactions during the month on the Atlantic side were conducted without special incident, and no special changes have been noted in conditions on the Atlantic side in South America and West Indian Islands. No further reports of yellow fever at Barbados have been received since the report of six cases occurring in September.

Quarantine conditions along the west coast of South America show little change except in Guayaquil, Ecuador, where the usual seasonal increase in both the yellow fever and plague is now manifesting itself. No cases of yellow fever have been reported at Buenaventura, Colombia, for some months, and the reports of the inspectors on the steamship *Jamaica* and the steamship *Balboa* would indicate that no cases actually exist at the present time in this port, although sanitary conditions are such that its reappearance at any time could not be considered as unlooked for. One case of bubonic plague was reported in a white sailor on the steamship *Santa Rita*, the infection in this case evidently having been received in the small port of Caldera, Chile. This man was removed to the Lazareto, in Callao, Peru, where the case terminated fatally. Smallpox is reported as being more than usually prevalent along the coast of Peru and Ecuador.

Supervision has been maintained over the inspection of animals at the abattoir at Cristobal during the month, and condemnations of meat made in accordance with the Federal Meat Inspection regulations. Quarantine inspection of 718 cattle was made, of which 156 were local inspections for shipments across the Panama Railroad. Quarantine inspections at the Cristobal abattoir were made on 1,023 cattle and 2 sheep; the routine procedure of inspection at the abattoir includes the microscopic examination of splenic smears. Anthrax occurred on pastures 59, 56, and 35 during the month of this report. The total number of deaths on these pastures was 13. One animal from pasture lower 59 died in the car at the abattoir. No deaths have occurred since the 22d of the month. The outbreak of anthrax referred to, occurring between November 11 and 22, was apparently caused by overcrowding of pastures 35, 56, and 59. This situation has been relieved.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE ZONE.

ABSOLUTE NUMBERS.

	Num- ber of em- ploy- ees.	Admissions to hospitals.			Deaths.			Noneffec- tive from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly non- effective.
<i>November, 1916.</i>									
White.....	4,703	117	98	19	1	0	1	2,459	81.98
Colored.....	30,328	259	166	93	12	9	3	5,945	198.15
Total.....	35,031	376	264	112	13	9	4	8,404	280.13
<i>October, 1916.</i>									
White.....	4,538	151	136	15	4	2	2	2,125	68.55
Colored.....	28,734	245	160	85	15	14	1	6,292	202.96
Total.....	33,272	396	296	100	19	16	3	8,417	271.51
<i>November, 1915.</i>									
White.....	4,593	140	119	21	2	0	2	2,362	78.72
Colored.....	29,631	329	234	95	21	17	4	7,692	256.39
Total.....	34,224	469	353	116	23	17	6	10,054	335.11

PROPORTIONATE NUMBERS.¹

<i>November, 1916.</i>									
White.....	4,703	298.53	250.05	48.48	2.55	.....	2.55	.....	17.43
Colored.....	30,328	102.48	65.68	36.79	4.75	3.56	1.19	.....	6.53
Total.....	35,031	128.80	90.43	38.37	4.45	3.08	1.37	.....	8.00
<i>October, 1916.</i>									
White.....	4,538	399.29	359.63	39.66	10.58	5.29	5.29	.....	15.10
Colored.....	28,734	102.32	66.82	35.50	6.26	5.84	.42	.....	7.06
Total.....	33,272	142.82	106.76	36.06	6.85	5.77	1.08	.....	8.16
<i>November, 1915.</i>									
White.....	4,593	365.77	310.91	54.86	5.23	.....	5.23	.....	17.14
Colored.....	29,631	133.23	94.76	38.47	8.50	6.88	1.62	.....	8.65
Total.....	34,224	164.44	123.77	40.67	8.06	5.96	2.10	.....	9.79

¹ Annual average per 1,000.

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

Place.	Popula- tion.	Deaths.			Annual average per 1,000.		
		Total.	Dis- ease.	External causes.	Total.	Dis- ease.	External causes.
<i>November, 1916.</i>							
Panama.....	60,778.	182	176	6	35.93	34.75	1.18
Colon.....	24,693	53	52	1	25.76	25.27	.49
Canal Zone.....	31,048	24	20	4	9.28	7.73	1.54
Total.....	116,519	259	248	11	26.67	25.54	1.13
<i>October, 1916.</i>							
Panama.....	60,778	156	150	6	30.80	29.62	1.18
Colon.....	24,693	64	62	2	31.10	30.13	.97
Canal Zone.....	31,048	28	25	3	10.82	9.66	1.62
Total.....	116,519	248	237	11	25.54	24.41	1.13
<i>November, 1915.</i>							
Panama.....	60,373	146	139	7	29.02	27.63	1.39
Colon.....	29,331	53	51	2	21.68	20.87	.81
Canal Zone.....	31,219	34	29	5	13.06	11.14	1.92
Total.....	120,923	233	219	14	23.12	21.73	1.39

TABLE II.—DEATHS BY AGE, COLOR, AND SEX.

	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	6	3	9	50	33	83	1	....	1	57	36	93
1 to 4 years.....	1	1	2	13	11	24	1	1	2	15	13	28
5 to 10 years.....	....	1	1	3	2	5	....	....	....	3	3	6
10 to 20 years.....	....	1	1	2	5	7	....	....	....	2	6	8
21 to 30 years.....	5	3	8	17	13	30	1	....	1	23	16	39
31 to 40 years.....	3	....	3	18	13	31	1	....	1	22	13	35
41 to 50 years.....	1	1	2	15	4	19	1	....	1	17	5	22
51 to 60 years.....	3	1	4	4	6	10	1	....	1	8	7	15
61 to 70 years.....	2	....	2	1	4	5	....	....	....	3	4	7
71 to 80 years.....	....	....	....	2	....	2	1	....	1	3	....	3
81 to 90 years.....	....	1	1	....	2	2	....	....	....	....	3	3
Total.....	21	12	33	125	93	218	7	1	8	153	106	259

TABLE III.—DEATHS BY NATIONALITY.

	Employees.		Nonemployees.		Totals.		Grand total.
	Male.	Female.	Male.	Female.	Male.	Female.	
Antilles.....			1		1		1
Antigua.....			2	2	2	2	4
Barbados.....	6		19	11	25	11	36
China.....			7	1	7	1	8
Colombia.....			9	13	9	13	22
Costa Rica.....				1		1	1
Demarara.....				3		3	3
Ecuador.....			1		1		1
England.....			1	1	1	1	2
Greece.....				1		1	1
Grenada.....				1		1	1
Guadeloupe.....			1		1		1
Hayti.....	1				1		1
Holland.....			1		1		1
Italy.....			3	1	3	1	4
Jamaica.....	3		38	28	41	28	69
Martinique.....	1		3	2	4	2	6
Montserrat.....			1		1		1
Nicaragua.....				1		1	1
Portugal.....			1		1		1
Panama.....			33	35	33	35	68
St. Kitts.....			1		1		1
St. Lucia.....			2	1	2	1	3
Spain.....			6	2	6	2	8
Russia.....			1		1		1
Trinidad.....	1		1	1	2	1	3
United States...	1		4		5		5
West Indies.....			1		1		1
Unknown.....				1		1	1
Peru.....			3		3		3
Total.....	13		140	106	153	106	259

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,221): External causes.....	1	2.84
White women and children from the United States (3,918)...		
White employees and their families from the United States (8,139): External causes.....	1	1.47
Total number of Americans on the Canal Zone, including soldiers and their families (17,203):		
Disease.....	1	.70
External causes.....	2	1.39
Total.....	3	2.09

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD CO.

	White.	Colored.	Total.
<i>Disease.</i>			
Tuberculosis of the lungs.....		2	2
Disseminated tuberculosis.....		1	1
Lobar pneumonia.....		1	1
Organic diseases of the heart.....		2	2
Chronic nephritis.....		1	1
Pyæmia, streptococcic.....		1	1
Rupture of aortic aneurysm into pericardium.....		1	1
<i>External causes.</i>			
Drowning, accidental.....		2	2
Accidental traumatism.....		1	1
Suicide—hemorrhage from incised wound.....	1		1
Total.....	1	12	13

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE.

	Panama.		Colon.		Canal Zone.		Totals.		Grand total.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
<i>General diseases.</i>									
Malarial fever, estivo-autumnal.....						1		1	1
Smallpox.....		1						1	1
Whooping cough.....		1						1	1
Diphtheria and croup.....		1						1	1
Dysentery.....	1						1		1
Purulent infection and septicæmia.....	1						1		1
Pyæmia.....			1				1		1
Septicæmia.....					1		1		1
Tetanus.....	1						1		1
Pellagra.....		2		4	1		1	6	7
Beriberi.....	1	1					1	1	2
Tuberculosis of the lungs.....	13	11	3	2		1	16	14	30
Acute miliary tuberculosis.....	1				1		2		2
Tuberculosis meningitis.....	2						2		2
Disseminated tuberculosis.....		1			2		2	1	3
Syphilis, tertiary.....	1						1		1
Syphilis, hereditary.....	5	3					5	3	8
Cancer and other malignant tumors of stomach and liver.....			1				1		1
Cancer and other malignant tumors of the peritoneum, intestines, rectum.....			1				1		1
Cancer and other malignant tumors of the female genital organs.....		3						3	3
Cancer and other malignant tumors of the breast.....		1						1	1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

	Pana- ma.		Colon.		Canal Zone.		Totals.		Grand total.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
<i>General diseases—Continued.</i>									
Cancer and other malignant tumors of other organs and of organs not speci- fied.....	1	.....	1	.....	.....	.....	2	.....	2
Diabetes.....	.....	1	.....	.....	.....	.....	.....	1	1
Other general diseases.....	1	.....	.....	.....	.....	.....	1	.....	1
<i>Diseases of the nervous system and of the organs of special sense.</i>									
Encephalitis.....	.....	.....	.....	.....	1	.....	1	.....	1
Simple meningitis.....	1	.....	.....	.....	.....	.....	1	.....	1
Locomotor ataxia.....	1	.....	.....	.....	.....	.....	1	.....	1
Other diseases of the spinal cord.....	.....	.....	.....	.....	1	.....	1	.....	1
Cerebral hemorrhage, apoplexy.....	1	1	.....	.....	.....	.....	1	1	2
Epilepsy.....	1	1	.....	.....	.....	.....	1	1	2
Convulsions of infants (under 5 years).....	.....	.....	1	.....	.....	1	1	1	2
<i>Diseases of the circulatory system.</i>									
Pericarditis.....	1	1	.....	.....	.....	.....	1	1	2
Acute endocarditis.....	1	.....	.....	.....	.....	.....	1	.....	1
Organic diseases of the heart.....	3	3	1	2	3	.....	7	5	12
Diseases of the arteries, atheroma, aneu- rism, etc.....	1	.....	.....	.....	.....	.....	1	.....	1
Arteriosclerosis.....	3	3	1	.....	.....	.....	4	3	7
<i>Diseases of the respiratory system.</i>									
Acute bronchitis.....	2	2	3	2	.....	.....	5	4	9
Chronic bronchitis.....	.....	.....	2	2	.....	.....	2	2	4
Broncho-pneumonia.....	7	10	2	5	1	.....	10	15	25
Lobar pneumonia.....	3	4	3	.....	.....	.....	6	4	10
Other diseases of the respiratory system (tuberculosis excepted).....	1	.....	.....	.....	.....	.....	1	.....	1
<i>Diseases of the digestive system.</i>									
Acute gastritis.....	1	.....	.....	.....	.....	.....	1	.....	1
Diarrhea and enteritis (under 2 years)...	16	8	2	2	.....	.....	18	10	28
Colitis.....	2	.....	.....	.....	.....	.....	2	.....	2
Appendicitis and typhlitis.....	.....	1	.....	.....	.....	.....	.....	1	1
Hernia, intestinal obstructions.....	.....	1	1	.....	.....	.....	1	1	2
Intestinal obstruction.....	.....	1	.....	.....	.....	.....	.....	1	1
Simple peritonitis (nonpuerperal).....	1	.....	.....	.....	.....	.....	1	.....	1
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>									
Acute nephritis.....	5	1	.....	1	.....	.....	5	2	7
Chronic nephritis (Bright's disease).....	7	3	5	2	2	.....	14	5	19
Pyelo-nephrosis.....	.....	.....	.....	.....	.....	1	.....	1	1

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES AND NONEMPLOYEES) AND MILITARY AND PLACES WHERE CHARGEABLE—Continued.

	Pana- ma.		Colon.		Canal Zone.		Totals.		Grand total.
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
<i>The puerperal state.</i>									
Puerperal hemorrhage.....		2						2	2
Other accidents of labor.....		1						1	1
Puerperal septicemia.....						2		2	2
Eclampsia.....		1		1				2	2
<i>Diseases of the skin and of the cellular tissue.</i>									
Gangrene.....		1						1	1
<i>Malformations.</i>									
Congenital malformations (stillbirth not included).....	1						1		1
<i>Diseases of early infancy.</i>									
Premature birth.....	5						5		5
Congenital debility.....	2						2		2
Malnutrition.....	5	3			1		6	3	9
Other causes peculiar to early infancy.....	1	1					1	1	2
Lack of care.....			1				1		1
<i>Affections produced by external causes.</i>									
Suicide by firearms.....	1						1		1
Suicide by cutting or piercing instruments.....					1		1		1
Conflagration.....		1						1	1
Accidental drowning.....	2				3		5		5
Traumatism by fall.....			1				1		1
Railroad traumatism.....	1						1		1
Homicide by firearms.....		1						1	1
<i>Ill-defined diseases.</i>									
Infections of undetermined origin.....	1						1		1
Total.....	105	77	30	23	18	6	153	106	259
Stillbirths.....	12	5		4	1	4	13	13	26
Grand total.....	117	82	30	27	19	10	166	119	285

DEATHS OF NONRESIDENTS.

Residence.	Nationality.	Color.	Sex.	Age.	Diagnosis.
Interior of Panama.	Martinique..	Black...	Male....	44	Pulmonary tuber- culosis.
Do.....	Panama.....	do.....	do.....	22	Broncho-pneumo- nia.
Do.....	Barbados...	do.....	do.....	30	Accidental drown- ing.
Bocas del Toro, R. P.	Nicaragua...	do.....	do.....	75	Chronic myocardi- tis.
Porto Bello, R. P..	Panama.....	do.....	do.....	44	Broncho-pneumo- nia.
S. S. Quilque.....	Chile.....	White...	do.....	20	Lobar pneumonia.
Interior of Panama.	Mexico.....	Black...	do.....	40	Pulmonary tuber- culosis.
U. S. S. Charleston.	U n i t e d States.	White...	do.....	45	Railroad trauma- tism.
Interior of Panama.	Jamaica.....	Black...	do.....	55	Arteriosclerosis.
Bocas del Toro.....	Panama.....	do.....	Female.	29	Pulmonary tuber- culosis.
Interior of Panama.	do.....	do.....	Male....	26	Chronic myocardi- tis.
Mexico.....	China.....	Yellow..	do.....	31	Estivoautumnal malaria.
Interior of Panama.	Panama.....	Black...	do.....	39	Pulmonary tuber- culosis.
Aguadulce, R. P...	Colombia.....	do.....	do.....	28	Do.
Santa Maria, R. P..	Panama.....	do.....	Female.	29	Chronic nephritis.

OF THE PANAMA CANAL FOR NOVEMBER, 1916—Continued.

Nonemployees.										Nonresidents.								Total admissions.	Total deaths.
Discharges.					Deaths.					Discharges.				Deaths.					
White.			Black.		White.			Black.		White.		Black.		White.		Black.			
Sold'rs.	Others.				Sold'rs.	Others.				Sold'rs.	Others.			Sold'rs.	Others.				
M.	M.	F.	M.	F.	M.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
.....		1	3	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	6	2
.....						1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	3
.....																		4	.....
.....																		2	.....
.....																			
.....																		1	.....
.....		1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
.....		1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
6	14	18	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....
.....		1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	46	.....
.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....
.....			1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
.....																		1	.....
.....			1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
.....																		1	.....
.....		1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....
8	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....
4		1	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	13	.....
1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11	.....
.....																		10	.....
5	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	11	.....
1			1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	5	.....
2																		3	.....
.....																		1	.....
.....																			
2																		2	.....
.....			2	4	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	10	4
1																		3	.....
.....																		1	.....

TABLE VII.—DISCHARGES AND DEATHS IN HOSPITALS

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.		White.				Black.	
	Ameri- cans.		Euro- peans.				Ameri- cans.		Euro- peans.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<i>Nonvenereal diseases of the genito-urinary system and annexa—Continued.</i>												
Pyelo-nephrosis.....												
Calculi of the urinary pas- sages.....	2											
Diseases of the bladder.....					2							
Cystitis.....												
Diseases of the urethra, uri- nary abscess, etc.....					2							
Stricture of the urethra, nonvenereal.....	1				1							
Nonvenereal diseases of the male genital organs.....	1											
Hydrocele.....					1							
Uterine tumor (noncancer- ous).....												
Other diseases of the uterus.....						1						
Metritis.....												
Cysts and other tumors of the ovary.....												
Salpingitis and other dis- eases of the female genital organs.....												
Nonpuerperal diseases of the breast (cancer ex- cepted).....												
<i>The puerperal state.</i>												
Normal labor.....												
Accidents of pregnancy.....												
Abortion.....												
Other accidents of labor.....												
Puerperal septicemia.....												
Puerperal diseases of the breast.....												
<i>Diseases of the skin and of the cellular tissue.</i>												
Furuncle.....	2											
Acute abscess.....			1		1							
Phlegmon and cellulitis.....	1		1		6							
Dhobie itch.....			1									
Ulcer of skin.....					4							
Ingrowing nail.....												
Other diseases of the skin and annexa.....			2		1							

OF THE PANAMA CANAL FOR NOVEMBER, 1916—Continued.

[illegible]

TABLE VII.—DISCHARGES AND DEATHS IN HOSPITALS

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.		White.				Black.	
	Ameri- cans.		Euro- peans.				Ameri- cans.		Euro- peans.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<i>Affections produced by ex- ternal causes—Contd.</i>												
Electricity (lightning ex- cepted).....	1	.....										
Fractures (cause not speci- fied).....					4	.....						
Dislocations.....	1	.....										
Sprains.....					3	.....						
Other external violence.....	3	.....	4	.....	31	.....						
<i>Ill-defined diseases.</i>												
Infections of undetermined origin.....					2	.....						
No disease.....					1	.....						
Grand total.....	78	3	29	.....	234	3	.....	.....	.....	.....	7	.....

OF THE PANAMA CANAL FOR NOVEMBER, 1916—Continued.

Nonemployees.										Nonresidents.								Total admissions.	Total deaths.
Discharges.					Deaths.					Discharges.				Deaths.					
White.			Black.		White.			Black.		White.		Black.		White.		Black.			
Sol-d'rs.	Others.				Sol-d'rs.	Others.				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.		
																		1	...
3	2	...	1	1	...	...												11	...
																		1	...
2	1	...	2							1								4	...
																		43	...
2	1	8	2	2						6								6	...
			1	3														22	...
171	63	97	59	99	2	3	3	15	7	22	3	...	1	1	...	...	...	862	38

TABLE VIII.—CONSOLIDATED

[A=White Americans; F=

	Remaining Nov. 1.			Admitted.			Died.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.
ANCON HOSPITAL.									
Panama Canal employees.....	22	11	105	59	18	151	.....	.....	3
Panama R. R. employees.....	7	3	45	6	4	44	.....	.....	3
Other pay patients.....	112	19	53	247	33	114	2	2	8
Charity patients.....	8	1	35	13	5	37	.....	.....	8
Total.....	149	34	238	325	60	346	2	2	22
<i>Corozal Hospital (insane).</i>									
Panama Canal employees.....	.....	.....	6	.....	.....	.....	.....	.....	.....
Panama R. R. employees.....	.....	.....	2	.....	.....	.....	.....	.....	.....
Panama pay patients.....	2	32	188	.....	4	8	.....	1	4
Other pay patients.....	5	4	3	4	.....	.....	.....	.....	.....
Charity patients.....	3	9	60	.....	1	4	.....	.....	1
Total.....	10	45	259	4	5	12	.....	1	5
Grand Total.....	159	79	497	329	65	358	2	3	27
<i>Corozal farm.</i>									
Panama Canal employees.....	.....	10	52	.....	.....	6	.....	.....	.....
<i>Chronic ward.</i>									
Charity patients.....	.....	.....	17	.....	.....	10	.....	.....	.....
COLON HOSPITAL.									
Panama Canal employees.....	4	3	12	12	2	27	.....	.....	.....
Panama R. R. employees.....	5	.....	9	9	7	37	.....	.....	1
Panama pay patients.....	.....	1	.....	.....	1	8	.....	1	1
Other pay patients.....	7	4	1	17	21	5	.....	3	.....
Charity patients.....	.....	.....	.....	5	.....	4	.....	.....	.....
Total.....	16	8	22	43	31	81	.....	4	2
PALO SECO LEPER ASYLUM.									
Panama pay patients.....	.....	2	38	.....	.....	1	.....	.....	1
Charity patients.....	.....	2	24	.....	.....	.....	.....	.....	.....
Total.....	.....	4	62	.....	.....	1	.....	.....	1
GRAND TOTALS.									
Panama Canal employees.....	26	24	175	71	20	184	.....	.....	3
Panama R. R. employees.....	12	3	56	15	11	81	.....	.....	4
Panama pay patients.....	2	35	226	.....	5	17	.....	2	6
Other pay patients.....	124	27	57	268	54	119	2	5	8
Charity patients.....	11	12	136	18	6	55	.....	.....	9
Total.....	175	101	650	372	96	456	2	7	30

HOSPITAL REPORT.

White foreign; B=Blacks.]

Discharged.			Transferred.			Remaining Nov. 30.			Average number constantly sick.			
A.	F.	B.	A.	F.	B.	A.	F.	B.	American.	Foreign.	Black.	Total.
56	19	140	....	....	....	25	10	113	24.33	13.13	112.87	150.23
6	4	42	....	....	1	7	3	43	6.20	2.97	38.53	47.70
269	27	93	4	....	1	84	23	65	103.80	23.17	58.03	185.00
13	3	28	....	1	10	8	2	26	7.37	1.16	31.24	39.77
344	53	303	4	1	12	124	38	247	141.70	40.43	240.67	422.80
....	....	....	....	....	....	....	....	6	....	....	6.00	6.00
....	....	1	....	....	....	....	....	1	....	....	1.17	1.17
....	1	4	....	....	....	2	34	188	2.00	33.53	188.10	223.63
4	....	1	....	....	....	5	4	2	2.97	4.00	2.76	9.73
....	....	....	....	....	....	3	10	63	3.00	9.97	61.53	74.50
4	1	6	....	....	....	10	48	260	7.97	47.50	259.56	315.03
348	54	309	4	1	12	134	86	507	149.67	87.93	500.23	737.83
....	....	3	....	....	....	....	10	55	....	10.00	52.87	62.87
....	....	1	....	....	2	....	....	24	....	....	21.77	21.77
11	2	24	2	1	8	3	2	7	2.36	2.73	9.21	14.30
8	4	24	....	....	9	6	3	12	4.03	1.36	8.71	14.10
....	1	2	....	....	5	....	....	....	....	.60	.20	.80
15	15	4	2	1	2	7	6	....	5.30	5.36	1.50	12.16
3	....	1	....	....	2	2	....	1	....	.80	.43	1.23
37	22	55	4	2	26	18	11	20	11.69	10.85	20.05	42.59
....	....	....	....	....	....	....	2	38	....	2.00	40.56	42.56
....	....	....	....	....	....	....	2	24	....	2.00	24.00	26.00
....	....	....	....	....	....	....	4	62	....	4.00	64.56	68.56
67	21	167	2	1	8	28	22	181	26.69	25.86	180.95	233.50
14	8	67	....	....	10	13	6	56	10.23	4.33	48.41	62.97
....	2	6	....	....	5	2	36	226	2.00	36.13	228.86	266.99
288	42	98	6	1	3	96	33	67	112.07	32.53	62.29	206.89
16	3	30	....	1	14	13	14	138	10.37	13.93	138.97	163.27
385	76	368	8	3	40	152	111	668	161.36	112.78	659.48	933.62

Number of employees remaining in hospitals:

White..... 69
 Black..... 237

Total..... 306

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

Station.	Re-main-ing Nov. 1.		Ad-mitted.		Died.		Dis-charged.		Trans-ferred.		Re-main-ing Nov. 30.		Days lost.		
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	Total.
Ancon.....	5	.....	126	1	.....	.....	129	1	1	.....	1	.....	197	2	199
Balboa.....	5	.....	136	8	.....	.....	133	6	4	1	4	1	286	25	311
Pedro Mi-guel.....	.....	.....	19	1	.....	.....	17	.....	1	.....	1	1	24	3	27
Paraiso.....	.....	.....	15	3	.....	.....	14	3	1	.....	.....	.....	30	4	34
Gamboa.....	.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	.....	2	7	9
Gatun.....	1	.....	11	3	.....	.....	9	2	.....	1	3	.....	32	4	36
Colon.....	6	15	82	169	.....	.....	84	164	.....	.....	4	20	175	605	780
Total.	17	15	389	187	.....	.....	386	178	7	2	13	22	746	650	1,396

ALL CASES TREATED BUT NOT EXCUSED.

Station.	Employees.			Nonemployees.			Totals.		
	W.	B.	Total.	W.	B.	Total.	W.	B.	Total.
Ancon.....	2,759	4,167	6,926	1,981	3,001	4,982	4,740	7,168	11,909
Balboa.....	3,173	3,721	6,894	2,092	572	2,664	5,265	4,293	9,558
Pedro Miguel.	978	1,331	2,309	781	430	1,211	1,759	1,761	3,520
Paraiso.....	885	2,567	3,452	811	748	1,559	1,696	3,315	5,011
Gamboa.....	45	203	248	16	332	348	61	535	596
Gatun.....	241	1,197	1,438	670	1,057	1,727	911	2,254	3,165
Colon.....	1,357	3,444	4,801	1,037	1,151	2,188	2,394	4,595	6,989
Total....	9,438	16,630	26,068	7,388	7,291	14,679	16,826	23,921	40,747

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.

CONSOLIDATED ADMISSION REPORT.

	White.	Black.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward.....	468	440	908
Total admissions of employees to quarters.....	389	187	576
Total.....	857	627	1,484
Less number of patients transferred between hospitals and from quarters to hospitals, whose admissions are duplicated in above figures.....	18	40	58
Net admissions to hospitals and quarters.....	839	587	1,426
EMPLOYEES.			
Employees admitted to hospitals.....	117	259	376
Employees admitted to quarters.....	389	187	576
Total.....	506	446	952
Less number transferred between hospitals and from quarters to hospitals, whose admissions are duplicated in above figures.....	10	20	30
Net admissions of employees to hospitals and quarters.....	496	426	922
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,265.79	168.55	315.83

CONTAGIOUS AND INFECTIOUS DISEASES REPORTED DURING THE MONTH OF NOVEMBER, 1916.

Disease.	Panama.	Colon.	Canal Zone.	Total.
Beriberi.....	3			3
Chicken pox.....	5	4	1	10
Diarrhea.....			2	2
Diphtheria.....	4	2	4	10
Dysentery.....	2			2
Cerebrospinal meningitis.....	1			1
Malarial fever.....	22	10	26	58
Measles.....	9	1	12	22
Pellagra.....	1			1
Pneumonia.....		1		1
Scarlet fever.....	1			1
Smallpox.....	3			3
Syphilis.....	7			7
Tetanus.....	2			2
Tuberculosis.....	28	5	7	40
Meningitis, tubercular.....	2			2
Typhoid fever.....	2		1	3
Whooping cough.....	3	3		6
Yaws.....		1		1

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

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	46.63	158.57	205.20
Colon Hospital.....	10.48	17.92	28.40
Total.....	57.11	176.49	233.60
Quarters:			
Ancon.....	6.57	.07	6.64
Balboa.....	9.53	.83	10.36
Pedro Miguel.....	.80	.10	.90
Paraiso.....	1.00	.13	1.13
Gamboa.....	.07	.23	.30
Gatun.....	1.07	.13	1.20
Colon.....	5.83	20.17	26.00
Total.....	24.87	21.66	46.53
	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	57.11	24.87	81.98
Colored.....	176.49	21.66	198.15
Total.....	233.60	46.53	280.13
Average number of employees constantly sick per 1,000:			
White.....	12.14	5.29	17.43
Colored.....	5.82	.71	6.53
Total.....	6.67	1.33	8.00

TABLE XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Black.	Total.
Hospitals:			
Ancon Hospital.....	10.53	24.21	19.98
Colon Hospital.....	7.14	10.15	9.25
Quarters:			
Ancon.....	2.07	2.00	2.06
Balboa.....	2.00	3.28	2.05
Pedro Miguel.....	1.33	.....	1.33
Paraiso.....	2.00	1.33	1.89
Gamboa.....	.....	3.50	3.50
Gatun.....	3.67	1.33	3.08
Colon.....	2.13	5.80	4.56

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH.

	Oct., 1916.	Sept., 1916.	Oct., 1915.
Administration: Chief health office.....	\$407.18	\$817.23	\$959.22
Hospital division:			
Ancon Hospital.....	27,815.06	26,129.16	24,427.20
Board of health laboratory.....	2,002.90	2,217.44	1,587.44
Corozal Hospital and farm.....	7,422.24	6,475.28	6,876.07
Chronic ward.....	209.80	215.26	215.18
Colon Hospital.....	4,569.75	4,496.17	3,304.12
Palo Seco Leper Asylum.....	1,482.59	1,979.55	1,828.96
Santo Tomas Hospital.....	1,047.00	888.75	1,023.75
Medical storehouse.....	637.33	674.21	832.79
Reserve for new tools.....	2,159.04	2,095.77	.....
Total.....	47,345.71	45,171.59	40,095.51
District dentists.....	27.08	28.39	56.49
Dispensaries:			
Balboa.....	1,146.10	1,206.82	989.14
Corozal.....	.....	.....	528.77
Pedro Miguel.....	420.12	423.94	499.64
Paraiso.....	547.75	552.51	619.63
Gamboa.....	137.63	151.53	157.44
Gatun.....	509.28	674.50	755.40
Total.....	2,787.96	3,037.69	3,606.51
Sanitary division:			
General inspector.....	50.00	50.00	50.00
Health office, Panama.....	3,599.92	3,072.29	4,003.29
Street cleaning, Panama.....	3,911.03	4,257.84	4,592.46
Health office, Colon.....	2,477.25	2,999.06	3,412.47
Street cleaning, Colon.....	2,126.02	2,139.22	2,231.78
Total.....	12,164.22	12,518.41	14,290.00
Zone sanitation:			
Ancon.....	1,621.77	1,960.29	1,639.57
Balboa.....	723.33	1,366.01	1,529.91
Corozal.....	1,213.43	1,309.32	1,604.83
Pedro Miguel.....	2,994.36	3,939.33	3,119.47
Culebra.....	.....	.....	1.11
Frijoles.....	72.27	75.75	102.98
Gatun.....	2,950.03	3,933.83	3,070.17
Cristobal-Mount Hope.....	1,904.65	2,107.26	2,587.62
Total.....	23,644.06	26,910.20	27,945.66
Quarantine division:			
Chief quarantine office.....	169.08	171.39	169.34
Balboa-Panama.....	1,977.76	2,041.75	1,892.06
Colon-Cristobal.....	2,810.30	3,411.81	3,350.52
Inspection of cattle.....	497.50	.....	.....
Total.....	5,454.64	5,624.95	5,411.92
RECAPITULATION.			
Chief health office.....	407.18	817.23	959.22
Hospital division.....	47,345.71	45,171.59	40,095.51
Dispensaries.....	2,787.96	3,037.69	3,606.51
Sanitary division.....	23,644.06	26,910.20	27,945.66
Quarantine division.....	5,454.64	5,624.95	5,411.92
Total.....	79,639.55	81,561.66	78,018.82

TABLE XIII.—ANCON HOSPITAL.
REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total num- ber treat- ed.	American.		Other nations.	
		White.	Black.	White.	Black.
Hospital:					
Panama Canal employees.....	366	81	1	29	255
Panama Railroad employees.....	109	13	.....	7	89
Panama Government pay patients.....	.....	.....	.....	.....	.....
Other pay cases.....	578	359	.....	52	167
Charity patients.....	99	21	.....	6	72
Total.....	1,152	474	1	94	583
Asylum:					
Panama Canal employees.....	6	.....	.....	.....	6
Panama Railroad employees.....	2	.....	.....	.....	2
Panama Government pay patients.....	234	2	.....	36	196
Other pay patients.....	16	9	.....	4	3
Charity patients.....	77	3	.....	10	64
Total.....	335	14	.....	50	271
Grand total.....	1,487	488	1	144	854
Soldiers.....	242	242	.....	.....	.....
Chronics.....	27	.....	.....	.....	27
Farm (cripples).....	68	.....	.....	10	58

REPORT OF DAYS LOST IN HOSPITAL.

Hospital:					
Panama Canal employees.....	4,510	730	19	394	3,367
Panama Railroad employees.....	1,431	186	.....	89	1,156
Panama Government pay patients.....	.....	.....	.....	.....	.....
Other pay patients.....	5,550	3,114	.....	695	1,741
Charity patients.....	1,193	221	.....	35	937
Total.....	12,684	4,251	19	1,213	7,201
Asylum:					
Panama Canal employees.....	180	.....	.....	.....	180
Panama Railroad employees.....	35	.....	.....	.....	35
Panama Government pay patients.....	6,709	60	.....	1,006	5,643
Other pay patients.....	292	89	.....	120	83
Charity patients.....	2,235	90	.....	299	1,846
Total.....	9,451	239	.....	1,425	7,787
Grand total.....	22,135	4,490	19	2,638	14,988
Soldiers.....	2,310	2,310	.....	.....	.....
Chronics.....	653	.....	.....	.....	653
Farm (cripples).....	1,886	.....	.....	300	1,586

Average cost per subsistence per day, \$0.2709.

TABLE XIII.—ANCON HOSPITAL—Continued.

WARD LABORATORY REPORT.

Blood examinations (total number).....	546
Estivo-autumnal.....	26
Tertian.....	14
Differential counts.....	4
Hemoglobin estimations.....	155
Leucocyte counts.....	32
Red blood counts.....	8
Stool examinations (total number).....	508
Ameba.....	1
Ascaris lumbricoides.....	5
Ciliated nomads.....	6
Entameba (hystolitica and tetragena).....	1
Gualac tests.....	22
Pus and blood.....	25
Strongloides.....	16
Tenia saginata dispar (ova).....	2
Tricocephalus dispar.....	9
Uncinaria (ova).....	30
Urine examinations (total number).....	1,886
Albumen.....	427
Bile.....	12
Casts.....	424
Ciliated nomads.....	11
Epithelia.....	949
Gualac tests.....	94
Hemin crystals.....	6
Indican.....	111
Pus.....	681
Pus and blood.....	288
Sugar (pos. 5, neg. 35).....	40
Sputum examinations.....	346
Positive for tubercle bacilli.....	33
Smear examinations (total number).....	24
Urethral.....	12
Vaginal.....	21
Spinal fluid.....	4
Throat smears.....	1
Urine smears.....	6

REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Leg.....	1	.....
Leg, double.....	2	.....
Operations on bones:		
Ostectomy.....	2	.....
Wiring of fractures, simple.....	2	.....
Adenectomy:		
Cervical.....	3	.....
Axillary.....	1	.....
Inguinal, single.....	15	.....
Inguinal, double.....	2	.....
Femoral.....	1	.....
Herniotomy:		
Inguinal, single.....	7	.....
Inguinal, double.....	2	.....
Genito-urinary tract:		
Nephrotomy.....	1	.....
Nephrectomy.....	1	.....
Nephropoxy.....	1	.....
Urethrotomy, internal.....	1	.....
Urethrotomy, external.....	4	.....
Varicocele, radical cure.....	2	.....

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF SURGICAL OPERATIONS—Continued.

	Number.	Died.
Genito-urinary tract—Continued.		
Hydrocele, single, radical cure.....	2	.....
Epididymotomy.....	13	.....
Curetage uteri.....	7	.....
Perineoplasty.....	1	.....
Trachelorrhaphy.....	1	.....
Rectum:		
Hemorrhoids, radical cure.....	7	.....
Fistula in ano, excision of.....	3	.....
General:		
Excision of surface neoplasms.....	2	.....
Plastic operation for congenital defect.....	1	.....
Plastic operation for effects of disease.....	2	1
Laparaotomy:		
Exploratory.....	1	.....
Gastrectomy, partial.....	1	.....
Gastro-enterostomy.....	1	.....
Enterectomy.....	1	.....
Appendectomy.....	21	.....
Appendectomy with local peritonitis.....	1	.....
Splenectomy.....	1	.....
Supravaginal hysterectomy.....	4	.....
Hysteromyomectomy.....	4	.....
Salpingo-oophorectomy.....	4	.....
Ovarian cystectomy.....	3	.....
Oophorectomy.....	2	.....
Suspensio-uteri.....	5	.....
Mayo bilateral bunion.....	3	.....
Minor operations, various other.....	165	.....
Total.....	304	1

REPORT OF OPERATIONS, EYE AND EAR CLINIC.

Tonsillectomy and adenoidectomy.....	28
Tonsillectomy only.....	7
Adenoidectomy only.....	9
Submucous resections.....	9
Turbineotomy.....	5
Mastoidectomy, simple.....	1
Pterygium transplantations.....	4
Evisceration.....	1
Minor nose.....	1
Minor eye.....	1
Total.....	66
Refractions.....	111

REPORT OF OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Prescriptions.
Medical.....	302	191	22	279
Surgical.....	276	141	7	59
Eye and ear.....	522	132	.....	26
Total.....	1,100	464	29	364

TABLE XIII.—ANCON HOSPITAL—Continued.

MONTHLY REPORT OF VACCINATIONS.

Number of adults vaccinated.....	522
Number of takes.....	34
Number of school children vaccinated.....	30
Number of takes.....	6

BOARD OF HEALTH LABORATORY.

Bacteriological examinations of:	
Blood cultures (3 positive for <i>B. typhosus</i>).....	20
Throat cultures (9 positive for <i>B. diphtheriae</i> ; new 6, for release 3).....	97
Urines.....	155
Stools.....	142
Sputum.....	6
Pathological fluids, exudates, etc.....	8
Smears, gonococcus.....	2
Culture of autopsies.....	1
Leper suspects.....	2
Dairy milk from Corozal.....	29
Wassermann reactions.....	750
Autogenous vaccines prepared.....	4
Antityphoid vaccinations.....	1
Smallpox vaccinations.....	26
Smallpox allergin test (positive).....	1
Animal inoculations.....	9
Examination of blood preliminary to a transfusion; number of individuals..	6
Dark field examinations.....	13
Vaccine points manufactured.....	2,355
Chemical examinations of:	
Mothers' milk.....	1
Urine.....	10
Fat determinations of milk from Corozal farm.....	4
Powder for poison.....	1
Stomach contents.....	4
Stomach contents for opium.....	1
Economy brand skim milk.....	1
Spinal fluids—	
Butyric acid test.....	10
Ammonium sulphate test.....	10
Phenol test.....	10
Colloidal gold test.....	3
Pathological tissues prepared; paraffin 353; frozen 9.....	362
Surgical tissues reported.....	51
Test meals, pathological examination.....	3
Placental smears.....	23
Autopsies performed.....	26
Animals autopsied (hogs 10; rats (complete) 10; calves 9; monkeys 1).....	30
Drowned bodies examined.....	2
Sick calf under observation.....	1
Rats examined (<i>mus musculus</i> , 535; <i>mus norwegicus</i> , 757; <i>mus alexandrinus</i> , 5; <i>mus rattus</i> , 164).....	1,461
Bodies embalmed.....	3
Interments at Corozal.....	10
Taken to Panama.....	6
Taken to Gatun.....	1
Taken to Mount Hope.....	1
Cremations.....	19

TABLE XIII.—ANCON HOSPITAL—Continued.
 MOSQUITOES IDENTIFIED AT THE BOARD OF HEALTH LABORATORY.

Stations.	Anopheles, albianus.	Anopheles, tarsimaculata.	Anoph. pseudopunctipennis.	Anopheles, apicimacula.	Anopheles, malefactor.	Culex and allied genera.	Mansonia titillans.	Mansonia fasciolatus.
Ancon.....	2	.....	.....	.....	.....	495	.....	.....
Balboa.....	2	.....	.....	.....	.....	554	7	.....
Corozal district.....	33	.....	.....	.....	1	4	36	.....
Corozal post.....	61	.....	.....	1	1	15	11	.....
Pedro Miguel.....	8	.....	2	.....	.....	4	265	.....
Pedro Miguel railroad station.....	17	.....	1	.....	1	5	1,206	.....
Paraiso.....	8	.....	.....	.....	.....	33	193	.....
Red Tank.....	3	.....	.....	.....	.....	.....	22	.....
Miraflores.....	.....	.....	.....	.....	.....	1	4	.....
Rio Grande.....	2	.....	.....	.....	.....	.....	534	.....
Lirio & Cerro.....	1	.....	.....	.....	.....	.....	664	.....
Dredges, Culebra Cut.....	1	.....	.....	.....	.....	416	467	.....
Gamboa.....	11	.....	.....	.....	.....	.....	2,642	.....
Gatun.....	63	.....	.....	.....	1	10	458	14
New Gatun.....	87	.....	.....	.....	2	19	340	11
Frijoles.....	613	32	.....	.....	.....	.....	6,438	1
Monte Lirio.....	108	.....	.....	.....	.....	.....	1,054	.....
Barracks, Cristobal.....	16	6	.....	1	.....	3,107	45	1
Silver married quarters.....	1	.....	.....	.....	.....	1,230	.....	.....
Mount Hope village.....	18	7	.....	.....	.....	134	9	2
Panama Railroad cars, Cristobal.....	.....	.....	.....	.....	.....	123	.....	.....
Colon Hospital.....	4	.....	.....	.....	2	834	185	.....
Lincoln House, Colon.....	.....	.....	.....	.....	2	457	7	.....
Camp Gaillard.....	2	.....	.....	.....	1	134	2,436	.....
Empire.....	.....	.....	.....	.....	.....	2	612	.....
Camp Otis.....	2	.....	.....	1	.....	2	4,320	.....
Fort Randolph.....	8	4	.....	.....	.....	.....	4	1
Fort Sherman.....	23	.....	.....	.....	1	138	1,132	1
Fort Grant.....	1	.....	.....	.....	.....	457	.....	.....
Total.....	1,095	49	3	3	12	8,174	23,091	31

TABLE XIII.—ANCON HOSPITAL—Continued.

MOSQUITOES IDENTIFIED AT THE BOARD OF HEALTH LABORATORY—Continued.

Stations.	<i>Mansonia nigricans.</i>	<i>Stegomyia.</i>	<i>Aedes taeniorhynchus.</i>	<i>Wyeomyia.</i>	<i>Lesticocampa.</i>	<i>Joblotia digitatus.</i>	<i>Lutzia allostigma.</i>	<i>Psorophora posticata.</i>	Total.
Ancon.....		2		2					501
Balboa.....			2						565
Corozal district.....				1					75
Corozal post.....				3					92
Pedro Miguel.....				1					280
Pedro Miguel railroad station.....									1,230
Paraiso.....				1	1	1			237
Red Tank.....									25
Miraflores.....									5
Rio Grande.....									536
Lirio & Cerro.....				1					666
Dredges, Culebra cut.....		38					1		923
Gamboa.....				1					2,654
Gatun.....	3			5					554
New Gatun.....	1			1					461
Frijoles.....				6					7,090
Monte Lirio.....	5			1					1,168
Barracks, Cristobal.....				2					3,178
Silver married quarters.....				1					1,232
Mount Hope village.....				2					172
Panama Railroad cars, Cristobal.....									123
Colon Hospital.....								1	1,026
Lincoln House, Colon.....									466
Camp Gaillard.....				78	22				2,673
Empire.....				9	4				627
Camp Otis.....	1			1				1	4,328
Fort Randolph.....									17
Fort Sherman.....								2	1,297
Fort Grant.....		1	238						697
Total.....	10	41	240	116	27	1	1	4	32,898

TABLE XIII.—ANCON HOSPITAL—Continued.

COROZAL HOSPITAL.

STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS, NOVEMBER, 1916.

COMMITMENTS.

	Male.	Female.
From Canal Zone: First admission.....	6	3
From Panama Government:		
First admission.....	5	6
Third admission.....	1	.....
Total.....	12	9

DISCHARGES.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Barbados.....		1	.....	1	.....	.....
Jamaica.....			1	1	.....	.....
Panama.....		1	.....	2	.....	.....
United States.....			(D) 1	.....	(D) 3	.....
Total.....		2	2	4	3	.....

NOTE: (D) Four soldiers deported to United States.

DEATHS.

Medical diagnosis.	Mental diagnosis.	Male.	Female.
Broncho - pneumonia; syphilis; chronic nephritis.	Psychosis associated with cerebral syphilis.	.....	1
Pellagra.....	Dementia precox.....	.....	1
Acute pyonephritis; arteriosclerosis.	Epilepsy.....	.....	1
Tuberculosis of lungs; cystitis; uncinari- asiasis; epilepsy.	do.....	1	.....
Pellagra; broncho-pneumonia.....	Psychosis, associated with cerebral arterio- sclerosis.	1	.....
Syphilis, tertiary; stricture of ure- thra; gangrene of lungs.	Psychosis, associated with cerebral syphilis.	1	.....
Abscess of brain.....	Dementia precox.....	¹ 1	.....

¹ Died at Ancon Hospital.

TABLE XIV.—COLON HOSPITAL.

NATIONALITY.

	White American.	White Foreign.	Black.	Total.
Panama Canal employees.....	16	5	39	60
Panama R. R. employees.....	14	7	46	67
Panama pay.....		2	8	10
Other pay.....	24	25	6	55
Charity cases.....	5		4	9
Total.....	59	39	103	201

LABORATORY REPORT.

Blood examinations.....	119
Estivo-autumnal.....	7
Tertian.....	1
White blood counts.....	16
Hemoglobin.....	4
Differential counts.....	2
Stool examinations.....	43
Uncinaria.....	5
Tricocephalus dispar.....	2
Red blood cells.....	1
Pus.....	1
Urine examinations.....	157
Albumen.....	109
Casts.....	67
Pus.....	4
Blood.....	29
Sputum examinations.....	61
Positive for tubercle bacilli.....	5
Smear examinations.....	3
Positive for gonorrhea.....	2

SURGICAL OPERATIONS.

Herniotomy:	
Inguinal, single.....	2
Inguinal, double.....	1
Genito-urinary tract:	
Varicocele, radical cure.....	1
Epididymotomy.....	1
Curettagé uteri.....	4
Trachelorrhaphy.....	1
Obstetrical:	
Low forceps.....	1
Version.....	1
Perineorrhaphy.....	1
Thorax: Stab wound of chest, operation for.....	1
Rectum: Hemorrhoids, radical cure.....	1
General: Tenorrhaphy.....	3
Laparotomy:	
Gastroenterostomy (one for perforative duodenal ulcer, after closure of ulcer and drainage).....	2
Appendectomy.....	4
Myomectomy.....	1
Ovarian cystectomy, bilateral.....	1
Suspensio uteri.....	4
Minor operations, various.....	9
Minor operations, various (dispensary).....	145

TABLE XV.—PALO SECO LEPER ASYLUM.

NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Employees.....						
Panama pay patients.....	2	41			2	41
Charity patients.....	2	26			2	26
Total.....	4	67			4	67

Cost of subsistence per patient per day, \$0.28.

TABLE XVI.—SANTO TOMAS HOSPITAL.

	Remain- ing Nov. 1.	Admit- ted.	Dis- charged.	Died.	Remain- ing Nov. 30.
Pay cases.....	18	80	67	3	28
Charity cases.....	421	852	749	94	430
Total.....	439	932	816	97	458

Average number of patients constantly sick..... 450
 Total number of days treatment..... 13,340
 Average number of days treatment for each patient..... 9
 Cost of subsistence per patient per day..... \$0.39

NATIONALITY OF PATIENTS.

Class.	Number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Pay cases.....	98	1		36	61
Charity cases.....	1,273	9		114	1,150
Total.....	1,371	10		150	1,211

DISPENSARY REPORT.

Class.	White.	Black.	Total.
Natives.....	20	615	635
Foreigners.....	33	342	375
Total.....	53	957	1,010

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

DISEASES TREATED.

Malaria.....	37
Smallpox.....	3
Measles.....	1
Scarlet fever.....	1
Diphtheria and croup.....	4
Influenza.....	5
Dysentery.....	12
Leprosy.....	1
Erysipelas.....	2
Other epidemic diseases.....	4
Purulent infection and septicemia.....	8
Pellagra.....	2
Tuberculosis of the lungs.....	12
Pott's disease.....	2
Syphilis.....	40
Soft chancre.....	23
Gonococcus infection.....	32
Cancer and other malignant tumors of the breast.....	1
Other tumors.....	4
Acute alcoholism.....	5
Other forms of mental alienations.....	4
Epilepsy.....	3
Hysteria.....	2
Neuralgia and neuritis.....	6
Other diseases of the eyes and their annexa.....	8
Organic diseases of the heart.....	9
Diseases of the arteries.....	4
Diseases of the veins.....	3
Diseases of the lymphatic system.....	9
Chronic bronchitis.....	21
Broncho-pneumonia.....	2
Pneumonia.....	5
Pleurisy.....	4
Asthma.....	2
Diseases of the pharynx.....	19
Other diseases of the stomach.....	4
Diarrhea and enteritis (under 2 years).....	1
Diarrhea and enteritis (over 2 years).....	6
Ankylostomiasis.....	45
Intestinal parasites.....	9
Appendicitis and typhlitis.....	11
Hernias, intestinal obstructions.....	12
Diseases of the anus and fecal fistula.....	4
Other diseases of the intestines.....	10
Biliary calculi.....	2
Other diseases of the liver.....	2
Diseases of the spleen.....	1
Simple peritonitis.....	2
Bright's disease (chronic nephritis).....	34
Diseases of the bladder.....	2
Diseases of the urethra.....	3
Nonvenereal diseases of the female genital organs.....	8
Uterine hemorrhage.....	2
Uterine tumor.....	1
Metritis.....	14
Other diseases of the uterus.....	9
Salpingitis and other diseases of the female genital organs.....	11
Nonpuerperal diseases of the breast.....	1
Normal labor.....	100
Accidents of pregnancy.....	18
Other accidents of labor.....	2
Puerperal diseases of the breast.....	1
Acute abscess.....	10
Other diseases of the skin and annexa.....	31
Diseases of the bones.....	1
Diseases of the joints.....	10

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

DISEASES TREATED—Continued.

Nurslings discharged from hospital without disease.....	95
Venomous bites and stings.....	1
Other acute poisonings.....	3
Burns.....	2
Traumatism by firearms.....	2
Traumatism by cutting or piercing instruments.....	7
Traumatism by other crushings.....	3
Sprains.....	3
Fractures.....	12
Other external violence.....	15
No disease.....	6
Total discharges.....	816
Deaths.....	97
Remaining.....	458
Total number of patients treated during the month.....	1,371

SURGICAL OPERATIONS.

	Number.	Deaths.
Digits, multiple.....	4	.....
Adenectomy, cervical.....	2	.....
Adenectomy, inguinal, single.....	2	.....
Adenectomy, inguinal, double.....	1	.....
Herniotomy, inguinal, single.....	5	.....
Herniotomy, ventral.....	2	.....
Herniotomy, strangulated.....	1	.....
Cystotomy.....	1	.....
Urethrotomy, external.....	7	.....
Hydrocele, single, radical cure.....	3	.....
Hydrocele, double, radical cure.....	1	.....
Curetage uteri.....	7	.....
Thoracotomy.....	1	1
Hemorrhoids, radical cure.....	2	.....
Fistula in anus, excision of.....	5	.....
Excision of surface neoplasm.....	1	.....
Plastic operation for effects of disease.....	10	.....
Skin graft.....	11	.....
Laparotomy for intestinal obstructions.....	1	.....
Appendectomy.....	10	.....
Appendectomy with local peritonitis.....	1	.....
Pan-hysterectomy.....	2	.....
Supravaginal hysterectomy.....	2	.....
Salpingectomy, single.....	1	.....
Salpingectomy, double.....	2	.....
Salpingo-oophorectomy.....	11	.....
Oophorectomy.....	1	.....
Suspensio-uteri.....	8	.....
Major operations, various other.....	1	.....
Minor operations, various other.....	22	.....
Total.....	128	1

TABLE XVII.—SUMMARY OF SANITARY WORK PERFORMED AND MATERIAL EXPENDED DURING THE MONTH OF NOVEMBER IN THE CANAL ZONE.

Work requests on supply department:	
Grass cutting.....	40
Screening.....	11
Miscellaneous.....	8
Work requests on municipal engineering department.....	13
Buildings inspected:	
For screening.....	1,622
For mosquitoes.....	5,237
For general sanitation.....	2,235
Stores, inspections of.....	24
Restaurants, inspections of.....	12
Shops, inspections of.....	76
Notices served to abate nuisances.....	2
Houses disinfected and fumigated.....	4
Pit closets inspected.....	582
Closets disinfected.....	665
Garbage cans emptied.....	2,852
Rat traps in use.....	400
Rats destroyed.....	489
Number of mosquitoes destroyed in dwellings:	
Anopheles.....	919
Stegomyia.....	40
Culex.....	1,696
Mansonia.....	12,498
Material expended:	
Larvacide, gallons.....	544
Crude oil, gallons.....	12,872
Kerosene, gallons.....	633
Number of containers with stegomyia larvæ found.....	1
Fly breeding places destroyed.....	5

REPORT OF ROUTINE WORK DONE BY HEALTH OFFICE, PANAMA.

General sanitation:	
Linear feet of ditches cleaned and maintained.....	74,400
Linear feet of new ditches dug.....	115
Number of cubic yards of earth used in filling.....	0
Gallons of larvacide used.....	935
Gallons of crude oil used.....	6,040
Gallons of kerosene used.....	173
Square yards of pools oiled.....	471,940
Water containers treated.....	10,685
Mosquito breeding places found (Stegomyia 128).....	329
Fly breeding places found.....	54
Flies trapped (13,000 per quart).....	100
Number of rats killed.....	927
Number of room disinfections made.....	25
Square feet of vegetation removed.....	331,900
Garbage collection:	
Number of loads of garbage removed to dump.....	4,375
Number of cubic yards of garbage removed to dump.....	9,366
Total number of cans of garbage emptied.....	42,701
Buildings:	
Number of buildings inspected.....	4,504
Number of plans for new buildings approved.....	13
Number of permits issued for repairs to old buildings.....	67
Total building permits issued.....	80
Number of buildings condemned.....	10
Number of stables condemned.....	0
Number of buildings demolished.....	10
Street cleaning:	
Average number of square yards of streets cleaned daily.....	600,000
Average number of square yards of streets sprinkled daily.....	0
Number of private properties cleaned during month.....	7
Number of nuisance notices served and nuisances abated.....	300
Vaccinations:	
Number of vaccinations performed during month.....	188
Total number of vaccinations since Apr. 1, 1914.....	25,068

MONTHLY WORK REPORT FOR COLON-CRISTOBAL, AND MOUNT HOPE.

Sanitation, Colon-Cristobal:

Square yards street cleaned.....	3,745,848
Square yards alleys maintained.....	624,000
Number of private properties cleaned.....	738
Cubic feet fumigated.....	6,272
Doses of quinine issued.....	6,435
Number of dogs caught.....	130
Number of dogs killed.....	21
Number of rats caught.....	336
Loads of yard garbage disposed of.....	576
Number of cans garbage (cubic yards, 2,505).....	13,958
Colon dump maintained.....	
Linear yards of ditches constructed.....	0
Linear yards of ditches maintained.....	1,116
Acres of vegetation removed—	
Quarantine station.....	8
Cristobal (Panama R. R. reservation).....	4½
Washington Hotel.....	2
Colon Hospital.....	2
Panama R. R. reservation, Colon (swamp).....	40
Parkway and E Street maintained.....	
Square yards oiled.....	45,325
Number of receptacles treated.....	46,960
Number of mosquitoes caught in Colon Hospital screens—	
Anopheles.....	8
Culex.....	3,210
Number of mosquito breeding places destroyed.....	2
Number of fly-breeding places destroyed.....	6
Number of buildings inspected.....	10,285
Number of gallons of larvacide used in Colon.....	156.08
Number of gallons of crude oil used in Colon.....	1,175
Number of nuisances abated.....	347

Building—Colon:

Number of building plans approved.....	3
Number of permits to occupy issued.....	12
Number of permits to repair issued.....	52
Number of bills collected.....	134

Sewers—Colon:

Number of new connections made during the month.....	3
Total number of connections made to date.....	1,361
Number of houses on which connections were made.....	8
Outstanding permits.....	32

Sanitation, Cristobal:

Number of cans garbage (cubic yards 705).....	13,958
Loads of yard garbage handled.....	194
Square yards oiled.....	6,905
Number of receptacles treated.....	5,700
Number of mosquito breeding places destroyed.....	0
Number of fly-breeding places destroyed.....	0
Gallons of larvacide used.....	3
Gallons of crude oil used.....	225
Number of buildings inspected.....	1,330
Number of nuisances abated.....	39

Sanitation, Mount Hope:

Number of cans garbage (cubic yards 102).....	780
Square yards oiled.....	124,000
Number of doses of quinine issued.....	674
Number of receptacles treated.....	12,150
Number of mosquito places destroyed.....	94
Number of mosquitoes caught—	

Anopheles—

Barracks.....	20
Mount Hope village.....	30

Total anopheles..... 50

Sanitation, Mount Hope—Continued.

Number of mosquitos caught—Continued.

Culex—	
Barracks.....	3, 190
Silver married quarters.....	1, 572
Steamship.....	1
Mount Hope village.....	225
Camp Beird cars.....	131
Total culex.....	5, 119
Gallons of larvacide used.....	50
Gallons of crude oil used.....	3, 109. 9
Mount Hope cemetery maintained.....	
Linear yards ditches constructed.....	0
Linear yards ditches maintained.....	9, 650
Square yards of vegetation removed.....	125, 200
Number of burials during the month.....	40

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON CRISTOBAL FOR THE MONTH OF NOVEMBER, 1916.

Number of vessels inspected and passed.....	203
Number of vessels held in quarantine.....	16
Total number of vessels entered.....	219
Number of special inspections made to enforce compliance with antiplague and mosquito-breeding regulations.....	126
Number of vessels fumigated on arrival.....	20
Number of vessels fumigated on departure.....	1
Number of vessels detained but sailed in quarantine.....	8
Number of crew examined.....	11, 909
Number of stowaways examined.....	5
Number of passengers examined.....	4, 526
	16, 440
Number of supplementary examinations.....	3, 141
Number of persons vaccinated at port of arrival because of compulsory-vaccination law.....	228
Number of persons vaccinated at port of departure.....	1, 283
	1, 511
Number of persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	290
Number of persons held in quarantine on board vessels.....	1, 613
	1, 903
Total number of persons landed from foreign ports:	
Cabin.....	1, 970
Steerage.....	1, 650
	3, 620
Total number of persons embarked for foreign ports:	
Cabin.....	1, 517
Steerage.....	1, 511
	3, 028
Total number of persons arriving from coast towns.....	1, 620
Total number of persons sailing for coast towns.....	1, 413
Apparent increase for month from coast towns.....	207

Apparent increase for month from foreign ports:

Cabin.....	453
Steerage.....	139
	<u>592</u>
Number of clearances issued.....	54
Number of bills of health issued or viséed.....	243
Number of inspections of docks.....	10
Number of inspections of vessels at docks.....	12
Number of immigrants rejected and deported.....	43
Total number of persons landed.....	5,240
Less number for Pacific ports.....	260
	<u>4,980</u>
Total number of persons sailing.....	4,441
Apparent increase for month.....	539

IMMIGRATION REPORT FOR COLON AND CRISTOBAL.

From—	Cabin.	Steerage.
Europe.....	9	8
United States.....	808	436
Jamaica and West Indies.....	44	155
Venezuela.....	6	0
Colombia.....	82	129
Cuba.....	64	16
Costa Rica.....	115	48
Bocas del Toro.....	39	148
Coast towns.....	0	172
	<u>1,167</u>	<u>1,112</u>
Grand total.....	2,279	

Men.....	883
Women.....	556
Children.....	256
United States troops.....	412
Unclassified.....	172
Total.....	2,279

QUARANTINE TRANSACTIONS AT THE PORT OF BOCAS DEL TORO, PANAMA.

Number of vessels inspected and passed.....	16
Number of crew inspected and passed.....	1,367
Number of passengers inspected and passed.....	258
Number of passengers, transit, inspected and passed.....	110

An epidemic of mumps exists at Bocas del Toro at the present time. No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory continue good.

TABLE XIX.—STATEMENT OF QUININE ISSUED.

Quinine sulphate (kilos).....	3.00
Pounds, avoirdupois.....	6.61

TABLE XX.—PERSONNEL REPORT.

	Nov., 1916.			Oct., 1916 (total em- ployees).	Nov., 1915 (total em- ployees).
	Gold em- ployees.	Silver em- ployees.	Total em- ployees.		
Chief health officer.....	3	.....	3	4	4
Medical storehouse.....	4	4	8	8	10
Quarantine division.....	13	33	46	46	43
Health office, Panama.....	13	151	164	152	176
Health office, Colon.....	9	154	163	160	195
Ancon Hospital.....	125	235	360	367	337
Colon Hospital.....	16	26	42	41	37
Santo Tomas Hospital.....	6	.....	6	6	6
Palo Seco Leper Asylum.....	2	39	41	35	30
Zone sanitation.....	7	117	124	124	146
Hospital farm.....	2	67	65	51	51
Dispensaries:					
Balboa.....	5	3	8	8	7
Corozal.....	.....	.....	.....	.....	4
Gamboa.....	1	.....	1	1	1
Gatun.....	2	2	4	4	5
Paraiso.....	2	2	4	4	4
Pedro Miguel.....	2	1	3	3	3
Total.....	212	834	1,046	1,014	1,059

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