

REPORT
OF THE
HEALTH DEPARTMENT
OF
THE PANAMA CANAL
FOR THE
MONTH OF SEPTEMBER, 1917

ALBERT E. TRUBY,
Colonel, Medical Corps, United States Army
Chief Health Officer, Balboa Heights, Canal Zone

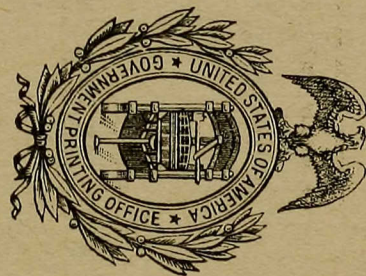
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WASHINGTON
1917

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LETTER OF TRANSMITTAL.

THE PANAMA CANAL, CANAL ZONE,
HEALTH DEPARTMENT,
Balboa Heights, Canal Zone, October 11, 1917.

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

SIR: I have the honor to submit the following report of the operations of the health department for the month of September, 1917.

Col. D. C. Howard was relieved from duty with the Panama Canal by War Department orders on October 4, 1917, and the undersigned was appointed chief health officer on October 5, 1917.

Respectfully,

ALBERT E. TRUBY,
Chief Health Officer.

GENERAL REMARKS.

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

No secondary cases of infantile paralysis have followed the case reported in August.

The rigid measures taken in the Balboa district to reduce the prevalence of measles and diphtheria have produced excellent results, and the epidemic has practically subsided. The schools were therefore able to open at the scheduled time.

Two cases of leprosy were discovered during the month; one, a native of Colombia, was returned to that country; the other was transferred to Palo Seco.

One case of cerebrospinal meningitis and one case of tetanus were admitted to Ancon Hospital; both terminated fatally.

VITAL STATISTICS.

EMPLOYEES.

The following statistics are based upon the total number of names appearing on the pay rolls of The Panama Canal and the Panama Railroad Co. for the preceding month, which was 31,307.

Admissions to hospitals and quarters numbered 997, a rate of 382.15,¹ as compared with 424.94 for the preceding month and 261.99 for the corresponding month of last year.

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

Deaths from all causes numbered 24; of these, 19 were from disease, giving a rate of 728 from disease alone, as compared with a rate of 7.57 for the preceding month and 3.58 for the corresponding month of last year.

The constantly noneffective rate was 10.75, as compared with a rate of 10.35 for the preceding month and 8.88 for the corresponding month of last year.

Disease causing the highest admission rates to hospitals, in the order of their numerical importance, were: (1) Malaria, (2) venereal diseases, (3) influenza, (4) diseases of the pharynx, and (5) diseases of the eyes and their annexa. These five diseases caused 36 per cent of all admissions to hospitals, malaria alone causing 15 per cent and venereal diseases 13 per cent of all admissions.

The admission rate for malaria, hospitals and quarters, was 28.36, as compared with 19.46 for the preceding month and 13.95 for the corresponding month of last year. The constantly noneffective rate from malaria was 0.74, as compared with 0.58 for the preceding month and 0.67 for the corresponding month of last year.

By race.—For disease only, the admission rate to hospitals and the death rate for white employees were 294.81 and 7.50, respectively, as compared with 273.85 and 2.47 for the preceding month and 222.33 and 7.94 for the corresponding period of last year. For black employees, for disease only, the admission rate to hospital and the death rate were 127.68 and 7.25, respectively, as compared with 132.96 and 8.44 for the preceding month and 69.94 and 2.89 for the corresponding month of last year.

The constantly noneffective rates were 17.35 for whites and 9.55 for blacks.

The admission rate to hospitals and quarters for malaria was 42.47 for white and 25.81 for colored employees, as compared with 17.27 for white and 19.84 for colored employees for the preceding month and 26.47 for white and 12 for colored employees for the corresponding month of last year.

For American employees, the admission rate to hospitals, from disease only, was 255.38, as compared with 248.91 for the preceding month, and 180.34 for the corresponding month of last year.

CANAL ZONE.

The civilian population of the Canal Zone, based on the police census, taken as of June 10–30, 1917, is 24,038. From this population 28 deaths occurred during the month, 25 of which were from disease, giving a rate of 11.50 from disease alone, as compared with 15.47 for the preceding month, and 10.82 for the corresponding month of last year.

Of the deaths from disease, 52 per cent occurred among children under 5 years of age, as compared with 39 per cent for last month.

Sixty-one births were reported during the month, giving a rate of 30.45. Of these births, 23 were white and 38 colored.

Eleven deaths occurred among children under 1 year of age, all colored, giving an infant mortality rate, based on the number of births reported for the month, of 0.00 for white and 289.00 for colored children, with a general average of 180.33 per 1,000 births.

PANAMA.

The population of the city, as shown by the health department census of June, 1917, is 61,369. In this population is included approximately 8,000 employees of The Panama Canal. From this population, 123 deaths occurred during the month, 117 of which were from disease, giving a rate of 22.88 from disease alone, as compared with 26.40 for the preceding month, and 30.01 for the corresponding month of last year.

Of the total deaths from disease, 50 per cent occurred among children under 5 years of age, as compared with 52 per cent for the preceding month.

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

	August.	September.
Tuberculosis (various organs).....	23	31
Diarrhea and enteritis.....	28	17
Pneumonia (including lobar and broncho-).....	15	7

Two hundred and fifty-one births were reported during the month, giving a rate of 49.08. Forty-four deaths occurred among children under 1 year of age, giving an infant mortality rate, based on the number of births reported for the month, of 175.30.

Of the total births reported, 9 per cent were stillbirths.

COLON.

The population of Colon, as shown by the health department census of June, 1917, is 26,078; in this population is included approximately 7,000 employees of The Panama Canal. From this population, 69 deaths occurred during the month, 68 of which were from disease, giving a rate of 31.29 from disease alone, as compared with 28.53 for the preceding month, and 31.10 for the corresponding month of last year.

Of the deaths from disease, 37 per cent occurred among children under 5 years of age, as compared with 52 per cent for the preceding month.

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

	August.	September.
Tuberculosis (various organs).....	12	10
Diarrhea and enteritis.....	6	9
Organic heart disease.....	5	8

Eighty-nine births were reported during the month, giving a rate of 40.96. Eighteen deaths occurred among children under 1 year of age, giving an infant mortality rate, based on the number of births reported for the month, of 202.25.

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

DIVISION OF HOSPITALS.

ANCON HOSPITAL.

The average number of patients constantly in the hospital proper during the month was 534, as compared with 528 for the preceding month, and 470 for the corresponding month of last year. The average length of stay in hospital for each employee admitted was 17.41 days.

The construction work on the new hospital is progressing rapidly. The administration building, kitchen and mess building, isolation building, and the nurses' quarters are all under construction; the first two named will be ready for occupancy about January 1, 1918.

Twenty-four cases of measles were admitted as compared with 42 in August, 24 in July, and 48 in June.

Twenty-two cases of diphtheria were admitted as against 7 in August.

Ten cases of chicken pox were admitted in September, being the same number as for the preceding month.

Three cases of leprosy were admitted, two of whom were non-residents.

One case each of tetanus and cerebrospinal fever, meningococcic, were admitted, and both terminated fatally.

Seven cases of pneumonia were admitted as against 11 for August. Statistical charts are shown under Tables VII, VIII, and XIII.

COROZAL HOSPITAL.

The average number of insane patients cared for during the month was 356, as compared with 361 for the preceding month, and 301 for the corresponding month of last year.

During September, 11 patients were admitted, 5 died, and 12 were discharged. The admissions include one retransfer from Ancon Hospital. Among the discharges are included 8 patients who were deported to the United States.

The general health of patients and cripples remains good.

Statistical charts are shown under Tables VIII and XIII.

BOARD OF HEALTH LABORATORY.

With a view of determining whether or not the native hogs were immune from hog cholera, a Colombian hog was secured from the supply department, and allowed to eat a bit of intestine containing hog cholera ulcers. The animal gradually became weak and emaciated and died one month later with the typical lesions of hog cholera. As the Panamanian hogs are probably of the same breed as the Colombian, the former are in all probability susceptible to the disease.

In addition to the above, three moribund Colombian hogs, also sent us by the supply department in Cristobal, during the progress of the above experiment, likewise showed lesions of hog cholera, but there was also a complicating verminous pneumonia.

An examination of 10 horses upon the estate of Mr. Alejandro de la Guardia, on the Tapia River, showed that eight of them had trypanosomes in their blood, although only two of them were thought to be sick. These horses were kindly placed at our disposal by Mr. Guardia for the purpose of allowing us to carry out experiments on the treatment of murrina. The therapeutic action of several drugs recommended in other trypanosomiasis of the horse is being investigated.

A report of routine operations is shown under Table XIII.

CHRONIC WARD.

The average number of chronic patients cared for during the month was 33.33. Four patients were admitted to, 1 discharged, and 3 transferred from this ward during the month.

COLON HOSPITAL.

Fifty-five patients were constantly cared for in the hospital during the month as compared with 57 for the preceding month, and 33 for the corresponding month of last year. The average length of stay in hospital for each employee admitted was 8.32 days.

Statistical charts are shown in Tables VII, VIII, and XIV.

PALO SECO LEPER ASYLUM.

An average of 66.56 patients were constantly cared for during the month, as compared with 65.61 for the preceding month, and 69.30 for the corresponding month of last year.

During September, two patients were admitted and one discharged.

SANTO TOMAS HOSPITAL.

One thousand two hundred and fifty-six patients were treated during September, as compared with 1,325 for the preceding month, and 1,382 for the corresponding month of last year. The daily average number of patients under treatment was 440, as compared with 457 for the preceding month, and 447 for the corresponding month of last year. The total number of days' treatment was 13,648, as compared with 14,173 for last month.

Seventy-eight deaths occurred at the institution during the month with (1) tuberculosis, (2) congenital debility, and (3) diarrhea and enteritis, the chief causes in the order named.

Statistical charts are shown under Table XV.

DIVISION OF SANITATION.

CANAL ZONE.

The following table shows the average monthly admission rate from malaria among employees to both hospitals and quarters for the month of September, the percentages being based on the ratio

of the number of admissions from each district to the total number of employees residing therein:

District.	Number of employees.	Number of admissions from malaria during month.	Average monthly admission rate.
Balboa.....	2,668	2	0.075
Ancon-Corozal.....	1,151	.....	.....
Pedro Miguel.....	1,352	4	.296
Paraiso.....	995	2	.201
West of Canal.....	367	.....	.....
Gatun.....	1,136	6	.529
Cristobal.....	3,414	17	.498
Colon.....	7,115	14	.197
Panama.....	8,383	1	.012
Miscellaneous ¹	3,809	28	.735
Total.....	31,307	74	.236

¹ Employees engaged in pasture and jungle clearing, etc., outside of above sanitized areas.

PANAMA.

An improvement which has been contemplated for some time is the construction of a new slaughterhouse. Plans are now under consideration by the municipal council, Panama, and it is hoped that the work of construction will begin shortly.

A considerable decrease in the malarial rate is noted as compared with the previous month. This is probably due, in a large measure, to our present system of investigating these cases. Formerly Santo Tomas Hospital reported cases of malaria treated in that institution by simply giving the number of cases and the district to which chargeable. Names and addresses of patients were not furnished, so there was no way for our inspectors to determine definitely the probable source of infection. At the present time each malarial case treated in Santo Tomas Hospital is reported by card, giving name and address of patient, and from an investigation of the cases treated during September it appears that many of the cases became infected outside of the city. This speaks well for the efficiency of our antimosquito work.

The past month has also shown a decrease in the number of cases of tuberculosis. Many cases were investigated during the month and home conditions noted. Our inspectors have been instructed to see that all obstructions of transoms over doors and windows be removed in order to permit of a better circulation of fresh air. In all new dwellings, for which permits are granted, we are insisting on larger windows and requiring shutters to be of lattice work in place of the tight board shutters that are now found in many of the tenement houses in Panama.

As a large percentage of our deaths among infants occurs among the poorer families of the city, who are ignorant of the proper care of babies, the work of our visiting nurse has been directed along educational lines. The Panamanian Red Cross are also working along similar lines in connection with their baby clinic. A pamphlet on the care of babies is now being prepared, and if approved, it is proposed to have copies distributed at the baby clinic at Santo Tomas Hospital, at the Panamanian Red Cross clinic, and by doctors and midwives attending the births of infants.

COLON.

There has been an increase in the malarial incidence during the month, due in part, no doubt, to the rigid enforcement of the law requiring physicians to report all malarial cases. The greater number of cases reported were found to be along the east side of Manzanillo Island, indicating that the source of infection was from the east. With this theory in view an investigation was made of the swamp to the right of Margarita Road, leading from Cocoanut Grove to the Fort Randolph Reservation, and extensive anopheles breeding was discovered. As this swamp is within three-fourths of a mile of New Cristobal, it is doubtless the source of infection.

In the Mount Hope district a great reduction has been noted in the mosquito catch, the number of anopheles caught in the barracks at Mount Hope having been reduced from 300 to 2 or 3 per day in the past 6 weeks. The large open drain running across Swamp No. 4 was reopened during the month, thereby eliminating a probable source of breeding in this district. Work on the new fill to be made near the radio station, Colon, is expected to begin within a few days.

QUARANTINE DIVISION.

Reports from South America indicate that plague is somewhat on the increase, particularly in the cities of Callao and Lima, Peru. This is the time of the seasonal increase of both plague and yellow fever at Guayaquil, Ecuador, though up to the present time the number of cases has been lower than expected. General sanitary conditions in Buenaventura, Colombia, are reported as not as favorable as in previous months, the sanitary work having been interrupted owing to a failure of supplies. We have had rumors that a resumption of the quarantine against the city of Buenaventura by the city of Cali, Colombia, is contemplated.

Conditions on the Atlantic side have shown practically no change. One case of smallpox previously reported and held over from the preceding month at Balboa quarantine was discharged cured.

During the month two lepers were brought to Cristobal, one from Colombia, to which country he was returned, the other from Bocas del Toro, Republic of Panama, which case, after bacteriological confirmation, was transferred to Palo Seco. With the exception of the two lepers; no cases of quarantinable nature arrived at or occurred upon the Isthmus during the month.

The inspection of food animals for the month of September was as follows:

For supply department, ante and post mortem inspections:

Cattle.....	1,564
Hogs.....	274

For supply department, quarantine inspections:

Cattle.....	5,227
Hogs.....	267

For outside interests, quarantine inspections: Goats..... 2

Hides disinfected:

At Cristobal slaughterhouse.....	1,576
By veterinarian, Panama health office.....	1,281

Local quarantine inspections of cattle by veterinarian attached to Panama health office..... 888

One case of anthrax occurred during the month in an animal at the Cristobal slaughterhouse. Diagnosis was confirmed by board of health laboratory. Disinfection was carried out, and no other cases of a suspicious or positive nature have occurred.

DEPORTATIONS.

Ten deportations were accomplished by the hospital authorities during the month, 4 employees and 6 nonemployees, all suffering from disease. In addition to the above, 18 deportations were effected by the quarantine authorities during the month.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES.

	Number of employees.	Admissions to hospitals.			Deaths.			Noneffective from sickness.	
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly noneffective.
September, 1917:									
White.....	4,803	133	118	15	7	3	4	2,501	83.35
Colored.....	26,504	353	282	71	17	16	1	7,594	253.15
Total.....	31,307	486	400	86	24	19	5	10,095	336.50
August, 1917:									
White.....	4,864	128	111	17	1	1	0	2,544	82.08
Colored.....	28,430	400	315	85	22	20	2	8,135	262.41
Total.....	33,294	528	426	102	23	21	2	10,679	344.49
September, 1916:									
White.....	4,534	100	84	16	4	3	1	1,860	62.01
Colored.....	28,994	251	169	82	9	7	2	7,067	235.57
Total.....	33,528	351	253	98	13	10	3	8,927	297.58

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES—Continued.

PROPORTIONATE NUMBERS.¹

September, 1917:									
White.....	4,803	332.29	294.81	37.48	17.49	7.50	9.99	.....	17.35
Colored.....	26,504	159.82	127.68	32.14	7.70	7.25	.45	.....	9.55
Total.....	31,307	186.28	153.32	32.96	9.20	7.28	1.92	.....	10.75
August, 1917:									
White.....	4,864	315.79	273.85	41.94	2.47	2.47	.....	.....	16.88
Colored.....	28,430	168.84	132.96	35.88	9.28	8.44	.84	.....	9.23
Total.....	33,294	190.30	153.54	36.76	8.29	7.57	.72	.....	10.35
September, 1916:									
White.....	4,534	264.67	222.33	42.35	10.59	7.94	2.65	.....	13.68
Colored.....	28,994	103.88	69.94	33.93	3.72	2.89	.83	.....	8.12
Total.....	33,528	125.63	90.55	35.08	4.65	3.58	1.07	.....	8.88

¹ Annual average per 1,000 employees.

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

	Popula- tion.	Deaths.			Annual average per 1,000 population.		
		Total.	Dis- ease.	External causes.	Total.	Dis- ease.	External causes.
September, 1917:							
Panama.....	61,369	123	117	6	24.05	22.88	1.17
Colon.....	26,078	69	68	1	31.75	31.29	.46
Canal Zone.....	¹ 24,038	28	25	3	12.88	11.50	1.38
Total.....	111,485	220	210	10	23.68	22.60	1.08
August, 1917:							
Panama.....	61,369	140	135	5	27.38	26.40	.98
Colon.....	26,078	64	62	2	29.45	28.53	.92
Canal Zone.....	¹ 24,038	32	31	1	15.97	15.47	.50
Total.....	111,485	236	228	8	25.40	24.54	.86
September, 1916:							
Panama.....	60,778	160	152	8	31.59	30.01	1.58
Colon.....	24,693	67	64	3	32.56	31.10	1.46
Canal Zone.....	31,048	34	28	6	13.14	10.82	2.32
Total.....	116,519	261	244	17	26.88	25.13	1.75

¹ Excluding military population.

TABLE II.—CAUSES OF DEATHS OF INFANTS BY SEX,

Cause of death.	Sex.		Color.		1 week.	+ 1 week — 1 month.
	M.	F.	W.	B.		
Malarial fever, estivo-autumnal.....		1	1			
Pyemia.....	1			1		
Septicemia.....	1		1			1
Tuberculosis of the lungs.....	1	1		2		
Tuberculosis, miliary.....		1		1		
Tuberculous meningitis.....	3			3		
Syphilis, hereditary.....	1		1			
Meningitis, simple.....	1			1		
Convulsions of infants.....	1			1		1
Organic heart disease.....		1		1		
Acute bronchitis.....		2		2		
Chronic bronchitis.....	1			1		
Broncho pneumonia.....	2	3		¹ 5		
Acute gastritis.....	1			1		
Acute indigestion.....	1			1		
Gastroenteritis.....	11	14	2	23		2
Colitis.....		1		1		
Intestinal obstruction.....	1			1		
Nephritis, acute.....	1		1			
Duodenal ulcer.....		1		1		
Congenital debility, icterus, sclerema.....	1	1		2	2	
Premature birth.....	1	3		4	3	1
Malnutrition.....	6	1		7		1
Other causes peculiar to early infancy.....	4	4	1	7	6	1
Total.....	39	34	7	66	11	7

Infant mortality rate, based on number of births reported for the month (deaths
Percentage of deaths under one year of age to total deaths for month.....

¹ Yellow.

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	Pana- ma.	Colon.	Zone.	Total.
						1						1		1
								1					1	1
											1			1
1								1			2			2
			1										1	1
	1								1	1	3			3
		1									1			1
		1									1			1
													1	1
								1				1		1
		1	1								1		1	2
	1											1		1
		2	2				1				4	1		5
							1				1			1
1	5	5	4	1	2		1	1	1	2	15	8	2	25
				1							1			1
1											1			1
1											1			1
				1								1		1
													2	2
											3	1		4
2	1		1				2				2	3	2	7
1											6	1	1	8
7	8	10	10	3	2	1	5	4	2	3	44	18	11	73
under 1 year of age per 1,000 births)											175.30	202.25	180.33	182.04
											36	26	34	33

TABLE III.—DEATHS, BY NATIONALITY.

Nationality.	Employees.		Nonemployees.		Total.		Grand Total.
	Male.	Female.	Male.	Female.	Male.	Female.	
Antigua.....			1		1		1
Barbados.....	3		14	19	17	19	36
Chile.....	1				1		1
China.....			2	1	2	1	3
Colombia.....			7	7	7	7	14
Cuba.....			1		1		1
Demarara.....				1		1	1
Germany.....				1		1	1
Grenada.....	1		2	1	3	1	4
Guadeloupe.....	1		1		2		2
Jamaica.....	8		30	21	38	21	59
Martinique.....	2		2	2	4	2	6
Montserrat.....	1		1		2		2
Nassau.....	1				1		1
Panama.....			34	25	34	25	59
Peru.....			1		1		1
St. Kitts.....			1		1		1
St. Lucia.....			2	2	2	2	4
St. Thomas.....				1		1	1
St. Vincent.....			1		1		1
Switzerland.....			1		1		1
Trinidad.....			1	3	1	3	4
Syria.....			1		1		1
United States.....	6		5	2	11	2	13
Venezuela.....			3	2	3	2	5
Costa Rica.....				1		1	1
Total.....	24		111	89	135	89	224

TABLE IV.—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.
September, 1917:							
Panama.....	61,369	277	251	26	54.16	49.08	5.08
Colon.....	26,078	101	89	12	46.48	40.96	5.52
Canal Zone.....	¹ 24,038	66	61	5	32.95	30.45	2.50
Total.....	111,485	444	401	43	47.79	43.16	4.63
August, 1917:							
Panama.....	61,369	245	225	20	47.91	44.00	3.91
Colon.....	26,078	88	77	11	40.49	35.43	5.06
Canal Zone.....	¹ 24,038	53	47	6	26.46	23.46	3.00
Total.....	111,485	386	349	37	41.55	37.57	3.98
September, 1916:							
Panama.....	60,778	298	277	21	58.84	54.69	4.15
Colon.....	24,693	69	65	4	33.53	31.58	1.95
Canal Zone.....	31,048	54	52	2	20.87	20.10	.77
Total.....	116,519	421	394	27	43.36	40.58	2.78

¹ Exclusive of military forces.

TABLE IV-A.—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 rates per 1,000 births.
		Male.	Fe- male.	Total.		
September, 1917:						
Panama.....	61,369	137	114	251	44	175.30
Colon.....	26,078	44	45	89	18	202.25
Canal Zone.....	¹ 24,038	37	24	61	11	180.33
Total.....	111,485	218	183	401	73	182.04
August, 1917:						
Panama.....	61,369	120	105	225	54	240.00
Colon.....	26,078	36	41	77	25	324.68
Canal Zone.....	¹ 24,038	24	23	47	8	170.21
Total.....	111,485	180	169	349	87	249.28
September, 1916:						
Panama.....	60,778	161	116	277	59	213.00
Colon.....	24,693	37	28	65	23	353.84
Canal Zone.....	31,048	28	24	52	14	269.23
Total.....	116,519	226	168	394	96	243.65

¹ Exclusive of military forces.

INFANT-WELFARE WORK—PANAMA CITY.

Station work:	
Total number of babies seen.....	210
Instructions given to mothers, total cases.....	173
Treatments given to babies, total cases.....	60
Histories taken.....	38
Examinations made.....	291
Outside work:	
Total number of visits made.....	1,267
Number of cases not located.....	32
Number of cases moved to Colon and interior of Panama.....	50
General:	
Number of breast-fed babies.....	210
Number of bottle-fed babies.....	27
Number of breast and bottle fed babies.....	85
Number of babies on soft diet.....	5
Total number of babies seen.....	1,477
Number of destitute cases given assistance (by Red Cross).....	3
Number of cases admitted to hospital.....	10
Number of cases treated at Santo Tomas dispensary.....	19
Number of cases treated by physician at station.....	30
Defective conditions found:	
Skin rash.....	9
Whooping cough.....	2
Number of babies died.....	11

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES, ARRANGED WITH

Cause of death.	Color.		Age (in years).							
	W.	B.	15-20	21-25	26-30	31-35	36-40	41-45	46-50	56-65
Abscess of liver.....		1					1			
Abscess of spleen.....		1				1				
Apoplexy, cerebral hemorrhage.....		3		1					2	
Gastroenteritis, chronic.....		1			1					
Heart, organic disease of.....	1	1						1	1	
Nephritis, chronic.....	1	1								2
Pneumonia, lobar.....		2			1	1				
Sarcomatosis, general.....	1								1	
Stricture of urethra.....		1		1						
Syphilis.....		2				1		1		
Tuberculosis of the lungs.....		2				1	1			
Rheumatism, acute articular.....		1				1				
External causes:										
Drowning, accidental.....	3	1	1			1	1	1		
Fracture of base of skull.....	1			1						
Total.....	7	17	1	3	2	6	3	3	4	2

REFERENCE TO AGE AND LENGTH OF RESIDENCE ON ISTHMUS.

Length of residence on Isthmus (in years).												Un- known.	Total.
-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-10	10-12	12-15	+15		
					1					1			1
													1
1				2			1						3
													1
						1			1				2
								1		1			2
								1	1				2
										1			1
											1		1
				1					1				2
								1	1				2
												1	1
1			1									2	4
				1									1
2			1	4	1	1	1	3	4	3	1	3	24

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES
PLACE OF

Cause of death.	Sex.		Color.			Age (in years).		
	M.	F.	W.	B.	Y.	—1 year.	1-4	5-10
<i>General diseases.</i>								
Typhoid fever.....		1	1					
Malaria.....		1	1					
Malarial fever, estivo-autumnal.....	2	3	2	3		1	3	
Diphtheria and croup.....	1			1			1	
Dysentery, entamebic.....	1			1				
Pyemia.....	1			1		1		
Septicemia.....	1		1			1		
Tetanus.....	1			1				
Pellagra.....		3		3				
Tuberculosis of the lungs.....	23	12	2	33		2		
Acute miliary tuberculosis.....	2	1		3		1	1	
Tuberculous meningitis.....	3			3		3		
Disseminated tuberculosis.....		2		2				
Syphilis, tertiary.....	2			2				
Syphilis, hereditary.....	1		1			1		
Cancer and other malignant tumors of the buccal cavity.....	1			1				
Cancer and other malignant tumors of the peritoneum, intestines, rectum, etc.	1	1		2				
Cancer and other malignant tumors of other organs and of organs not specified.....	1		1					
Acute articular rheumatism.....	1			1				
Anemia, chlorosis.....		1		1				
Anemia, primary, pernicious.....		1		1				
Alcoholism, chronic.....	1				1			
<i>Diseases of the nervous system and of the organs of special sense.</i>								
Simple meningitis.....	1			1		1		
Cerebrospinal fever.....		2		2			2	
Cerebral hemorrhage, apoplexy.....	5			5				
Paralysis without specified cause.....	1	1		2				
General paralysis of the insane.....	2			2				
Other forms of mental alienation.....		1		1				
Convulsions of infants (under 5 years).....	1			1		1		
<i>Diseases of the circulatory system.</i>								
Acute endocarditis.....	2			2			2	
Organic diseases of the heart.....	9	4	3	10		1		
Embolism and thrombosis.....		2		2				
<i>Diseases of the respiratory system.</i>								
Acute bronchitis.....	2	5		7		2	5	
Chronic bronchitis.....	3	1		4		1	2	
Broncho-pneumonia.....	3	3		5	1	5	1	
Pneumonia (unqualified).....		1	1				1	
Lobar pneumonia.....	3	3		6			2	

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

Age (in years)—Continued.							Place of residence.			Total.
11-20	21-30	31-40	41-50	51-60	61-75	76-100	Panama.	Colon.	Canal Zone.	
			1						1	1
			1				1			1
	1						4	1		5
							1			1
		1					1			1
									1	1
							1			1
		1						1		1
	2		1				2	1		3
3	7	10	6	6	1		25	9	1	35
	1						2		1	3
							3			3
	1	1					1	1		2
		1	1				1	1		2
							1			1
				1			1			1
		1				1	2			2
			1						1	1
		1					1			1
				1			1			1
			1					1		1
							1			1
	1	1	2		1	1	1	4		5
		1			1	1	2			2
		1					1		1	2
		1							1	1
									1	1
	1	2	4	2	2	1	2	8	2	2
		2					3		1	13
							1			2
							4	1	2	7
1							1	3		4
							4	2		6
							1			1
	1	2		1			2	3	1	6

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOYEES
PLACE OF RESI-

Cause of death.	Sex.		Color.			Age (in years).		
	M.	F.	W.	B.	Y.	—1 year.	1-4	5-10
<i>Diseases of the digestive system.</i>								
Diseases of the mouth and annexa.....		1		1			1	
Acute gastritis.....	1			1		1		
Acute indigestion.....	1			1		1		
Diarrhea and enteritis (under 2 years)...	13	15	2	26		25	3	
Colitis.....		1		1		1		
Diarrhea and enteritis (2 years and over)	1			1				
Colitis.....	1			1				1
Acute appendicitis.....	1				1			
Intestinal obstruction.....	1			1		1		
Duodenal ulcer.....		1		1		1		
Cirrhosis of the liver.....	1	1		2				
Abscess of the liver, entamebic.....	1			1				
Abscess of spleen.....	2			2				
Simple peritonitis (nonpuerperal).....	1	3	1	3				
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>								
Acute nephritis.....	1		1			1		
Bright's disease (chronic nephritis)....	9	2	3	8			1	
Pyelo-nephrosis.....	1			1				
Stricture of the urethra, nonvenereal....	1			1				
Uterine tumor (noncancerous).....		1	1					
Other diseases of the uterus.....		1	1					
<i>The puerperal state.</i>								
Puerperal septicemia.....		1		1				
Puerperal albuminuria.....		1		1				
<i>Diseases of early infancy.</i>								
Congenital debility, icterus, and sclerema.....	1	1		2		2		
Premature birth.....	1	3		4		4		
Malnutrition.....	6	2		8		8		
Other causes peculiar to early infancy..	4	3	1	6		7		
<i>Old age.</i>								
Senility.....		1	1					
<i>Affections produced by external causes.</i>								
Suicide by asphyxia.....	1		1					
Suicide by firearms.....	2		2					
Other acute poisonings.....		1		1				
Burns (conflagration excepted).....	1			1			1	
Accidental drowning.....	6		4	2				
Traumatism by cutting or piercing instruments.....	1			1				
Traumatism by fall.....	1		1					
Fractures (cause not specified).....	1			1				
Total.....	136	88	32	189	3	73	26	1
Stillbirths.....	21	22	7	36				
Grand total.....	157	110	39	225	3	73	26	1

TABLE VI-A.—DEATHS OF NONRESIDENTS.¹

Residence.	Nationality	Color.	Sex.	Age.	Cause of death.
David, Republic of Panama.	Panama.....	Black...	Male....	22	Pulmonary tuberculosis.
Do.....	do.....	do.....	do.....	36	Cardiac insufficiency.
Australia.....	British.....	White...	do.....	21	Pyemia.
Porto Bello, Republic of Panama.	Panama.....	Black...	do.....	52	Miliary tuberculosis.
Chiman, Republic of Panama.	do.....	White...	do.....	40	Acute nephritis.
S. S. Huasco.....	Chile.....	do.....	do.....	22	Accidental drowning.
Taboga, Republic of Panama.	Panama.....	Black...	do.....	22	Pulmonary tuberculosis.
Sona, Republic of Panama.	do.....	do.....	Female .	45	Cancer of the uterus.
Interior of Panama.	do.....	do.....	Male....	32	Malaria.
David, Republic of Panama.	do.....	White...	Female .	55	Myocarditis.

¹ Deaths of nonresidents are not included in the statistical charts relating to the Canal Zone or the cities of Panama and Colon.

TABLE VII.—DISCHARGES AND DEATHS IN

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>General diseases.</i>												
Typhoid fever.....												
Malarial fever:												
Estivo-autumna ¹	2		5		35	1						
Tertian.....	2				7							
Quartan.....					2							
Undetermined.....					6							
Measles.....	1				2							
Whooping cough.....												
Diphtheria and croup.....		2			1							
Influenza.....	5	2	1		12							
Dysentery, entamebic.....	1											
Leprosy.....					1							
Dengue.....	1											
Chicken pox.....					4							
German measles.....					5							
Mumps.....			1		2							
Pyemia.....												
Pellagra.....					2							
Tuberculosis of the lungs.....			1		7						4	
Pott's disease.....												
Tuberculosis of other organs.....					1							
Tuberculosis of the lymph glands.....												
Disseminated tuberculosis.....												
Syphilis:												
Secondary.....	1				6							
Tertiary.....					25						2	
Period not stated.....					1							
Gonorrhea.....	3				11							
Gonorrheal orchitis and epididymitis.....					1							
Soft chancre.....	2				8							
Adenitis chancroidal.....	1		1		3							
Cancer and other malignant tumors of other organs and of organs not specified.....							1					
Other tumors (tumors of the female genital organs excepted).....	1				2							
Other general diseases.....	1		2									
Alcoholism, acute.....			2		1							

¹ American.

THE HOSPITALS OF THE PANAMA CANAL.

Nonemployees.												Nonresidents.										Total discharges.	Total deaths.
Discharges.						Deaths.						Discharges.				Deaths.							
White.				Black.		White.				Black.		White.		Black.		White.		Black.					
Soldiers.	Others.					Soldiers.	Others.																
A. ¹	P. R. ²	M.	F.	M.	F.	A. ¹	P. R. ²	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
...	...	1	...	1	2	...	...	...	1	...	...	...	...	...	...	...	...	...	...	4	1		
7	...	4	4	5	13	...	...	...	1	1	...	2	...	...	...	...	...	...	...	78	2		
1	...	3	1	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...		
...	...	3	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	...		
2	1	12	14	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	33	...		
...	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...		
...	...	7	3	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19	...		
5	...	...	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...		
1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	3	...		
...	...	2	2	2	...	...	...	...	...	...	...	4	...	...	...	...	...	...	...	2	...		
1	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...		
...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...		
...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2		
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	2		
2	2	1	...	1	2	...	...	...	...	...	1	1	...	...	...	...	...	...	...	17	5		
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...		
...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...		
1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	2	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1		
1	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	...		
2	1	...	1	4	1	...	...	...	...	...	...	4	...	...	...	...	...	...	...	38	2		
2	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	6	...		
14	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2		
8	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	24	...		
5	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	12	...		
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1		
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...		
...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...		
...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	...		

² Porto Rican.

HOSPITALS OF THE PANAMA CANAL—Continued.

[illegible]

TABLE VII.—DISCHARGES AND DEATHS IN THE

Diseases.	Employees.											
	Discharges.						Deaths.					
	White.				Black.	White.				Black.		
	Americans.		Europeans.			Americans.		Europeans.				
	M.	F.	M.	F.		M.	F.	M.	F.			
<i>X.—Malformations.</i>												
Congenital malformations (still-birth not included).....					1							
<i>XI.—Diseases of early infancy.</i>												
Newborn child.....												
Malnutrition.....												
Other causes peculiar to early infancy (including various consequences of labor).....												
<i>Affections produced by external causes.</i>												
Poisoning by food.....	2				1							
Other acute poisonings.....												
Venomous bites and stings.....					1							
Burns (conflagration excepted).....	1		1		4							
Traumatism by firearms.....					2							
Traumatism by cutting or piercing instruments.....			1		14							
Traumatism by fall.....	2		2		4		1					
Traumatism by machines.....					2							
Traumatism by other crushings (vehicles, railroads, landslides, etc.).....					1							
Railroad traumatism.....					1							
Injuries by animals.....					1							
Fractures (cause not specified).....	2				4							
Dislocations.....					1							
Sprains.....					2							
Other external violence.....	3		1		34							
<i>Ill-defined diseases.</i>												
Infections of undetermined origin.....	2				5							
No disease.....	2				2							
Grand total.....	81	12	32	1	327	3	4				13	

HOSPITALS OF THE PANAMA CANAL—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.					
A.	P. R.	M.	F.	M.	F.	A.	P. R.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
		1		1																		3			
		12	5	8	4					3												29			
			1																			1	3		
											1												1		
1																						4			
			1																			1			
		2		1				1				1		1								11	1		
1	1																					4			
1		1																				17			
			1	1	2																	12	1		
																						2			
	1			1																		3			
				1																		2			
1																						2			
5					1																	12			
2																						3			
2																						4			
7				1	1							3										50			
1				1	2					1												13	1		
3		1	6	2	11							2	1									30			
181	14	86	141	58	138			2	4	12	10	48	3	1	1	1						1127	46		

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT.

[A=White Americans; F=White foreign; B=Blacks.]

	Remaining Sept. 1.			Admitted.			Died.			Dis- charged.		
	A.	F.	B.	A.	F.	B.	A.	F.	B.	A.	F.	B.
ANCON HOSPITAL.												
Panama Canal employees.....	16	8	103	58	11	145	2	...	9	56	7	141
Panama R. R. employees.....	8	12	104	6	14	148	...	...	3	8	16	147
Soldiers.....	85	...	...	185	...	...	...	...	...	190	...	...
Panama pay patients.....	...	...	1	...	...	...	...	...	...	...	...	...
Other pay patients.....	31	27	83	117	55	167	2	2	15	112	49	138
Charity patients.....	25	8	21	53	11	36	...	...	1	59	12	35
Total.....	165	55	312	419	91	496	4	2	28	425	84	461
COROZAL HOSPITAL.												
Panama Canal employees.....	...	1	6	...	...	...	...	...	...	...	...	...
Panama R. R. employees.....	...	...	1	...	...	1	...	...	...	...	...	1
Soldiers.....	2	...	...	3	...	...	...	...	...	2	...	...
Panama pay patients.....	4	48	204	...	2	2	...	...	3	...	1	1
Other pay patients.....	1	6	3	...	1	1	...	...	2	1	3	1
Charity patients.....	2	7	71	...	1	1	...	...	...	2	...	...
Total.....	9	62	285	3	4	5	...	...	5	5	4	3
Grand total.....	174	117	597	422	95	501	4	2	33	430	88	464
COROZAL FARM (CRIPPLES).												
Panama Canal employees.....	...	9	50	...	...	4	...	...	...	...	...	2
CHRONIC WARD.												
Charity patients.....	...	...	32	...	...	4	...	...	...	...	...	1
COLON HOSPITAL.												
Panama Canal employees.....	4	1	12	21	2	29	2	...	1	17	1	23
Panama R. R. employees.....	4	4	12	13	8	30	...	...	...	12	9	18
Soldiers.....	...	...	...	4	...	...	...	...	...	3	...	...
Panama pay patients.....	...	1	2	...	5	7	...	2	1	...	...	1
Other pay patients.....	10	10	3	21	23	25	...	1	...	19	16	16
Charity patients.....	1	...	...	2	...	2	...	...	...	1	...	1
Total.....	19	16	29	61	38	93	2	3	2	52	26	59
PALO SECO LEPER ASYLUM.												
Panama pay patients.....	...	2	37	...	...	1	...	...	...	...	1	...
Charity patients.....	...	1	27	...	...	1	...	...	...	...	...	...
Total.....	...	3	64	...	...	2	...	...	...	...	1	...
GRAND TOTAL.												
Panama Canal employees.....	20	19	171	79	13	178	4	...	10	73	8	166
Panama R. R. employees.....	12	16	117	19	22	179	...	...	3	20	25	166
Soldiers.....	87	...	...	192	...	...	...	...	...	195	...	...
Panama pay patients.....	4	51	244	...	7	10	...	2	4	...	2	2
Other pay patients.....	42	43	89	138	79	193	2	3	17	132	68	155
Charity patients.....	28	16	151	55	12	44	...	...	1	62	12	37
Total.....	193	145	772	483	133	604	6	5	35	482	115	526

TABLE VIII.—CONSOLIDATED HOSPITAL REPORT—Continued.

[A=White Americans; F=White foreign; B=Blacks.]

	Transferred.			Remain- ing Sept. 30.			Average number con- stantly sick.			
	A.	F.	B.	A.	F.	B.	A.	F.	B.	Total.
ANCON HOSPITAL.										
Panama Canal employees.....			1	16	12	97	14.60	10.37	97.10	122.07
Panama R. R. employees.....			6	6	10	96	7.23	12.60	100.34	120.17
Soldiers.....	5			75			81.37			81.37
Panama pay patients.....			1						.17	.17
Other pay patients.....			1	34	31	96	33.87	34.20	91.26	159.33
Charity patients.....		1	2	19	6	9	25.50	7.96	17.37	50.83
Total.....	5	1	11	150	59	308	162.57	65.13	306.24	533.94
COROZAL HOSPITAL.										
Panama Canal employees.....					1	6		1.00	6.00	7.00
Panama R. R. employees.....						1			1.27	1.27
Soldiers.....				3			2.77			2.77
Panama pay patients.....				4	49	202	4.00	49.03	203.33	256.36
Other pay patients.....					4	1	.67	5.33	3.17	9.17
Charity patients.....					8	72	.93	7.03	71.90	79.86
Total.....				7	62	282	8.37	62.39	285.67	356.43
Grand total.....	5	1	11	157	121	590	170.94	127.52	591.90	890.36
COROZAL FARM (CRIPPLES).										
Panama Canal employees.....					9	52		9.00	52.73	61.73
CHRONIC WARD.										
Charity patients.....			3			32			33.33	33.33
COLON HOSPITAL.										
Panama Canal employees.....	3		11	3	2	6	3.70	.70	6.50	10.90
Panama R. R. employees.....	1	1	10	4	2	14	3.93	3.36	11.24	18.53
Soldiers.....	1						.16			.16
Panama pay patients.....		3	5		1	2		.33	.50	.83
Other pay patients.....	2	7	7	10	9	5	9.36	8.60	5.70	23.66
Charity patients.....			1	2			.46		.20	.66
Total.....	7	11	34	19	14	27	17.61	12.99	24.14	54.74
PALO SECO LEPER ASYLUM.										
Panama pay patients.....					1	38		1.33	37.13	38.46
Charity patients.....					1	28		1.00	27.10	28.10
Total.....					2	66		2.33	64.23	66.56
GRAND TOTAL.										
Panama Canal employees.....	3		12	19	24	161	18.30	21.07	162.33	201.70
Panama R. R. employees.....	1	1	16	10	12	111	11.16	15.96	112.85	139.97
Soldiers.....	6			78			84.30			84.30
Panama pay patients.....		3	6	44	51	242	4.00	50.69	241.13	295.82
Other pay patients.....	2	7	8	24	44	102	43.90	48.13	100.13	192.16
Charity patients.....		1	6	1	15	151	26.89	15.99	149.90	192.78
Total.....	12	12	48	176	146	767	188.55	151.84	766.34	1,106.73

Number of employees remaining in hospitals:

White.....	65
Black.....	272

Total.....	337
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TABLE IX.—CONSOLIDATED DISPENSARY REPORT.
EMPLOYEES TREATED IN QUARTERS.

	Re- main- ing Sept. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Sept. 30.		Days lost.		
	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	W.	B.	Total.
Ancon.....			71				71						133		133
Balboa.....	5		130	8			125	2	2	6	8		323	13	336
Pedro Miguel.	1		8				7		2				26		26
Paraiso.....			4	26			4	23		2		1	9	50	59
Gamboa.....			1						1				1		1
Gatun.....	2		6	3			7	2	1	1			43	11	54
Colon.....	7	37	73	226			77	236			3	27	232	847	1,079
Total..	15	37	293	263			291	263	6	9	11	28	767	921	1,688

ALL CASES TREATED BUT NOT EXCUSED.

	Employees.			Nonemployees..			Total.		
	W.	B.	Total.	W.	B.	Total.	W.	B.	Total.
Ancon.....	1,194	4,449	5,643	1,153	3,668	4,821	2,347	8,117	10,464
Balboa.....	3,828	3,511	7,339	4,524	1,094	5,618	8,352	4,605	12,957
Pedro Miguel....	1,408	1,846	3,254	1,074	681	1,755	2,482	2,527	5,009
Paraiso.....	872	2,242	3,114	831	856	1,687	1,703	3,098	4,801
Gamboa.....	81	310	391	35	240	275	116	550	666
Gatun.....	201	1,146	1,347	471	757	1,228	672	1,903	2,575
Colon.....	2,395	6,600	8,995	1,718	2,582	4,300	4,113	9,182	13,295
Total.....	9,979	20,104	30,083	9,806	9,878	19,684	19,785	29,982	49,767

TABLE IX-A.—CONSOLIDATED HOSPITAL REPORT.

	White.	Black.	Total.
Admissions to hospitals, excluding Corozal farm and chronic ward.....	616	600	1,216
Admissions of employees to quarters.....	293	263	556
Total admissions to hospitals and quarters....	909	863	1,772
Less number of patients transferred between hospitals, and from hospitals to quarters.....	24	45	69
Net admissions to hospitals and quarters.....	885	818	1,703
EMPLOYEES.			
Employees admitted to hospitals.....	133	353	486
Employees admitted to quarters.....	293	263	556
Total admissions of employees.....	426	616	1,042
Less number transferred between hospitals, and from hospitals to quarters, whose admissions are duplicated in above figures.....	11	34	45
Net admissions of employees.....	415	582	997
Annual average per thousand of admission of employees to hospitals and quarters.....	1,036.85	263.50	382.15

TABLE IX-B.—CONTAGIOUS AND INFECTIOUS DISEASES REPORTED DURING THE MONTH.

	Pana- ma.	Colon.	Canal Zone.	Nonresi- dent.	Total.
Beriberi.....	2	1			3
Cancer.....	2				2
Chicken pox.....	9	4	6		19
Diphtheria.....	11	7	15		33
Dysentery.....	1		1		2
Gonococcus infection.....		44	69	4	117
Hookworm.....			1		1
Leprosy.....				2	2
Malarial fever.....	18	30	87	4	139
Measles.....	1	7	19		27
German measles.....			3		3
Meningitis, epidemic, cerebro-spinal.....	1				1
Meningitis, tuberculous.....	3				3
Mumps.....		3	1	1	5
Pellagra.....	2				2
Pneumonia, acute.....	7	1			8
Scarlet fever.....	3				3
Syphilis.....		4	36		40
Tuberculosis.....	26	3	6	3	38
Typhoid.....	1				1
Whooping cough.....	11	3	14		28

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

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	45.80	204.71	250.51
Colon Hospital.....	11.69	17.74	29.43
Total.....	57.49	222.45	279.94
Quarters:			
Ancon.....	4.43		4.43
Balboa.....	10.77	.43	11.20
Pedro Miguel.....	1.17		1.17
Paraiso.....	.30	1.67	1.97
Gamboa.....	.03		.03
Gatun.....	1.43	.37	1.80
Cristobal.....	7.73	28.23	35.96
Total.....	25.86	30.70	56.56
	Hospi- tals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	57.49	25.86	83.35
Black.....	222.45	30.70	253.15
Total.....	279.94	56.56	336.50
Average number of employees constantly sick per 1,000:			
White.....	11.97	5.38	17.35
Black.....	8.39	1.16	9.55
Total.....	8.94	1.81	10.75

TABLE X-A.—AVERAGE NUMBER OF DAYS IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Black.	Total.
Hospitals:			
Ancon Hospital.....	11.21	19.19	17.41
Colon Hospital.....	8.83	7.95	8.32
Quarters:			
Ancon.....	1.87	.....	1.87
Balboa.....	2.45	1.62	2.40
Pedro Miguel.....	3.89	.....	3.89
Paraiso.....	2.25	2.00	2.03
Gamboa.....	1.00	.....	1.00
Gatun.....	5.62	3.67	5.09
Cristobal.....	3.08	4.57	4.20

TABLE XI.—DEATH RATES AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Annual death rate per 1,000.
White employees from the United States:	
Disease.....	8.81
External causes.....	8.81
Total.....	17.62
White women and children from the United States:	
Disease.....	2.37
External causes.....	.....
Total.....	2.37
White employees and their families from the United States:	
Disease.....	5.25
External causes.....	3.93
Total.....	9.18

TABLE XII.—FINANCIAL STATEMENT, AUGUST, 1917, DEPARTMENT OF HEALTH.

	August, 1917.	July, 1917.	August, 1916.
Administration, general expenses:			
Chief health office	\$507.71	\$700.92	\$567.28
Construction allotments	661.20	216.70	.....
Stock	¹ 1,962.45	¹ 24.58	.....
Suspense	¹ 175.24	212.36	.....
Reserve for new tools			2,154.69
Total	¹ 968.78	1,105.40	2,721.97
Hospital division:			
Ancon Hospital	37,963.87	35,818.18	28,204.03
Corozal Hospital and farm	7,435.05	9,054.65	6,216.38
Colon Hospital	5,015.95	5,078.66	4,292.20
Palo Seco Leper Asylum	2,395.83	1,915.83	1,665.69
Santo Tomas Hospital	900.56	1,129.67	1,136.48
Medical storehouse	1,070.40	1,167.18	653.16
Total	54,781.66	54,164.17	42,167.94
Sanitary division:			
Chief sanitary inspector	50.00	50.00	50.00
Health office, Panama	5,296.59	3,788.34	3,654.55
Street cleaning, Panama	4,307.45	4,390.73	4,290.43
Health office, Colon	3,185.06	3,214.41	2,987.65
Street cleaning, Colon	2,380.07	1,994.62	2,175.90
Zone sanitation	11,909.65	8,472.34	16,138.02
Total	27,128.82	21,910.44	29,296.55
Dispensaries	3,774.13	4,201.56	2,935.30
Quarantine division	5,137.53	5,356.63	5,464.46
RECAPITULATION.			
Administration, general expenses	¹ 968.78	1,105.40	2,721.97
Hospital division	54,781.66	54,164.17	42,167.94
Sanitary division	27,128.82	21,910.44	29,296.55
Dispensaries	3,774.13	4,201.56	2,935.30
Quarantine division	5,137.53	5,356.63	5,464.46
Total	89,853.36	86,738.20	82,586.22

¹ Credit.

TABLE XIII.—ANCON HOSPITAL.
REPORT OF DAYS LOST IN HOSPITAL.

	American	Foreign.	Black.	Total.
Hospital:				
Panama Canal employees.....	438	311	2,913	3,662
Panama Railroad employees.....	217	378	3,010	3,605
Army and Navy.....	2,441	.....	.....	2,441
Panama Government pay cases.....	.....	.....	5	5
Other pay cases.....	1,016	1,026	2,738	4,780
Charity cases.....	765	259	521	1,525
Total.....	4,877	1,954	9,187	16,018
Asylum:				
Panama Canal employees.....	.....	50	180	210
Panama Railroad employees.....	.....	.....	38	38
Army and Navy.....	85	.....	.....	83
Panama Government pay cases.....	120	1,471	6,100	7,691
Other pay cases.....	20	160	95	275
Charity cases.....	28	211	2,157	2,396
Total.....	251	1,872	8,570	10,693
Chronics.....	.....	.....	1,000	1,000
Cripples.....	.....	270	1,562	1,852
Grand total.....	5,128	4,096	20,339	29,563

Non-residents, hospital..... 406
 Non-residents, asylum..... 1,867
 Average cost of subsistence per patient per day, \$0.3462.

WARD LABORATORY REPORT.

Blood examinations (total number).....	660
Estivoautumnal.....	41
Quartan.....	2
Tertian.....	13
Differential counts.....	24
Hemoglobin estimations.....	183
Leucocyte counts.....	120
Red blood counts.....	2
Stool examinations (total number).....	699
Ameba.....	3
Ascaris lumbricoides.....	13
Balantidium coli.....	2
Ciliated monads.....	2
Entameba (hystolitica and tetragena).....	2
Guaiac tests.....	6
Pus and blood.....	44
Strongyloides.....	36
Tricocephalus dispar.....	29
Uncinaria (ova).....	70
Urine examinations (total number).....	2,138
Albumen.....	446
Bile.....	23
Casts.....	380
Ciliated monads.....	2
Epithelia.....	819
Guaiac tests.....	84
Indican.....	250
Pus and blood.....	944
Sugar (positive 7, negative 698).....	705

TABLE XIII.—ANCON HOSPITAL—Continued.

Sputum examinations (total number).....	149
Positive for tuberculosis.....	26
Smear examinations (total number).....	63
Urethral.....	56
Vaginal.....	11
Eye.....	2
Spinal fluid.....	8
Pleuric.....	

SURGICAL OPERATIONS PERFORMED DURING THE MONTH.

	Number.	Died.
Amputations:		
Digits, multiple.....	1	.....
Operations on bones:		
Osteotomy.....	1	.....
Wiring of fractures, single.....	5	.....
Adenectomy:		
Cervical.....	1	.....
Inguinal, single.....	22	.....
Inguinal, double.....	9	.....
Herniotomy:		
Inguinal, single.....	10	.....
Inguinal, double.....	7	.....
Ventral.....	1	.....
Genito-urinary tract:		
Urethrotomy, external.....	2	1
Varicocele, radical cure.....	2	.....
Hydrocele, single, radical cure.....	5	.....
Epididymotomy.....	8	.....
Amputation of scrotum.....	2	.....
Curettage uteri.....	10	.....
Perineoplasty.....	1	.....
Obstetrical:		
High forceps.....	1	.....
Low forceps.....	2	.....
Rectum:		
Hemorrhoids, radical cure.....	16	.....
Fistula in ano, excision of.....	1	.....
General:		
Thyroidectomy.....	1	.....
Excision of varicose veins.....	2	.....
Tenorrhaphy.....	1	.....
Laparotomy:		
For general peritonitis.....	1	.....
For intestinal obstruction.....	1	.....
Gastro-enterostomy.....	1	.....
Appendectomy.....	11	.....
Appendectomy with local peritonitis.....	2	.....
Supravaginal hysterectomy.....	8	1
Hysteromyomectomy.....	3	1
Myomectomy.....	1	.....
Salpingo-oophorectomy.....	4	.....
Ovarian cystectomy.....	2	.....
Suspensio-uteri.....	9	.....
Major operations, various.....	5	.....
Minor operations.....	225	1
	384	3

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF OPERATIONS, EYE AND EAR CLINIC.

Tonsillectomy.....	23
Adenoidectomy.....	13
Submucous resection.....	14
Pterygium.....	4
Turbinectomy.....	4
Cataract extraction.....	2
Minor operations.....	8
Total.....	68
Refractions.....	85

REPORT OF OUT-PATIENT DEPARTMENT.

Clinic.	Total visits.	New cases.	Pay cases.	Pre-scriptions.
Medical.....	232	163	40	177
Surgical.....	301	138	6	43
Eye and ear.....	550	204	.....	42
Total.....	1,083	505	46	262

VACCINATIONS DURING THE MONTH.

Number of adults vaccinated.....	135
Number of "takes".....	48
Number of school children vaccinated.....	9
Number of "takes".....	4

MONTHLY REPORT OF BOARD OF HEALTH LABORATORY.

Bacteriological examinations of:

Blood cultures (2 positive, <i>B. typhosus</i> —1 new and 1 relapse; 1 <i>staphylococcus aureus</i>).....	25
Throat cultures (31 positive for <i>B. diphtheria</i> ; 57 positive repeaters).....	341
Nasal cultures (4 positive for <i>B. diphtheria</i>).....	16
Stools (58 from Corozal Hospital).....	80
Urine (9 <i>B. coli</i> , 1 <i>streptococcus</i> , 1 <i>staphylococcus albus</i>).....	43
Autopsies cultures from.....	4
Spinal fluids (1 <i>meningococcus</i>).....	9
Inguinal gland culture.....	1
Smears, various.....	9
Milk from Corozal Hospital farm dairy.....	1
Bacterial counts of milk (29 Corozal farm and 7 Panama health office)....	36
Steer's spleen culture (positive for <i>B. anthrax</i>), Colon health office.....	1
Sputums (9 positive, <i>B. tuberculosis</i> from Panama), all from Panama.....	18
Lemon soda.....	1

Chemical examinations of:

Dairy milk from Corozal farm.....	3
Dairy milk from Panama.....	8
Urine.....	39
Water, for salt determination.....	3
Hide disinfectant (Panama health office).....	1
Hide poison (Panama health office).....	1
Rum (rou-claros).....	1
Oil, petroleum.....	1
Substance for identification (sanitary inspector, Ancon).....	1
Corn meal.....	1

TABLE XIII.—ANCON HOSPITAL—Continued.

Chemical examinations of—Continued.

Beverages—	
Cocktail bitter.....	1
Kola wine.....	1
Peppermint.....	1
Blackberry wine.....	1
Spanish port.....	1
Vermouth.....	1
Pathological tissues prepared, paraffin (2 frozen).....	423
Autopsies performed.....	29
Tissues reported, surgical.....	44
Autopsies, animal, performed (calves, 4; hogs, 3; horse, 1; goat, 1; dog, 1; monkey, 1; deer, 1; kinkajou, 1).....	13
Placental films.....	34
Films, gonococcus (eye, 3; vagina, 1; urethra, 1).....	5
Leprosy (3 positive).....	4
Blood film, malaria.....	1
Skin lesions examined.....	1
Animal inoculations.....	3
Cattle blood films.....	4
Horse blood films.....	24
Dog blood films.....	10
Dog under observation.....	1
Rats examined (<i>Mus musculus</i> , 971; <i>Mus norvegicus</i> , 356; <i>Mus alexandrinus</i> , 15; <i>Mus rattus</i> , 225).....	1,566
Undertaker:	
Bodies embalmed.....	10
Interments at Corozal.....	21
Shipped to the United States.....	8
Shipped to Gatun.....	1
Shipped to Colon.....	2
Taken to Panama.....	4
Cremations.....	21
General:	
Wassermann reactions.....	1,007
Agglutination reactions.....	5
Autogenous vaccines prepared.....	4
Antityphoid vaccine administered.....	1
Dark-field examination.....	1

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

COMMITMENTS.

	Male.	Female.
From Canal Zone, first admission.....	5	2
From Panama Government, first admission.....	1	13

¹ One case has been transferred to Ancon Hospital for surgical treatment.

TABLE XIII.—ANCON HOSPITAL—Continued.

COROZAL HOSPITAL—Continued.

DISCHARGES.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Barbados.....	1					
Colombia.....		1				
France.....		1				
Martinique.....				1		
Norway.....			1	1		
Philippines.....			1	1		
Spain.....			1	1		
United States.....			1	2	1	2
	1	2	5	2	2	

¹ Eight patients deported to United States.

DEATHS.

Medical diagnosis.	Mental diagnosis.	Male.	Female.
General paralysis of the insane..	General paralysis of the insane..	1	
Pyonephritis.....	Senile dementia.....	1	
Disseminated tuberculosis.....	Infection-exhaustion psychosis..		1
Degenerative encephalitis.....	Organic brain disease.....		1
General paralysis of the insane..	General paralysis of the insane..	1	

TABLE XIV.—COLON HOSPITAL.

REPORT OF DAYS LOST IN HOSPITAL.

Class.	Ameri- can.	For- eign.	Black.	Total.
Panama Canal employees.....	111	21	195	327
Panama Railroad employees.....	118	101	337	556
Panama Government pay patients.....		10	15	25
Soldiers.....	5			5
Other pay patients.....	281	258	171	710
Charity patients.....	14		6	20
	529	390	724	1,643

TABLE XIV.—COLON HOSPITAL—Continued.

LABORATORY REPORT, SEPTEMBER.

Blood examinations.....	293
Estivo-autumnal.....	57
Tertian.....	9
Red blood counts.....	4
White blood counts.....	17
Differential counts.....	5
Hemoglobin.....	9
Stool examinations.....	44
Strongyloides.....	15
Pus.....	16
Ciliated monads.....	5
Red blood cells.....	5
Uncinaria.....	2
Urine examinations.....	355
Albumen.....	42
Casts.....	30
Red blood cells.....	3
Pus.....	75
Sputum examinations.....	27
Positive for tubercle bacilli.....	2
Smear examinations.....	11
Positive for gonococci.....	2
Autopsies.....	6

SURGICAL OPERATIONS, SEPTEMBER.

Operations of bones:	
Radical cure, hallux valgus, bilateral.....	1
Herniotomy:	
Inguinal, signal.....	2
Inguinal, double.....	1
Strangulated.....	1
Obstetrical:	
Perineorrhaphy.....	1
Rectum:	
Hemorrhoids, radical cure.....	2
General:	
Stab wound of soft parts, operation for.....	1
Laparotomy:	
Appendectomy.....	2
Minor operations, various.....	8
Minor operations, various (dispensary).....	156
Deliveries.....	2

TABLE XV.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing Sept. 1.	Ad- mitted.	Died.	Dis- charged.	Remain- ing Sept. 30.
Pay patients.....	27	98	2	83	40
Charity patients.....	416	715	76	641	414
Total.....	443	813	78	724	454

Class.	Number treated.	Americans.		Other nations.	
		White.	Black.	White.	Black.
Pay patients.....	125	1	0	48	76
Charity patients.....	1,131	4	0	134	993
Total.....	1,256	5	0	182	1,069

Number of days relief furnished patients.....	13,648
Average number of patients constantly sick.....	440
Average number of days treatment for each patient admitted.....	10
Cost of subsistence per patient per day.....	\$0.56

DISPENSARY REPORT.

Class.	White.	Black.	Total.
Natives treated.....	12	921	933
Foreigners treated.....	21	299	320
Total.....	33	1,220	1,253

DISEASES TREATED.

Malarial fever.....	58
Diphtheria and croup.....	8
Influenza.....	9
Dysentery.....	4
Erysipelas.....	1
Other epidemic diseases.....	5
Purulent infection and septicemia.....	6
Beriberi.....	1
Tuberculosis of the lungs.....	11
Tuberculosis of other organs.....	1
Syphilis.....	29
Soft chancre.....	5
Gonococcus infection.....	36
Cancer and other malignant tumors of the female genital organs.....	1
Cancer and other malignant tumors of the breast.....	1
Cancer and other malignant tumors of other organs and of organs not specified.....	5
Other tumors.....	1
Acute articular rheumatism.....	2
Anemia, chlorosis.....	2
Other general diseases.....	11
Alcoholism, acute or chronic.....	11
Other chronic poisonings.....	1

TABLE XV.—SANTO TOMAS HOSPITAL—Continued.

Paralysis without specified cause.....	2
Other forms of mental alienation.....	4
Epilepsy.....	1
Neuralgia and neuritis.....	1
Trachoma.....	1
Other diseases of the eyes and their annexa.....	15
Organic diseases of the heart.....	14
Diseases of the arteries.....	3
Diseases of the veins.....	2
Diseases of the lymphatic system.....	10
Diseases of the nasal fossae.....	2
Chronic bronchitis.....	4
Broncho-pneumonia.....	1
Pneumonia.....	5
Pleurisy.....	10
Diseases of the pharynx.....	23
Diarrhea and enteritis (under 2 years).....	9
Diarrhea and enteritis (2 years and over).....	15
Ankylostomiasis.....	48
Intestinal parasites.....	13
Appendicitis and typhlitis.....	7
Hernia, intestinal obstructions.....	3
Other diseases of the intestines.....	3
Bright's disease (chronic nephritis).....	11
Diseases of the bladder.....	2
Nonvenereal diseases of the male genital organs.....	9
Uterine tumor (noncancerous).....	4
Metritis.....	20
Other diseases of the uterus.....	3
Salpingitis and other diseases of the female genital organs.....	3
Nonpuerperal diseases of the breast (cancer excepted).....	1
Normal labor.....	75
Accidents of pregnancy.....	25
Puerperal septicemia.....	1
Furuncle.....	1
Acute abscess.....	9
Other diseases of the skin and annexa.....	26
Diseases of the bones.....	3
Diseases of the joints.....	4
Other diseases of the organs of locomotion.....	1
Nurslings discharged from the hospital without disease.....	72
Suicide by poisoning.....	1
Other acute poisonings.....	1
Burns.....	2
Traumatism by cutting or piercing instruments.....	9
Dislocations.....	1
Sprains.....	2
Other external violence.....	11
Ill-defined organic disease.....	1
Diseases not specified or ill-defined.....	2
No disease.....	19
Total discharges during month.....	724
Deaths occurring among patients during the month.....	78
Patients remaining in hospital at end of the month.....	454
Total number of patients treated during the month.....	1,256
SURGICAL OPERATIONS.	
Circumcision.....	10
Adenectomy:	
Cervical.....	3
Inguinal, single.....	12
Inguinal, double.....	1
Herniotomy:	
Inguinal, single.....	5
Femoral.....	1
Ventral.....	2

TABLE XV.—SANTO TOMAS HOSPITAL—Continued.

Urethrotomy:	
Internal	3
External	1
Hydrocele, single, radical cure	2
Curettage uteri	7
Vaginal section	3
Excision of breast	1
Hemorrhoids, radical cure	1
Fistula in anus, excision of	2
Excision of tongue	1
Thyroidectomy	1
Mastoid	2
Tonsillectomy	8
Adenoidectomy	2
Cataract	1
Incision of eye	3
Pterygium	3
Iridectomy	6
Cyst of eyelid	2
Skin graft	17
Appendectomy	9
Cholecystotomy	1
Hysterectomy	3
Supravaginal hysterectomy	2
Salpingectomy:	
Single	2
Double	2
Salpingo-oophorectomy	5
Oophorectomy	1
Suspensio-uteri	4
Major operations, various other	5
Minor operations, various	55
Total	189

LABORATORY REPORT.

Urine examinations	634
Albumen	157
Hyaline casts	40
Granular cases	33
Mucus and pus	62
Blood	8
Epithelium cells	17
Phosphates	11
Sugar	15
Stool examinations	881
Uncinaria	117
Strongyloides	3
Tricocephalus dispar	1
Ascarides	46
Ciliated monads	3
Mucus and pus	7
Ameba	2
Tenia solium	1
Sputum examination	75
Positive for tubercle bacilli	25
Blood examinations	225
Tertian	7
Estivo-autumnal	37
White blood counts	14
Differential counts	2
Wassermann reactions	167
Positive	55
Throat cultures	73
Positive for diphtheria	10
Smears examined	5
Positive for gonococci	1
Blood cultures	4
Widals reactions	13
Surgical tissues	7
Autopsies performed	48

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

	Panama.	Colon.	Canal Zone.
Linear yards of new ditches constructed.....	840	.....	1,640
Linear yards of ditches maintained.....	106,400	510	12,520
Acres of vegetation removed.....	84.91	28	58.5
Cubic yards of garbage removed during month.....	9,863	2,743	¹ 3,790
Square yards of pools oiled.....	306,280	151,435	81,900
Pit closets inspected daily.....	.....	.....	319
Closets disinfected during month.....	.....	.....	441
Water containers treated.....	5,165	80,350	20,900
Containers with stegomyia larvæ found.....	.....	.....	6
Breeding places destroyed (mosquito).....	205	30	27
Fly-breeding places destroyed.....	51	.....	.....
Rats destroyed during month.....	842	516	292
Notices served to abate nuisances.....	212	478	.....
Convictions for violation of Sanitary Code.....	3	.....	.....
Private properties cleaned during month.....	21	5,478	.....
Houses disinfected or fumigated.....	17	.....	24
Number of mosquitoes destroyed in dwellings:			
Anopheles.....	.....	3,630	1,708
Stegomyia.....	.....	.....	15
Culex.....	.....	815	4,427
Culex and mansonla.....	.....	.....	2,577
Inspection of buildings.....	3,783	8,335	5,232
Screening.....	.....	.....	959
Sanitation.....	.....	.....	2,882
Mosquitoes.....	.....	.....	238
Safety.....	.....	.....	3
Buildings—Construction and repair:			
Plans for new buildings approved.....	6	4	.....
Permits issued to repair old buildings.....	81	39	.....
Buildings condemned.....	1	.....	.....
Buildings demolished.....	3	.....	.....
Food inspection:			
Dairies, milk venders, etc.....	14	.....	.....
Bakeries, candy kitchens, ice-cream parlors, etc.....	26	.....	.....
Bottling works, etc.....	2	.....	.....
Hotels, clubs, restaurants, etc.....	20	.....	14
Markets, miscellaneous, etc.....	197	.....	55
Material used during month:			
Crude oil..... gallons..	6,186	1,200	9,246
Larvacide..... do.....	318	314	357
Kerosene..... do.....	257	.....	630

¹ Cans.

TABLE XVII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL FOR THE MONTH OF SEPTEMBER, 1917.

Vessels inspected and passed.....	246
Vessels inspected and held in quarantine.....	12
Vessels passed on medical officer's certificate.....	1
Vessels inspected and transiting canal in quarantine.....	7
Total vessels entered during month.....	266
Supplementary inspections of detained vessels.....	102
Total inspections of vessels during month.....	368
Vessels fumigated on arrival.....	16
Vessels fumigated prior to departure.....	2

TABLE XVII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL—Continued.

Bills of health issued.....	241
Bills of health viséed.....	152
Crew inspected and passed.....	13,751
Passengers inspected and passed.....	3,864
Stowaways found on board of incoming vessels.....	3
Total persons inspected on arrival.....	17,618
Crew passed on medical officer's certificate.....	800
Supplementary inspections of persons on detained vessels.....	1,832
Total persons inspected and passed.....	20,250
Persons vaccinated in port on arrival.....	276
Persons vaccinated in port of departure or en route.....	1,354
Total persons vaccinated.....	1,630
Persons detained at quarantine stations to complete period of incubation of yellow fever and bubonic plague.....	278
Persons detained in quarantine on board vessels.....	1,701
Total persons detained in quarantine.....	1,979
Persons arriving from foreign ports:	
Cabin.....	768
Steerage.....	400
	1,168
Persons arriving from coast towns in small launches and sailing craft.....	1,550
Persons departing for coast towns in small launches and sailing craft.....	1,409
Persons in transit passing through the canal.....	11
Persons in transit for Pacific ports not passing through canal.....	234
Persons in transit for Atlantic ports.....	27
Immigrants rejected and deported.....	18

IMMIGRATION REPORT FOR THE PORTS OF COLON-CRISTOBAL AND BALBOA-PANAMA FOR THE MONTH OF SEPTEMBER, 1917.

From—	Cabin.	Steerage.
United States.....	507	69
Europe.....	10	.....
Cuba.....	34	20
Porto Rico.....	23	.....
Jamaica and West Indies (not shown above).....	13	181
Mexico.....	2	.....
Salvador.....	2	.....
Costa Rica.....	39	35
Bocas del Toro, Republic of Panama.....	49	271
Colombia.....	101	88
Venezuela.....	11	.....
Ecuador.....	12	1
Peru.....	6	2
Chile.....	5	4
Asia.....	3	.....
	817	671
	1,488	

Men.....	799
Women.....	452
Children.....	237
	1,488

TABLE XVII—Continued.

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

Vessels inspected and passed.....	18
Crew inspected and passed.....	792
Passengers inspected and passed.....	194
Passengers, transit, inspected and passed.....	478

No quarantinable disease has appeared in this port, and the health conditions of the port and surrounding territory continue good.

TABLE XVIII.—PERSONNEL REPORT.

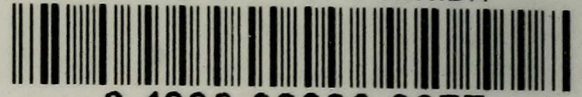
	September, 1917.			August, 1917.	Septem- ber, 1916.
	Gold employ- ees.	Silver employ- ees.	Total employ- ees.	Total employ- ees.	Total employ- ees.
Chief health office.....	3	-----	3	4	5
Medical storehouse.....	4	4	8	8	8
Quarantine division.....	13	35	48	48	46
Health office, Panama.....	12	135	147	154	159
Health office, Colon.....	10	129	139	153	166
Ancon Hospital.....	120	214	334	343	¹ 365
Colon Hospital.....	19	27	46	48	42
Santo Tomas Hospital.....	5	-----	5	5	6
Palo Seco Leper Asylum.....	2	22	24	27	37
Zone sanitation.....	6	130	136	142	126
Corozal Hospital and farm.....	16	105	121	126	² 65
Dispensaries:					
Balboa.....	6	3	9	9	8
Pedro Miguel.....	2	2	4	4	3
Paraiso.....	2	2	4	4	4
Gamboa.....	1	-----	1	1	2
Gatun.....	2	2	4	4	4
Total.....	223	810	1,033	1,080	1,046

¹ Includes Corozal Hospital.

² Corozal farm only.



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