

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

CHAS. F. MASON

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

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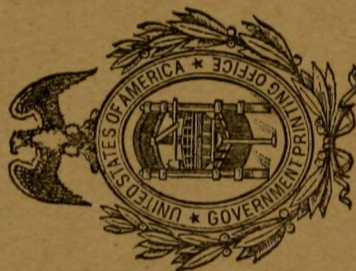
WASHINGTON
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LETTER OF TRANSMITTAL.

THE PANAMA CANAL, CANAL ZONE,
HEALTH DEPARTMENT,
Balboa Heights, March 10, 1916.

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

SIRS: I have the honor to submit the following report of the operations of the Department of Health for the month of February, 1916.

Very respectfully,

CHAS. F. MASON,
Chief Health Officer.

GENERAL REMARKS.

No cases of yellow fever, smallpox, or plague originated on or were brought to the Isthmus during the month.

VITAL STATISTICS.

The health of the employees remained good during the month. The number of names on the rolls for the preceding month was 30,497.

The total number of admissions to hospitals and quarters was 744, a rate of 292.75 per thousand, as compared with 318.23 for the preceding month, and 294.17 for the corresponding month of last year. This is the lowest admission rate ever attained on the Isthmus.

The total number of deaths from all causes was 16; of these 11 died from disease, or 3.97 per thousand, as compared with 4.99 for the preceding month, and 3.15 for the corresponding month of last year.

The constantly noneffective rate was 11.12, compared with 10.34 for the preceding month, and 10.46 for the corresponding month of last year.

The total admission rate for malaria, hospitals, and quarters was 17.71, compared with 18.83 for last month, and 47.98 for the corresponding period of last year, and the total noneffective rate .58 compared with .71 for last month and 1.17 for February, 1915. These are the lowest malaria rates ever recorded here; the admission rate is little more than one-third of that for February, 1915, which in its turn was lower than for any preceding February; the constantly noneffective rate was less than one-half that for the same month last year. With the exception of an occasional case contracted in the jungle there were no new infections.

Malaria caused 6 per cent of all admissions to hospitals and quarters. Five per cent of the total noneffective rate was caused by malaria.

The diseases next to malaria causing the highest admission rates, in the order of their numerical importance were: Diseases of the digestive system, venereal diseases, nonvenereal diseases of the genito-urinary system, and diseases of the nervous system. These five classes of diseases caused 49 per cent of all admissions to hospital.

The admission rate for typhoid fever was .00, compared with 38 for last month, and .00 for the corresponding month of last year.

EFFECTS OF RACE.

The admission rate to hospital and the death rate for disease for black employees were 132.34 and 5.07 per thousand, as compared with 367.46 and .00 for white employees. The noneffective rate for disease and injuries for black employees per thousand was 9.46, as compared with 19.70 for white employees.

The admission rate to hospitals and quarters for malaria was 12.45 per thousand for blacks, as compared with 48.28 for whites.

The death rate for Americans was .00, and the admission rate to hospitals for disease was 247.72. The admission rate for malaria to hospitals and quarters was 35.39 for Americans.

DEPORTATIONS.

Nine deportations were accomplished during the month, 5 employees and 4 nonemployees, as follows:

For disease:	
Pulmonary tuberculosis.....	2
Cerebral apoplexy with aphasia.....	1
Dementia praecox, paranoid.....	1
Psychopath.....	1
For injury:	
Fracture tibia and fibula.....	1
Fracture of calcis bones, bilateral.....	1
Fracture skull, L. post. parietal region.....	1
Keratitis, traumatic.....	1

CANAL ZONE.

The population of the Canal Zone is 32,026, among whom there was a total of 24 deaths; of these 22 deaths were from disease, giving a rate of 8.24 per thousand, as compared with 10.20 for the preceding month, and 5.63 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 64, as compared with 44 of last month.

There were 60 births reported, giving a rate of 22.48 per thousand. Of these births 18 were of white and 42 of colored children. There were 9 deaths of children under 1 year of age, 1 white and 8 colored, giving an infant mortality of 56 for white and 190 for colored children, with a general average of 150. The percentage of stillbirths to total births was 5 per cent.

PANAMA CITY.

The population of the city is 60,778, among whom there was a total of 125 deaths; of these 118 deaths were from disease, giving a rate of 23.29 per thousand, as compared with 27.64 for the preceding month and 25.24 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 44 per cent, as compared with 49 for last month. The principal causes of death showing an increase as compared with January were: Tuberculosis of the lungs 18, compared with 14 for the preceding month; diarrhea and enteritis 18, compared with 15 for last month; Bright's disease 10, compared with 7 for the month of January.

There were 297 births, giving a rate of 58.64 per thousand; the percentage of stillbirths to total births was 5 per cent.

COLON.

The population of the city is 24,693, among whom there were 58 deaths; of these 55 deaths were from disease, giving a rate of 26.72 per thousand, as compared with 41.31 for the preceding month and 17.59 for the corresponding month of last year. Of the total deaths from disease the percentage under 5 years of age was 33 per cent, compared with 42 for last month.

The principal causes of death showing a decrease as compared with January were: Tuberculosis of the lungs 3, as compared with 11 for the preceding month; Bright's disease 5, as compared with 12 for last month; and organic disease of the heart 1, as compared with 6 for the month of January.

There were 65 births reported, giving a rate of 31.59 per thousand. The infant mortality was 92 per thousand. The percentage of stillbirths to total births was 6 per cent.

HOSPITAL DIVISION.

ANCON HOSPITAL.

During the month the average number of patients constantly in hospital was 744.14. The per capita cost of patients in hospital, proper, was \$1.9859 gross, and \$0.8997 net. The net per capita cost of patients in the insane asylum was \$0.5405.

BOARD OF HEALTH LABORATORY.

A sanitary survey of the town of La Palma, Province of Darien, Panama, has been made, and over 30 per cent of the children were found to harbor malarial parasites in the peripheral blood. The entire population is infected with the hookworm. No other epidemic diseases were found. The water supply is from shallow wells and is inadequate; there is no provision whatever for the disposal of night soil.

A study of the incidence of relapses in malarial cases at Las Cascadas during the last five years has shown that only 25 per cent of the cases are relapses, a much lower percentage than obtains in other places in malarial regions and which illustrates well the results of our routine treatment.

A fairly satisfactory method of determining the fat content of livers obtained at autopsy has been worked out, and a small series of determinations has been made.

Observations are being continued on lesions found in the large joints at autopsy, with special reference to their relation to occupation, arterio-sclerosis, and syphilis.

A study of the past clinical records and autopsy findings of all young adults who possessed contracted kidneys has been made, and the data collected would appear to throw light on the etiology of the "Rose Bradford Kidney." There is reason to believe that our apparent large finding of this condition on the Canal Zone is due to the disproportionately large young male population, and to the end results of various acute infections from which they have suffered, such as malaria, dysentery, etc.

A report on the pathology of the recent yellow fever cases that came to autopsy has been prepared with special attention to those diseases on the Canal Zone which require a differential study. Some notes were also made on the relation of icterus to swelling of the liver in certain acute infections. The degree of swelling noted in the liver associated with pneumonia is much greater than that in yellow fever, yet in only 44 per cent was icterus a feature, while in all yellow fever cases, regardless of the degree of enlargement of the liver, icterus was a feature. The old theory of the cause of jaundice in such acute infections will not harmonize with the incidence of this feature in the various acute diseases. The liberation and change of hemoglobin explains its appearance in such a disease as black-water fever but not in pneumonia or yellow fever.

INSANE DEPARTMENT.

During the month there were 20 admissions, 10 discharges, and 3 deaths, including 1 insane patient, who died in Ancon Hospital. Of the discharged, 2 were deported, 1 to the United States and 1 (a Zone prisoner) to Barbados. Four cases were sent to Ancon Hospital for surgical treatment, 2 of whom were returned the same month.

The 3 patients carried in isolation with typhoid precautions were released from isolation on February 10.

The installation of the sterilizer for milk bottles is progressing satisfactorily. The pipe line from the hospital grounds to the dairy has been completed, and the boiler to generate the steam will be erected in the early part of March.

Work by the more comfortable patients has progressed favorably. The débris in the rear of the ward buildings has been completely cleared and the lumber stacked clear of the ground in accordance with instructions issued by the health department. Much of the old lumber has been cut and placed in bags for issue

as firewood. The tall grass and weeds in the hospital grounds have been removed and the surface leveled, so that in the future the grass can be cut with hand mowers. This has added greatly to the appearance of the grounds.

The interior painting of the wards and other hospital buildings has been about completed.

The oiling of the roads in the hospital grounds and in the cemetery has been completed by the division of municipal engineering. A concrete walk from the main hospital road to the attendants' quarters is nearing completion, all the labor having been performed by farm cripples.

During the month the duties of district physician and dispensary treatment have been added to the work at the hospital. This work has increased daily, owing to the gangs of laborers employed in clearing the jungle beyond the confines of the hospital.

The general physical health of the patients and cripples remains good.

CHRONIC WARD.

There were 27.58 chronic and incurable patients constantly cared for during the month. The cost per patient per day was \$0.2385.

Detailed statistics are shown in Table XIV.

COLON HOSPITAL.

The average number of employees constantly sick was 24.23. The average number of days treatment per employee was 6.75. The per capita cost of patients was \$2.68 gross and \$1.94 net.

Detailed statistics are shown in Table XIV.

PALO SECO LEPER ASYLUM.

The number of patients under treatment at the end of the month was 57. During the month there was one admission and one death.

Detailed statistics are shown in Table XV.

SANTO TOMAS HOSPITAL.

During the month a total of 1,323 patients were treated, 37 less than the preceding month. The daily average of patients in hospital was 471, as compared with 438 for January, and the total number of hospital days was 13,669, as compared with 14,190 for the preceding month. A total of 80 deaths have occurred with tuberculosis of the lungs, congenital debility, Bright's disease, and pneumonia, the chief causes in the order named.

Detailed statistics are shown in Table XVI.

DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Ancon-Corozal, with an average weekly percentage of 0.10; that having the lowest was Cristobal, with a percentage of 0.02.

Detailed statistics are shown in Table IX.

SANITATION—CANAL ZONE.

Good progress has been made during the month in improving drainage facilities by laying tile and cementing ditches in all of the zone districts. In the Balboa district several large areas have been cleared of brush, grubbed, and graded, rendering it possible to use a mowing machine over them.

The campaign for the elimination of rats goes forward gradually. Old buildings are being replaced by new ones of rat-proof construction; and board of health ordinance No. 7, recently enacted and which goes into effect at once, practically prohibits the raising of chickens in residence districts, and marks a decided advance in the antiplague precautions of the zone.

Out of 4,519 *anopheles* mosquitoes which were sent to the laboratory for identification from all parts of the Canal Zone, all were *Albimanus* except 4 *tarsimaculata* and 2 *malefactor*.

Of 3,837 other mosquitoes sent in for identification, 1,027 were *culex*, 2,603 *mansonina*, 113 *stegomyia*, and 94 *Wyeomyia*.

The following communicable diseases were reported during the month:

Measles.....	7	Tuberculosis.....	7
Mumps.....	1	Erysipelas.....	3
Chicken pox.....	1	Dysentery.....	4
Diphtheria.....	3	Gonorrheal opthalmia.....	1
Malaria fever.....	97		

SANITATION—PANAMA.

For the week ending February 26 only four hospital cases of malaria were recorded, and three of these were clinical. This is the low-water mark in the malarial history for the city of Panama to date.

The following cases of communicable diseases were reported during the month:

Diphtheria.....	2	Measles.....	4
Tuberculosis, pulmonary.....	30	Leprosy.....	2
Tuberculosis, other forms.....	4	Whooping cough.....	1
Chicken pox.....	3		

SANITATION—COLON.

Good progress has been made in the permanent mosquito eradication work that has been under way in the Cristobal and Mount Hope districts. Several of the swamp areas have been filled and the hydraulic fill at Camp Bierd has been completed.

Several buildings at Mount Hope were vacated and destroyed for sanitary reasons.

An arrangement has been made for the construction on Colon dump of a fly-tight concrete bin for curing manure. There is a great demand for stable manure by the supply department and gardeners, and this measure will meet the demand without allowing fly breeding.

The new regulations concerning keeping of fowls and small animals in the Canal Zone have been put into effect. No chickens will be authorized kept in Cristobal except in approved standard coops, and at Mount Hope only in rat-proof chicken houses.

The following infectious diseases were reported during the month:

Typhoid fever.....	1	Tuberculosis.....	4
Measles.....	17	Pneumonia.....	1
Mumps.....	6	Dysentery.....	1
Whooping cough.....	1		

QUARANTINE SERVICE.

On the Atlantic side 27 special inspections of small coasting vessels were made. No mosquito breeding or uncovered water containers were found.

Two cases of sickness on the Spanish steamship *Buenos Aires*, reported by the ship's surgeon as possible varioloid, were isolated at the quarantine station, the cabin disinfected, and contacts vaccinated and held under observation. The diagnosis was subsequently decided to be varicella.

The United States naval collier *Jason* arrived at Cristobal February 18 from Norfolk, Va., without a bill of health, prescribed by law. The case was taken into court and a nominal fine imposed.

On the Pacific side coast conditions show little change from last month. Yellow fever and plague are apparently increasing in Guayaquil, Ecuador. The yellow-fever situation in Buenaventura, Colombia, and vicinity is unchanged.

Daily water-front inspections to insure the carrying out of rat guard breasting-off, etc., regulations, have been maintained, as usual.

No quarantinable diseases arrived at our ports or occurred on t htmus during the month.

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

ABSOLUTE NUMBERS.

	Num- ber of em- ployees.	Admissions to hos- pitals.			Deaths.			Noneffective from sickness.	
		Total.	Dis- ease.	Ex- ternal causes.	Total.	Dis- ease.	Ex- ternal causes.	Days treated.	Con- stant- ly non- effect- ive.
<i>February, 1916.</i>									
White.....	4, 474	137	111	26	0	0	0	2, 557	88. 16
Colored.....	26, 023	287	206	81	16	11	5	7, 282	251. 10
Total...	30, 497	424	317	107	16	11	5	9, 839	339. 26
<i>January, 1916.</i>									
White.....	4, 535	150	114	36	1	1	0	2, 528	81. 55
Colored.....	26, 688	292	201	91	16	12	4	7, 245	233. 71
Total...	31, 223	442	315	127	17	13	4	9, 773	315. 26
<i>February, 1915.</i>									
White.....	4, 629	162	127	35	3	1	2	2, 923	104. 38
Colored.....	29, 637	361	271	90	16	8	8	7, 114	254. 07
Total...	34, 266	523	398	125	19	9	10	10, 037	358. 45

PROPORTIONATE NUMBERS.¹

<i>February, 1916.</i>									
White.....	4,474	367.46	297.72	69.74	-----	-----	-----	-----	1.970
Colored.....	26,023	132.34	94.99	37.35	7.38	5.07	2.31	-----	9.46
Total...	30,497	166.83	124.73	42.10	6.29	4.33	1.96	-----	11.12
<i>January, 1916.</i>									
White.....	4,535	396.91	301.65	95.26	2.64	2.64	-----	-----	17.98
Colored.....	26,688	131.29	90.37	40.92	7.19	5.39	1.80	-----	8.76
Total...	31,223	169.88	121.06	48.81	6.53	4.99	1.54	-----	10.09
<i>February, 1915.</i>									
White.....	4,629	419.95	329.22	90.73	7.78	2.59	5.19	-----	22.55
Colored.....	29,637	146.17	109.73	36.44	6.48	3.24	3.24	-----	8.58
Total...	34,266	183.15	139.38	43.77	6.65	3.15	3.50	-----	10.46

¹ Annual average per 1,000.

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

PROPORTIONATE NUMBERS—Continued.

Place.	Popu- lation.	Deaths.			Annual average per 1,000.		
		Total.	Disease.	Exter- nal causes.	Total.	Disease.	Exter- nal causes.
<i>February, 1916.</i>							
Panama.....	60, 778	125	118	7	24.67	23.29	1.38
Colon.....	24, 693	58	55	3	28.18	26.72	1.46
Canal Zone.....	32, 026	24	22	2	8.99	8.24	.75
Total.....	117, 497	207	195	12	21.14	19.91	1.23
<i>January, 1916.</i>							
Panama.....	60, 778	144	140	4	28.43	27.64	.79
Colon.....	24, 693	86	85	1	41.79	41.31	.48
Canal Zone.....	31, 739	32	27	5	12.09	10.20	1.89
Total.....	117, 210	262	252	10	26.82	25.80	1.02
<i>February, 1915.</i>							
Panama.....	60, 373	130	127	3	25.83	25.24	.59
Colon.....	29, 331	48	43	5	19.64	17.59	2.05
Canal Zone.....	31, 948	20	15	5	7.51	5.63	1.88
Total.....	121, 652	198	185	13	19.53	18.25	1.28

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

Age.	White.			Colored.			Yellow.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year.....	2	2	4	25	23	48	....	1	1	27	26	53
1 to 4 years.....	....	1	1	16	17	33	....	....	....	16	18	34
5 to 10 years.....	....	....	....	3	3	6	....	....	....	3	3	6
11 to 20 years.....	....	1	1	1	6	7	....	1	1	1	8	9
21 to 30 years.....	1	....	1	24	6	30	....	....	....	25	6	31
31 to 40 years.....	6	1	7	13	10	23	....	....	....	19	11	30
41 to 50 years.....	1	1	2	7	5	12	....	....	....	8	6	14
51 to 60 years.....	4	....	4	10	4	14	....	....	....	14	4	18
61 to 70 years.....	1	....	1	4	2	6	....	....	....	5	2	7
71 to 80 years.....	1	....	1	....	1	1	....	....	....	1	1	2
81 to 90 years.....	....	....	....	1	1	2	....	....	....	1	1	2
Not stated.....	....	....	....	1	....	1	....	....	....	1	....	1
Total.....	16	6	22	105	78	183	....	2	2	121	86	207

TABLE III.—DEATHS BY NATIONALITY.

Nations.	Em- ployees.	Nonem- ployees.	Total.
Antigua.....		1	1
Austria.....		1	1
Barbados.....	6	27	33
Bermuda.....		1	1
China.....		2	2
Colombia.....		13	13
Demerara.....		1	1
England.....		1	1
France.....		1	1
Germany.....		1	1
Grenada.....		1	1
Guadeloupe.....		3	3
Italy.....		1	1
Jamaica.....	7	48	55
Martinique.....		5	5
Montserrat.....	1	1	2
Nicaragua.....		1	1
Panama.....		62	62
Peru.....	1	2	3
Portugal.....		1	1
Scotland.....		1	1
Spain.....		1	1
St. Lucia.....		2	2
St. Kitts.....		1	1
St. Thomas.....		2	2
St. Vincent.....	1	2	3
Tobago.....		1	1
Trinidad.....		3	3
United States.....		2	2
Unknown.....		2	2
Total.....	16	191	207

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 (4,069):		
Disease.....		
External causes.....		
All causes.....		
White women and children from the United States (3,378):		
Disease.....	1	3.55
External causes.....		
All causes.....	1	3.55
White employees and their families from the United States (7,447):		
Disease.....	1	1.61
External causes.....		
All causes.....	1	1.61
Total number of Americans on the Canal Zone (14,128):		
Disease.....	1	.85
External causes.....	1	.85
All causes.....	2	1.69

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

Causes of death.	White.	Colored.	Total.
Disease:			
Pellagra.....		1	1
Lobar pneumonia.....		2	2
Disseminated tuberculosis.....		1	1
Tuberculosis of the lungs.....		1	1
Malignant endocarditis.....		1	1
Organic disease of the heart.....		2	2
Manic depressive psychosis.....		1	1
Syphilis, tertiary.....		1	1
Perforated duodenal ulcer.....		1	1
External causes:			
Traumatism by machinery.....		3	3
Traumatism by fall.....		1	1
Traumatism by other crushings.....		1	1
Total.....		16	16

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

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>General diseases.</i>				
Measles.....		2		2
Whooping cough.....		1		1
Purulent infection and septicemia.....	1	1		2
Including septicemia.....	1			1
Pellagra.....		1		1
Beriberi.....	1			1
Tuberculosis of the lungs.....	18	3		21
Tuberculous meningitis.....		1		1
Tuberculosis of other organs.....	1			1
Disseminated tuberculosis.....	6	3	2	11
Rickets.....		1		1
Syphilis, tertiary.....	1			1
Cancer and other malignant tumors of the buccal cavity.....		1		1
Cancer and other malignant tumors of the peritoneum, intestines, rectum.....	1			1
Cancer and other malignant tumors of other organs and of organs not specified.....	1	1		2
Anemia, secondary, cause not determined.....	2			2
Alcoholism, chronic.....		1		1
<i>Diseases of the nervous system and of the organs of special sense.</i>				
Simple meningitis.....	1			1
Pneumococcus meningitis.....	1			1
Cerebral hemorrhage, apoplexy.....	4	1	1	6
Paralysis without specified cause.....	1			1
Other forms of mental alienation.....			1	1
Epilepsy.....		3		3
Diseases of the ears.....	1			1

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

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>Diseases of the circulatory system.</i>				
Acute endocarditis.	1	1		1
Malignant endocarditis.	3	1	2	6
Organic diseases of the heart.	1			1
Aneurysm.	1			1
Arteriosclerosis.	2	2		4
Diseases of the lymphatic system.	1			1
<i>Diseases of the respiratory system.</i>				
Acute bronchitis.	3	1		4
Chronic bronchitis.	1	1		2
Broncho-pneumonia.	5	1	2	8
Pneumonia (unqualified).	1	2	1	3
Lobar pneumonia.	2	5		7
Empyema.	1			1
Pulmonary congestion, pulmonary apoplexy.	1			1
<i>Diseases of the digestive system.</i>				
Diseases of the pharynx.	18	1	1	20
Colitis.	1			1
Diarrhea and enteritis (two years and over).	1	1		2
Colitis.	1			1
Hernia, intestinal obstructions.	1			1
Intestinal obstruction.	1			1
Duodenal ulcer.	1		1	2
Cirrhosis of the liver.	1	1		2
Other diseases of the liver.	1	1		2
Abscess of liver (unqualified).	1			1
Simple peritonitis (nonpuerperal).		1		1
<i>Nonvenereal diseases of the genito-urinary system and annexa.</i>				
Acute nephritis.	2	2	3	7
Bright's disease (chronic nephritis).	10	5	2	17
Other diseases of the kidney and annexa.	1			1
<i>Diseases of early infancy.</i>				
Newborn child.	3		1	4
Premature birth.	3		2	5
Congenital debility.	5	1	2	8
Malnutrition.	2		2	4
Other causes peculiar to early infancy (including various consequences of labor).	2			2
<i>Affections produced by external causes.</i>				
Suicide by hanging or strangulation.	1			1
Burns (conflagration excepted).	1			1
Accidental drowning.		1		1
Traumatism by firearms.		1		1
Traumatism by fall.	1		1	2
Traumatism by machines.	2	1		3
Traumatism by other crushings (vehicles, rail-roads, landslides, etc.).	2			2
Homicide by other means.			1	1

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

Disease.	Pan-ama.	Colon.	Canal Zone.	Total.
<i>Ill-defined diseases.</i>				
Cause of death not specified or ill-defined.....	5	5	1	11
Total.....	125	58	24	207
Stillbirths.....	15	4	3	22
Grand total.....	140	62	27	229

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>General diseases.</i>												
Malarial fever:												
Estivoautumnal.....	1	1	11				25	2	3			
Tertian.....	2		7				12	2	1			
Clinical.....	4	4	3				23		1			
Hemoglobinuric fever, malarial.....		1	1									
Measles.....			5					2	6			1
Diphtheria and croup.....												
Influenza.....	4		9					5				
Dysentery.....												
Dysentery, entamebic.....								2				
Dysentery, unclassified.....		1										
Leprosy.....			1									
Erysipelas.....	2		1									
Dengue.....												
Chicken pox.....			1									
Mumps.....			2						2			
Purulent infection and sep- ticemia.....	1						1					
Pellagra.....			2			1			3			
Tuberculosis of the lungs.....	1		4					2	6		1	2
Tuberculous meningitis.....												
Pott's disease.....									1			
Tuberculosis of other organs.....								1				
Tuberculosis of the lymph glands.....							1					
Disseminated tuberculosis.....						1			3		1	5
Rickets.....									1			1
Syphilis, primary.....	1		1									
Syphilis, secondary.....	1		7				1	1	1			
Syphilis, tertiary.....			11			1		2	6			
Syphilis, hereditary.....								2	1			
Syphilis, period not stated.....			2					1	1			
Gonorrhea.....	2	1	12				2		1			
Gonorrheal arthritis.....			1						1			
Gonorrheal orchitis and epididymitis.....			2				3	1				
Gonorrheal ophthalmia.....			2					1	1			
Soft chancre.....		4	2				5	2				
Adenitis chancroidal.....	1											
Cancer and other malig- nant tumors of the stom- ach and liver.....	2											
Cancer and other malig- nant tumors of the fe- male genital organs.....									1			

IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

[illegible]

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the circulatory system—Continued.</i>												
Diseases of the lymphatic system (lymphangitis, etc.)												
Lymphadenitis (nonvenereal)	2		3				7	2	1			
Hemorrhage; other diseases of the circulatory system												
<i>Diseases of the respiratory system.</i>												
Diseases of the nasal fossæ	1		1				6	1	1			
Adenoid vegetations									1			
Acute bronchitis			2					8	1			
Chronic bronchitis	1		3				1	1				
Broncho-pneumonia												
Pneumonia (unqualified)												
Lobar pneumonia		1	1			1		2				
Pleurisy			5						2			
Empyema												
Asthma			1									
Other diseases of the respiratory system (tuberculosis excepted)									1			
<i>Diseases of the digestive system.</i>												
Diseases of the mouth and annexa												
Diseases of the teeth and gums	1											
Stomatitis	1											
Diseases of the pharynx			2					3	3			
Follicular tonsillitis	3		6				2	7	8			
Diseases of the esophagus	1											
Ulcer of the stomach			1				2					
Other diseases of the stomach (cancer excepted)			1					1	1			
Acute gastritis												
Chronic gastritis								1				
Acute indigestion								2				
Diarrhea and enteritis (under two years)								1	1			

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Diseases.	Ancon Hospital.											
	Employees.						Nonemployees.					
	Admissions.			Deaths.			Admissions.			Deaths.		
	White.			White.			White.			White.		
	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
<i>Diseases of the digestive system—Continued.</i>												
Diarrhea and enteritis (two years and over).....	1						2					
Colitis.....			2									
Ankylostomiasis.....			2						1			
Acute appendicitis.....	1						2	2				
Chronic appendicitis.....							1					
Inguinal hernia.....		1	4				2	2				
Other diseases of the intestines.....	6		1				1	5	1			
Constipation.....							1		2			
Duodenal ulcer.....			1			1			1			1
Cirrhosis of the liver.....								1				
Other diseases of the liver.....								1				
Abscess of liver (unqualified).....												
Abscess of the liver (entamebic).....												
<i>Nonvenereal diseases of the genito-urinary system and adnexa.</i>												
Acute nephritis.....									1			
Bright's disease (chronic nephritis).....			3						2		1	3
Other diseases of the kidney and adnexa.....								3				
Calculi of the urinary passages.....	2											
Diseases of the bladder.....			1									
Cystitis.....								1				
Diseases of the urethra, urinal abscess, etc.....												
Stricture of the urethra, nonvenereal.....			2						1			
Chronic prostatitis.....							1					
Nonvenereal diseases of the male genital organs.....	1		2				1	1				
Hydrocele.....							1	1				
Lymph scrotum and varix.....			1									
Uterine tumor (noncancerous).....								1	1		1	
Other diseases of the uterus.....	1							4	1			
Metritis.....								1	4			

IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	...
1	...	...	...	...	...	3	1	...	...	...	...	1	...	...	...	...	...	5	3	...	...	...	...
...	...	3	...	...	...	1	...	...	...	...	...	1	1	7	...	...	...	1	...	...	...	...	...
...	1	...	...	...	...	...	...	...	...	...	...	6	1	1	...	...	...	3	2	...	...	...	...
...	...	1	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	1	5	1	...	...	...
1	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	1	...	3	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1
...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	...
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
1	1	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	...	3	...	...	...	...	3	...	...	...	...	...	...	5	...	1	4
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...
1	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...
1	...	...	...	...	...	...	1	...	...	...	...	1	1	...	...	...	...	1	...	...	...	...	...
...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	1	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
...	...	2	...	...	...	2	...	...	...	...	...	1	4	...	...	...	...	3	1	...	...	...	...
...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	1	2	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
...	1	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	...	1	3	...	1	...	...
...	...	...	...	...	...	4	...	...	...	...	...	1	...	...	...	...	...	8	1	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	4	...	...	...	...

IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

[illegible]

TABLE VII.—TABLE SHOWING ADMISSIONS AND DEATHS

Ancon Hospital.		Employees.		Nonemployees.		Diseases.		Diseases of the bones and of the organs of locomotion—Continued.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		Admissions.		Deaths.				Other diseases of the organs of locomotion.		Malformations.		Congenital malformations (stillbirth not included).		Diseases of early infancy.		Newborn child.		Premature birth.		Old age.		Senility.		Affections produced by external causes.		Poisoning by food.		Confagration.		Burns (conflagration excepted).		Traumatism by cutting or piercing instruments.		Traumatism by fall.		Traumatism by machines.		Traumatism by other crush-ings (vehicles, railroads, landslides, etc.)		Heat exhaustion.		Fractures (cause not specified).		Dislocations.		Sprains.		Other external violence.		Infections of undetermined origin.		No disease.		Feigned disease.		Grand total.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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IN THE HOSPITALS OF THE PANAMA CANAL—Continued.

Colon Hospital.												Total.											
Employees.						Nonemployees.						Employees.						Nonemployees.					
Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.			Admis- sions.			Deaths.		
W.			W.			W.			W.			W.			W.			W.			W.		
Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.	Americans.	Europeans.	Black.	Americans.	Europeans.	Black.	Soldiers.	Others.	Black.	Soldiers.	Others.	Black.
		2					1					2	1	2				1	1	2			
																			1	1			1
							2											11	1				
																		1			1		1
																			1				
												1											
														1									
														3									
2		2					1					2	3	8						3			
	1						1					3		3			1						
													2	2					1				
2		1										2		20						3			
													1										
2		7			1			1				4		17			1	1	1	3			
1	1											1	1	1									
1												2	3	26				2	3	3			
		1										1		5					2	1			
												3	1					2	11	11			
																	1						
24	6	49			3	10	21	30			2	100	37	287			11	145	165	167		5	19

TABLE VIII.—CONSOLIDATED

A=white Americans;

	Remaining Feb. 1.			Admitted.			Died.		
	A	F	B	A	F	B	A	F	B
ANCON HOSPITAL.									
Panama Canal employees.....	19	14	126	67	24	149	.....	.....	5
Panama Railroad employees.....	3	1	74	9	7	88	.....	.....	2
Panama pay patients.....	.....	.....	1	.....	.....	1	.....	.....	1
Other pay patients.....	110	44	52	222	38	100	.....	3	11
Charity patients.....	12	6	35	11	2	23	1	1	4
Total.....	144	65	288	309	71	361	1	4	23
<i>Insane department.</i>									
Panama Canal employees.....	.....	5	11	.....	.....	1	.....	.....	1
Panama Railroad employees.....	.....	.....	3	.....	.....	.....	.....	.....	.....
Panama pay patients.....	.....	21	163	2	2	9	.....	.....	1
Other pay patients.....	9	2	5	1	1	1	.....	.....	.....
Charity patients.....	4	4	44	.....	.....	3	.....	.....	.....
Total.....	13	32	226	3	3	14	.....	.....	2
Grand total.....	157	97	514	312	74	375	1	4	25
<i>Corozal farm.</i>									
Panama Canal employees.....	.....	11	42	.....	1	.....	.....	.....	.....
<i>Chronic ward.</i>									
Charity patients.....	.....	.....	27	.....	.....	1	.....	.....	.....
COLON HOSPITAL.									
Panama Canal employees.....	1	3	9	13	6	21	.....	.....	1
Panama Railroad employees.....	3	1	8	11	.....	28	.....	.....	2
Panama pay patients.....	.....	.....	.....	.....	2	15	.....	.....	1
Other pay patients.....	4	3	5	14	13	11	.....	.....	1
Charity patients.....	.....	.....	.....	2	.....	4	.....	.....	.....
Total.....	8	7	22	40	21	79	.....	.....	5
PALO SECO LEPER ASYLUM.									
Panama Canal employees.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Panama pay patients.....	.....	3	34	.....	.....	.....	.....	1	.....
Charity patients.....	.....	2	18	.....	.....	.....	.....	.....	.....
Total.....	.....	5	52	.....	.....	1	.....	1	.....
GRAND TOTAL.									
Panama Canal employees.....	20	33	188	80	31	172	.....	.....	7
Panama Railroad employees.....	6	2	85	20	7	116	.....	.....	4
Panama pay patients.....	.....	24	198	2	4	25	.....	1	3
Other pay patients.....	123	49	62	237	52	112	.....	3	12
Charity patients.....	16	12	124	13	2	31	1	1	4
Total.....	165	120	657	352	96	456	1	5	30

Number of employees remaining in hospitals:

White..... 72

Colored..... 279

Total..... 351

HOSPITAL REPORT.

F=white foreigners; B=blacks.

Discharged.			Transferred.			Remaining Feb. 29.			Average number constantly sick.			
									White.		Black.	Total.
A	F	B	A	F	B	A	F	B	Ameri- can.	Foreign.		
62	22	147	.....	.....	3	24	16	120	24.62	14.76	122.10	161.48
6	4	72	.....	.....	1	6	4	88	3.14	4.59	77.72	85.45
244	59	94	1	.....	2	87	20	45	94.00	30.00	53.44	177.44
20	5	18	1	.....	1	1	2	36	7.76	3.38	33.69	44.83
332	90	331	2	.....	6	118	42	289	129.52	52.73	288.26	470.51
.....	.....	.....	.....	2	.....	.....	3	11	.....	4.10	10.21	14.31
.....	.....	.....	.....	.....	.....	.....	3	3	.....	.....	3.00	3.00
.....	.....	3	.....	.....	1	2	23	167	1.93	20.79	164.42	187.14
.....	1	1	1	.....	.....	9	2	5	8.79	2.38	5.10	16.27
.....	.....	1	.....	.....	.....	4	4	46	4.00	4.00	44.89	52.89
.....	1	5	1	2	1	15	32	232	14.72	31.27	227.62	273.61
332	91	336	3	2	7	133	74	521	144.24	84.00	515.88	744.12
.....	2	1	.....	.....	.....	.....	10	41	.....	9.93	41.58	51.51
.....	.....	.....	.....	.....	.....	.....	.....	28	.....	.....	27.58	27.58
10	4	17	3	2	4	1	3	8	2.27	2.51	8.01	12.79
6	1	17	3	.....	10	5	.....	7	4.82	.14	6.48	11.44
.....	1	.....	.....	1	13	.....	.....	1	.....	.62	.51	1.13
13	9	10	1	3	1	4	4	4	3.52	4.82	3.62	11.96
2	.....	1	.....	.....	3	.....	.....	.....	.72	.....	.17	.89
31	15	45	7	6	31	10	7	20	11.33	8.09	18.79	38.21
.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.17	.17
.....	.....	.....	.....	.....	.....	.....	2	34	.....	2.07	34.00	36.07
.....	.....	.....	.....	.....	.....	.....	2	18	.....	2.00	18.00	20.00
.....	.....	.....	.....	.....	.....	.....	4	53	.....	4.07	52.17	56.24
72	28	165	3	4	7	25	32	181	26.89	31.30	182.07	240.26
12	5	89	3	.....	10	11	4	98	7.96	4.73	87.20	99.89
.....	1	3	.....	1	15	2	25	202	1.93	23.48	200.24	225.65
257	69	105	3	3	3	100	26	54	106.31	37.20	62.16	205.67
22	5	20	1	.....	3	5	8	128	12.48	9.38	124.33	146.19
363	108	382	10	8	38	143	95	663	155.57	106.09	656.00	917.66

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

	Re- main- ing Feb. 1.		Ad- mitted.		Died.		Dis- charged.		Trans- ferred.		Re- main- ing Feb. 29.		Days lost.		
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	Total.
Ancon.....	3	---	88	---	---	---	86	---	4	---	1	---	222	---	222
Balboa.....	6	5	78	51	---	---	69	35	7	18	8	3	212	139	351
Pedro Mi- guel.....	2	---	5	1	---	---	5	---	1	1	1	---	48	1	49
Paraiso.....	---	---	26	1	---	---	25	1	---	---	1	---	64	6	70
Gamboa.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Gatun.....	---	---	13	11	---	---	12	10	1	1	---	---	42	66	108
Colon.....	8	18	52	51	---	---	54	57	---	---	6	12	201	467	668
Total.	19	23	262	115	---	---	251	103	13	20	17	15	789	679	1,468

ALL CASES TREATED BUT NOT EXCUSED.

	Employees.			Nonemployees.			Total.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
Ancon.....	2,099	3,809	5,908	1,453	2,138	3,591	3,552	5,947	9,499
Balboa.....	3,183	3,682	6,865	786	876	1,662	3,969	4,558	8,527
Pedro Mi- guel.....	500	961	1,461	580	308	888	1,080	1,269	2,349
Paraiso.....	873	2,786	3,659	555	669	1,224	1,428	3,455	4,883
Gamboa....	25	57	82	13	405	418	38	462	500
Gatun.....	534	2,598	3,132	1,846	2,530	4,376	2,380	5,128	7,508
Colon.....	889	2,274	3,163	689	892	1,581	1,578	3,166	4,744
Total	8,103	16,167	24,270	5,922	7,818	13,740	14,025	23,985	38,010

CONSOLIDATED ADMISSIONS REPORT.

	White.	Colored.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward.....	447	454	901
Total admissions of employees to quarters.....	262	115	377
Total.....	709	569	1,278
Less number of patients transferred between hospitals, and from quarters to hospitals, whose admissions are duplicated in above figures.....	25	38	63
Net admissions to hospitals and quarters....	684	531	1,215
Net admissions of employees to hospitals and quarters.....	376	368	744
Annual average per thousand of admissions of employees to hospitals and quarters.....	1,008.49	169.69	292.75

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.
CONTAGIOUS AND INFECTIOUS DISEASES REPORTED DURING THE MONTH OF
FEBRUARY, 1916.

Diseases.	Pana- ma.	Colon.	Canal Zone.	Total.
Measles.....	4	17	7	28
Typhoid fever.....		1		
Annual average per 1,000.....		49		
Mumps.....		6	1	7
Chickenpox.....	3		1	4
Diphtheria.....	2		3	5
Malarial fever.....	4		97	101
Tuberculosis.....	34	4	7	45
Whooping cough.....	1	1		2
Leprosy.....	2			2
Erysipelas.....			3	3
Diarrhea.....			1	
Pneumonia.....		1		1
Dysentery.....		1	4	5
Gonorrheal ophthalmia.....			1	1

TABLE X.—NUMBER OF EMPLOYEES CONSTANTLY SICK IN HOS-
PITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	51.21	213.03	264.24
Colon Hospital.....	9.74	14.49	24.23
Palo Seco Leper Asylum.....		.17	.17
Total.....	60.95	227.69	288.64
Quarters:			
Ancon.....	7.65		7.65
Balboa.....	7.31	4.79	12.10
Pedro Miguel.....	1.65	.03	1.68
Paraiso.....	2.22	.21	2.43
Gatun.....	1.45	2.28	3.73
Colon.....	6.93	16.10	23.03
Total.....	27.21	23.41	50.62

	Hospitals.	Quarters.	Total.
Average number of employees constantly sick:			
White.....	60.95	27.21	88.16
Colored.....	227.69	23.41	251.10
Total.....	288.64	50.62	339.26
Average number of employees constantly sick:			
White.....	13.62	6.08	19.70
Colored.....	8.75	.90	9.45
Total.....	22.37	6.98	29.15

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

	White.	Colored.	Total.
Hospitals:			
Ancon Hospital.....	10.52	21.70	18.41
Colon Hospital.....	6.34	6.98	6.75
Quarters:			
Ancon.....	2.38	.....	2.38
Balboa.....	2.67	2.70	2.68
Pedro Miguel.....	10.17	1.00	8.86
Paraiso.....	2.48	6.00	2.61
Gatun.....	3.23	6.00	4.50
Colon.....	4.46	13.09	8.89

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH.

	January, 1916.	December, 1915.	January, 1915.
Administration:			
Chief health office.....	\$915.49	\$754.92	\$1,149.59
Hospital division:			
Ancon Hospital.....	26,007.49	26,607.08	35,336.72
Board of health laboratory.....	1,952.68	2,198.09	.....
Corozal farm.....	5,635.52	5,679.10	1,197.75
Chronic ward.....	225.62	210.61	230.94
Colon Hospital.....	3,371.90	4,057.35	4,323.79
Palo Seco Leper Asylum.....	1,651.33	1,884.81	1,311.59
Santo Tomas Hospital.....	981.63	1,119.60	891.18
Medical storehouse.....	949.96	1,044.67	723.26
Total.....	40,776.13	42,891.31	44,015.23
District dentists.....	12.23	3.38	12.00
Dispensaries:			
Naos Island.....	.....	.....	86.73
Balboa.....	1,074.58	1,140.00	1,133.65
Corozal.....	.....	10.30	640.20
Pedro Miguel.....	436.43	531.98	477.05
Paraiso.....	576.01	624.72	534.05
Culebra.....	.....	.....	457.91
Gamboa.....	116.14	157.89	144.67
Gatun.....	669.50	648.92	507.80
Toro Point.....	.....	23.21	36.40
Margarita Point.....	.....	.....	44.05
Total.....	2,884.88	3,140.40	4,074.51
Sanitary division:			
General inspector.....	50.00	50.00	50.00
Health office, Panama.....	5,565.03	4,059.53	3,069.78
Street cleaning.....	4,217.63	4,193.04	4,484.13
Health office, Colon.....	2,959.79	3,280.86	1,921.41
Street cleaning.....	2,395.11	2,253.96	1,888.96
Zone sanitation—			
Ancon.....	1,646.25	1,695.21	2,417.57
Balboa.....	1,868.03	1,028.44	1,116.66
Corozal.....	963.14	1,317.32	2,194.96
Pedro Miguel.....	3,284.91	2,567.74	984.13
Paraiso.....	.....	.....	1,093.59
Culebra.....	.....	.....	706.83

TABLE XII.—FINANCIAL STATEMENT, DEPARTMENT OF HEALTH—
Continued.

	January, 1916.	December, 1915.	January, 1915.
Sanitary division—Continued.			
Zone sanitation—Continued.			
Frijoles.....	\$66. 74	\$100. 65	\$121. 99
Gatun.....	2, 471. 45	2, 771. 14	1, 412. 32
Cristobal and Mount Hope.....	2, 287. 85	2, 212. 06	1, 393. 76
Total.....	27, 775. 93	25, 529. 95	22, 856. 09
Quarantine division:			
Chief quarantine office.....	206. 00	158. 08	295. 45
Balboa-Panama.....	1, 969. 95	1, 661. 15	1, 739. 56
Colon-Cristobal.....	2, 801. 42	2, 883. 72	2, 432. 92
Total.....	4, 977. 37	4, 702. 95	4, 467. 93
RECAPITULATION.			
Chief health office.....	915. 49	754. 92	1, 114. 59
Hospital division.....	40, 776. 13	42, 891. 31	44, 015. 23
Dispensaries.....	2, 884. 88	3, 140. 40	4, 074. 51
Sanitary division.....	27, 775. 93	25, 529. 95	22, 856. 09
Quarantine division.....	4, 977. 37	4, 702. 95	4, 467. 93
Total.....	77, 329. 80	77, 019. 53	76, 528. 35

January, 1916, last available figures.

TABLE XIII.—ANCON HOSPITAL.

REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total number treated.	American.		Other nations.	
		White.	Black.	White.	Black.
Hospital:					
Panama Canal employees....	399	86	.....	38	275
Panama Railroad employees....	182	12	.....	8	162
Panama Government pay patients.....	2	.....	.....	.....	2
Other pay patients.....	566	332	.....	82	152
Charity patients.....	89	23	.....	8	58
Total.....	1, 238	453	.....	136	649
Asylum:					
Panama Canal employees....	17	.....	.....	5	12
Panama Railroad employees....	3	.....	.....	.....	3
Panama Government pay patients.....	197	.....	2	23	172
Other pay patients.....	19	10	.....	3	6
Charity patients.....	55	4	.....	4	47
Total.....	291	14	2	35	240
Grand total.....	1, 529	467	2	171	889
Soldiers.....	226	226	.....	.....	.....
Chronics.....	28	.....	.....	.....	28
Corozal farm (cripples).....	54	.....	.....	12	42

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Ameri- can.	Other white.	Black.
Hospital:				
Panama Canal employees.....	4,683	714	428	3,541
Panama Railroad employees.....	2,478	91	133	2,254
Panama Government pay patients..	38			38
Other pay patients.....	5,146	2,726	870	1,550
Charity patients.....	1,300	225	98	977
Total.....	13,645	3,756	1,529	8,360
Asylum:				
Panama Canal employees.....	415		119	296
Panama Railroad employees.....	87			87
Panama Government pay patients..	5,427	56	603	4,768
Other pay patients.....	472	255	69	148
Charity patients.....	1,534	116	116	1,302
Total.....	7,935	427	907	6,601
Grand total.....	21,580	4,183	2,436	14,961
Soldiers.....	2,226	2,226		
Chronics.....	800			800
Corozal farm (cripples).....	1,494		288	1,206

Average cost of subsistence per patient day, \$0.2339.

WARD LABORATORY REPORT.

Blood examinations, total number.....	831
Estivoautumnal.....	54
Mixed.....	1
Tertian.....	26
Differential counts.....	35
Hemoglobin estimations.....	80
Leucocyte counts.....	115
Red-blood counts.....	2
Stool examinations, total number.....	541
Ascaric lumbricoides.....	7
Ciliated nomads.....	13
Entameba (hystolitica and tetragena).....	8
Benzidine tests.....	1
Guaiac tests.....	27
Pus and blood.....	73
Stronglodes.....	24
Tricocephalus dispar.....	25
Uncinaria (ova).....	34
Urine examinations, total number.....	1,702
Albumen.....	414
Bile.....	7
Casts.....	192
Epitholia.....	521
Benzidine.....	12
Guaiac tests.....	23
Acetone.....	23
Hemin crystals.....	2
Indican.....	73
Pus and blood.....	336
Sugar (pos. 4) (neg. 48).....	170
Sputum examinations, total number.....	246
Positive for tubercle bacilli.....	28

TABLE XIII.—ANCON HOSPITAL—Continued.

WARD LABORATORY REPORT—Continued.

Smear examinations, total number.....	47
Urethral.....	27
Eye.....	4
Spinal fluid.....	9
Toe.....	2
Mouth.....	1
Face.....	1

REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Operation on bones:		
Craniectomy, decompressive.....	1	.....
Laminectomy.....	1	1
Wiring of fractures, simple.....	1	.....
Arthrotomy of knee joint.....	3	.....
Adenectomy:		
Cervical.....	1	.....
Inguinal, single.....	12	.....
Inguinal, double.....	4	.....
Herniotomy:		
Inguinal, single.....	12	.....
Inguinal, double.....	1	.....
Genito-urinary tract:		
Urethrotomy, external.....	1	.....
Hydrocele, single.....	2	.....
Epididymotomy.....	4	.....
Amputation of scrotum.....	2	.....
Curetage uteri.....	8	.....
Perineoplasty.....	2	.....
Trachelorrhaphy.....	2	.....
Obstetrical:		
Cæsarian section, abdominal.....	1	.....
Thorax:		
Thoracotomy.....	1	.....
Rectum:		
Hemorrhoids, radical cure.....	6	.....
Fistula in anus, excision of.....	2	.....
General:		
Varicose veins, excision of.....	1	.....
Tenorrhaphy.....	1	.....
Excision of surface neoplasms.....	7	.....
Plastic operation for severe injuries.....	1	.....
Plastic operation for effects of disease.....	5	.....
Skin graft.....	1	.....
Laparotomy:		
Exploratory.....	1	.....
Partial gastrectomy.....	1	.....
Gastroenterostomy.....	1	1
Appendectomy.....	4	.....
Cholecystotomy.....	2	.....
Choledochotomy.....	1	.....
Panhysterectomy.....	1	1
Supravaginal hysterectomy.....	4	.....
Hysteromyomectomy.....	3	.....
Suspensio-uteri.....	1	.....
Plastic operation for chronic pelvic peritonitis.....	3	.....
Minor operations (various).....	87	.....
Total.....	192	3

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF OPERATIONS, EYE AND EAR DEPARTMENT.

8	Adenoidectomy
1	Enucleation eye
2	Frontal sinus radical
1	Antral sinusotomy intra nasal
9	Submucous resection
14	Tonsillectomy
1	Mastoidectomy simple
1	Pterygium transplantation
1	Minor operations:
4	Eye
2	Ear
1	Nose
7	Totals
44	Refractions

REPORT OF OUTPATIENT DEPARTMENT.

Clinics.	Total visits.	New cases.	Pay cases.	Pre-scriptions.
Medical	292	212	59	261
Surgical	215	113	13	44
Eye and ear	631	243	19	319
Total	1,138	568	91	624

MONTHLY REPORT OF VACCINATIONS.

149	Number of adults vaccinated
12	Number of "takes"
0	Number of school children vaccinated
161	Total vaccinations
12	Number of "takes"

REPORT OF BOARD OF HEALTH LABORATORY.

11	Bacteriological examinations of—
61	Blood cultures
34	Throat cultures
18	Urines
5	Stools
20	Sputum
533	Pathological fluids, exudates, etc
3	Wassermann reactions
3	Lepor suspects
1	Autopsy cultures
2	Agglutination reactions
1	Autogenous vaccines prepared
152	Blood for malaria
2	Blood for trypanosomes
4	Ice cream from Panama
19	Dairy milk from Panama, bacteriological counts
52	Dairy milk from Corozal farm, bacteriological counts
118	Milk sediments
29	Bacteriological examination of milk
1	Dark field examination for syphilis
1	Dark field examination for yaws

TABLE XIII.—ANCON HOSPITAL—Continued.

REPORT OF BOARD OF HEALTH LABORATORY—Continued.

Chemical analysis of—	
Milk from private dairies supplying cities of Panama and Colon.....	14
Mother's milk.....	4
Urines.....	4
Condensed milk.....	1
Roast mutton.....	1
"Zest" for Panama Brewing & Refrigerating Co.....	1
Waters for geologist.....	2
Surgical tissues neoplasms reported.....	35
Autopsies performed.....	23
Animals autopsied.....	11
Pathological tissues prepared, paraffin.....	429
Rats examined:	
<i>Mus musculus</i>	453
<i>Mus norvegicus</i>	331
<i>Mus alexandrinus</i>	3
<i>Mus rattus</i>	190
	977
Interments at Corozal.....	19
Cremations.....	17

COROZAL HOSPITAL.

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

	Male.	Female.
Commitments:		
From Canal Zone, first admission.....	3	2
From Canal Zone, second admission.....	1	
From Canal Zone, retransfer from Ancon Hospital.....	¹ 1	
From Panama Government, first admission.....	10	
From Panama Government, second admission.....		1
From Panama Government, third admission.....	1	
From Panama Government, retransfer from Ancon Hos- pital.....	¹ 1	
Total.....	17	3

¹ Had been transferred to Ancon Hospital for surgical treatment.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Discharges:						
Barbados.....		1	1		¹ 1	
Jamaica.....		1				
Martinique.....					¹ 1	
Panama.....		1			¹ 1	
St. Lucia.....	1					
United States.....					¹ 1	
England.....			1			
Total.....	1	3	2		4	

¹ Transferred to Ancon Hospital for surgical treatment.

CAROZAL HOSPITAL—Continued.

STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS, FEBRUARY, 1916—Continued.

Medical diagnosis.	Mental diagnosis.	Deaths.	
		Male.	Female.
Manic depressive psychosis.....	Manic depressive psychosis, depressive phase.	1	.....
Chronic nephritis; senile dementia.	Senile dementia.....	.....	1
Perithelial angio-sarcoma of skull and meninges.	Epilepsy.....	¹ 1	.....

¹ Died in Ancon Hospital.

TABLE XIV.—COLON HOSPITAL.

NATIONALITY.

	White American.	White Foreign.	Black.	Total.
Panama Canal employees.....	14	9	30	53
Panama Railroad employees.....	14	1	36	51
Panama pay.....	.....	2	15	17
Other pay.....	18	16	16	50
Charity cases.....	2	.....	4	6
Total.....	48	28	101	177

Cost of subsistence per patient per day, 34 cents.

COLON HOSPITAL LABORATORY REPORT.

Blood examinations.....	48
Estivo-autumnal.....	4
Tertian.....	1
White blood counts.....	1
Hemoglobin.....	11
Stool examinations.....	15
Blood.....	2
Pus.....	4
Strongyloides.....	2
Urine examinations.....	80
Albumen.....	12
Casts.....	10
Epithelia.....	30
Pus.....	18
Blood.....	4
Indican.....	2
Sugar.....	4
Bile.....	2
Urea crystals.....	1
Triple phosphates.....	12
Sputum examinations.....	14
Positive for tubercle bacilli.....	1
Pneumococci.....	6
Pus.....	8
Diphtheria (negative).....	1
Smear examinations.....	9
Gonorrhea.....	5
Pus.....	4

TABLE XIV.—COLON HOSPITAL—Continued.

COLON HOSPITAL SURGICAL OPERATIONS.

Amputations:	
Digits, multiple	1
Operations on bones:	
Ostectomy	1
Adenectomy:	
Inguinal, double	1
Femoral	1
Genito-urinary tract:	
Nephrotomy	1
Varicocele, radical cure	2
Curetage uteri	2
Rectum:	
Fistula in anus, excision of	1
General:	
Tenorrhaphy	1
Laparotomy:	
Appendectomy	3
Splenectomy	1
Pan-hysterectomy	1
Suspensio-uteri	1
Minor operations, various	7
Minor operations, various (dispensary)	108

TABLE XV.—PALO SECO LEPER ASYLUM.

NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panama Canal employees		1				1
Panama R. R. employees						
Pay cases	3	34			3	34
Charity cases	2	18			2	18
Total	5	53			5	53

Cost of subsistence per patient per day, 24 cents.

TABLE XVI.—SANTO TOMAS HOSPITAL.

Class.	Remain- ing Feb. 1.	Ad- mitted.	Dis- charged.	Died.	Remain- ing Feb. 29.
Pay cases	29	83	74	3	35
Charity cases	421	790	704	77	430
Total	450	873	778	80	465

Average number of patients constantly sick..... 471
 Total number of days treatment..... 13,669
 Average number of days treatment for each patient..... 10

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

NATIONALITY.

Class.	Number treated.	Americans.		Other Nations.	
		White.	Colored.	White.	Colored.
Pay cases.....	112	3	0	43	66
Charity cases.....	1,211	11	0	105	1,095
Total.....	1,323	14	0	148	1,161

DISPENSARY REPORT.

Class.	White.	Colored.	Total.
Natives.....	21	654	675
Foreigners.....	34	636	670
Total.....	55	1,290	1,345

DISEASES TREATED.

Typhoid fever.....	1
Malaria.....	67
Diphtheria and croup.....	1
Influenza.....	4
Dysentery.....	4
Other epidemic diseases.....	3
Purulent infection and septicemia.....	15
Pellagra.....	6
Beriberi.....	5
Tuberculosis of the lungs.....	17
Syphilis.....	54
Syphilis, secondary.....	1
Soft chancre.....	9
Gonococcus infection.....	23
Cancer and other malignant tumors of the breast.....	2
Other tumors.....	3
Other general diseases.....	1
Alcoholism.....	8
Cerebral hemorrhage.....	1
Paralysis without specified cause.....	2
Other forms of mental alienation.....	2
Epilepsy.....	2
Hysteria.....	1
Neuralgia and neuritis.....	3
Other diseases of the nervous system.....	4
Other diseases of the eyes and their annexa.....	7
Diseases of the ear.....	2
Organic heart disease.....	7
Diseases of the veins.....	11
Diseases of the lymphatic system.....	24
Hemorrhage.....	1
Diseases of the nasal fossæ.....	2
Chronic bronchitis.....	14
Broncho-pneumonia.....	3
Pneumonia.....	4
Pleurisy.....	2
Pulmonary congestion.....	1

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

DISEASES TREATED—Continued.

Pulmonary emphysema.....	1
Other diseases of the respiratory system.....	1
Diseases of the pharynx.....	13
Diarrhea and enteritis (under two years).....	2
Diarrhea and enteritis (two years and over).....	4
Ankylostomiasis.....	41
Appendicitis and typhlitis.....	4
Hernia, intestinal obstructions.....	12
Diseases of the anus and fecal fistulas.....	3
Other diseases of the intestines.....	4
Other diseases of the liver.....	1
Simple peritonitis.....	1
Bright's disease.....	22
Calculi of the urinary passages.....	1
Diseases of the bladder.....	7
Diseases of the urethra.....	2
Nonvenereal diseases of the male genital organs.....	7
Uterine hemorrhage (nonpuerperal).....	1
Uterine tumor (noncancerous).....	1
Other diseases of the uterus.....	1
Metritis.....	13
Other diseases of the uterus.....	5
Cysts and other tumors of the ovary.....	5
Salpingitis.....	10
Normal labor.....	77
Accidents of pregnancy.....	15
Other accidents of labor.....	1
Puerperal septicemia.....	1
Puerperal diseases of the breast.....	1
Furuncle.....	2
Acute abscess.....	11
Scabies.....	2
Other diseases of the skin and annexa.....	37
Diseases of the bones.....	7
Diseases of the joints.....	11
Other diseases of the organs of locomotion.....	1
Congenital malformation.....	2
Nurslings discharged from hospital without disease.....	67
Other acute poisonings.....	6
Burns (conflagration excepted).....	3
Traumatism by firearms.....	5
Traumatism by cutting or piercing instruments.....	3
Traumatism by other crushing.....	1
Sprains.....	1
Fractures.....	12
Other external violence.....	17
Diseases not specified or ill-defined.....	3
No disease.....	10
Total.....	778

SURGICAL OPERATIONS.

	Number.	Died.
Digits, multiple.....	1	.....
Ostectomy.....	3	.....
Wiring of fractures, simple.....	1	.....
Wiring of fractures, compound.....	1	.....
Adenectomy, cervical.....	2	1
Adenectomy, inguinal, single.....	6	.....
Adenectomy, inguinal, double.....	4	.....
Herniotomy, inguinal, single.....	10	.....

TABLE XVI.—SANTO TOMAS HOSPITAL—Continued.

SURGICAL OPERATIONS—Continued.

	Number.	Died.
Herniotomy, inguinal, double.....	1	.....
Herniotomy, ventral.....	1	1
Herniotomy, strangulated.....	1	1
Urethrotomy, external.....	1	.....
Hydrocele, single, radical cure.....	2	.....
Epididymotomy.....	1	.....
Curetage uteri.....	15	.....
Vaginal punctures.....	2	.....
Thoracotomy.....	2	2
Excision of breast and axilla.....	2	.....
Hemorrhoids, radical cure.....	7	.....
Prolapsus rectum.....	1	.....
Varicose veins, excision of.....	1	.....
Excision of surface neoplasm.....	3	.....
Plastic operation for effects of disease.....	15	.....
Skin graft.....	3	.....
Laparotomy exploratory.....	3	1
Gastrostomy.....	1	1
Appendectomy.....	3	.....
Appendectomy with local peritonitis.....	3	.....
Splenectomy.....	1	1
Pan-hysterectomy.....	1	.....
Supravaginal hysterectomy.....	6	.....
Salpingectomy, single.....	1	.....
Salpingectomy, double.....	1	.....
Salpingo-oophorectomy.....	3	.....
Ovarian cystectomy.....	2	.....
Suspensio-uteri.....	5	.....
For ectopic gestation.....	1	.....
Minor operations, various.....	98	.....
Total.....	215	8

TABLE XVII.—SANITATION.

The following is a summary of sanitary work performed and material expended during the month of February, 1916, in the Canal Zone:

Work requests on supply department:	
Grass cutting.....	13
Screening.....	13
Miscellaneous.....	10
Work requests on engineering department.....	10
Work requests on other departments.....	2
Notices served to abate nuisances.....	27
Inspections of closets.....	850
Inspections of shops.....	79
Inspections of stores.....	42
Garbage cans emptied.....	3,074
Closets disinfected.....	1,297
Rat traps in use.....	425
Rats destroyed.....	358
Adult anopheles caught.....	5,359
Adult culices caught.....	4,112
Stegomyia destroyed.....	66
Containers with stegomyia larvæ found.....	15
Larvacide used..... gallons..	507
Kerosene used..... do.....	292
Crude oil used..... do.....	6,346
Number of sewer connections made.....	1

TABLE XVII.—SANITATION—Continued.

SUMMARY OF ROUTINE WORK DONE BY PANAMA HEALTH OFFICE.

Mosquito, rat, and fly work:	
Lineal feet of ditches cleaned and maintained.....	9,269
Lineal feet of new ditches dug.....	0
Number of cubic yards of earth used in filling.....	0
Gallons of larvacide used.....	550
Gallons of crude oil used.....	1,508
Square yards of pools oiled.....	120,228
Water containers treated.....	12,900
Mosquito breeding places found (stegomyia 150).....	219
Fly breeding places found.....	193
Flies trapped, quarts (13,000 per quart).....	0
Number of rats.....	572
Number of room disinfections made.....	14
Garbage collection:	
Number of loads of garbage removed to dump.....	4,499
Number of cubic yards of garbage removed to dump.....	9,001
Total number of cans of garbage emptied.....	41,850
Buildings:	
Number of buildings inspected.....	5,450
Number of plans for new buildings approved.....	20
Number of permits issued for repairs to old buildings.....	94
Total number of building permits issued.....	114
Number of buildings condemned.....	3
Number of buildings demolished (stables 5).....	9
Number of stables condemned.....	1
Street cleaning:	
Average number of square yards of streets cleaned daily.....	600,000
Average number of square yards sprinkled daily.....	90,000
Number of private properties cleaned.....	14
Number of notices served and nuisances abated.....	335

MONTHLY WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE.

[Health Office, Colon-Cristobal, Feb. 29, 1916.]

Sanitation, Colon, general:	
Square yards street sprinkled.....	655,200
Square yards street cleaned.....	3,740,948
Square yards alleys maintained.....	624,000
Number of private properties cleaned.....	677
Cubic feet fumigated.....	12,096
Number of rats caught.....	208
Loads of yard garbage disposed of.....	623
Number of cans, garbage (cubic yards, 2,225).....	63,326
Linear yards ditches maintained.....	5,035
Acres of vegetation removed, Colon.....	75
Acres of vegetation removed, Washington Hotel.....	7
Acres of vegetation removed, Panama Railroad properties.....	50
Square yards oiled.....	55,395
Number of receptacles treated.....	40,760
Number of fly-breeding places destroyed.....	2
Number of buildings inspected.....	6,565
Gallons of larvacide used in Colon.....	305
Gallons of crude oil used in Colon.....	378
Number of nuisances abated.....	329
Number of plans approved.....	14
Number of permits issued.....	26
Number of permits issued for repairs.....	57
Number bills collected.....	104
Sewers, Colon:	
Number of new connections made during month.....	18
Total number of connections made to date.....	1,262
Number of houses in which connections were made.....	5
Outstanding permits.....	85

TABLE XVII.—SANITATION—Continued.

MONTHLY WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE—Continued.

Sanitation, Cristobal:

Number of cans, garbage (cubic yards, 690).....	13,416
Loads of yard garbage handled.....	111
Number of receptacles treated.....	7,700
Number of fly-breeding places destroyed.....	4
Gallons of crude oil used.....	42
Gallons of larvacide used.....	37
Number of buildings inspected.....	1,170
Number of nuisances abated.....	33

Sanitation, Mount Hope:

Number of cans, garbage (185 cubic yards).....	1,740
Square yards oiled.....	30,700
Number of receptacles treated.....	10,420
Number of mosquito-breeding places destroyed.....	70
Number of mosquitoes caught in barracks—	
Anopheles.....	118
Culex.....	155
Gallons larvacide used.....	213
Gallons crude oil used.....	630
Square yards of vegetation removed.....	130,494
Number of burials during month.....	45
Linear yards of ditches constructed.....	1,162

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

Vessels inspected and passed.....	90	
Vessels held in quarantine.....	13	
Total vessels entered.....		103
Special inspections made to enforce compliance with antiplague and mosquito-breeding regulations.....	69	
Vessels fumigated on arrival.....	10	
Vessels fumigated on departure.....	1	11
Crew examined.....	7,778	
Passengers examined.....	4,285	12,063
Supplementary inspections.....	1,428	
Stowaways.....	2	
Persons vaccinated at ports of arrival because of compulsory vaccination law.....	360	
Persons vaccinated at ports of departure or en route because of compulsory vaccination law.....	372	732
Persons held in quarantine at the detention houses to complete period of incubation of yellow fever and plague.....	390	
Persons held in quarantine on board vessels to complete period of incubation of yellow fever and plague.....	1,652	
Total persons held under observation.....		2,042
Total persons landed from foreign ports:		
Cabin.....	1,839	
Steerage.....	1,121	2,960
Total persons embarked for foreign ports:		
Cabin.....	1,808	
Steerage.....	1,019	2,827
Total persons arriving from coast towns on small launches and sailing craft.....	1,846	

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

Total persons sailing for coast towns on small launches and sailing craft.....	2,101	
Apparent decrease for month from coast towns.....		255
Apparent increase for month from foreign ports:		
Cabin.....	31	
Steerage.....	102	
Net increase for month.....		133
Persons rejected and deported.....		8
Bills of health issued or viscéé.....		103
Inspections of docks.....		24
Inspections of vessels at docks.....		93
Total persons landed.....	4,806	
Less number for Pacific ports.....	169	
	4,637	
Total persons sailing.....	4,928	
Total apparent decrease for month.....		291

IMMIGRATION REPORT FOR COLON-CRISTOBAL.

From—	Cabin.	Steerage.
Europe.....	10	11
United States.....	908	303
Jamaica and West Indies.....	143	364
Venezuela.....	7	4
Colombia.....	57	85
Cuba.....	63	7
Costa Rica.....	179	37
Bocas del Toro.....	73	166
Coast towns.....		204
Total.....	1,440	1,181

Men.....	1,121
Women.....	629
Children.....	380
United States troops.....	287
Unclassified.....	204
Total.....	2,621

QUARANTINE—BOCAS DEL TORO.

Number of vessels inspected and passed.....	13
Number of crew inspected and passed.....	908
Number of passengers inspected and passed.....	177
Number of passengers, transit, inspected and passed.....	368

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

TABLE XIX.—STATEMENT OF QUININE ISSUED.

	Kilos.
Quinine sulphate.....	20.15
Quinine capsules—200 5-grain.....	0
Total.....	20.15

Pounds avoirdupois, 44.42.

TABLE XX.—PERSONNEL REPORT.

	February, 1916.			January, 1916.	Febru- ary, 1915.
	Gold employ- ees.	Silver employ- ees.	Total.	Total.	Total.
Chief health office.....	4	.....	4	4	3
Medical storehouse.....	4	4	8	8	8
Quarantine division.....	8	33	41	43	42
Health office:					
Panama.....	11	141	152	168	143
Colon ¹	8	164	172	164	112
Ancon Hospital.....	108	241	349	340	333
Colon Hospital.....	14	25	39	39	33
Santo Tomas Hospital.....	5	.....	5	5	4
Palo Seco Leper Asylum.....	2	21	23	22	21
Zone sanitation.....	6	106	112	116	114
Hospital farm.....	1	54	55	54	44
Dispensaries:					
Balboa.....	4	2	6	6	5
Corozal.....	.....	.....	.....	.....	4
Culebra.....	.....	.....	.....	.....	2
Gamboa.....	1	.....	1	1	1
Gatun.....	2	2	4	5	4
Naos Island.....	.....	.....	.....	.....	1
Paraiso.....	2	2	4	4	4
Pedro Miguel.....	2	1	3	3	3
Total.....	182	796	978	982	881

¹ Includes health office at Mount Hope.

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