

# Public Health Reports

Treasury Department, United States Marine-Hospital Service. Published in accordance with act of Congress approved February 15, 1893.

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## UNITED STATES.

*Circular letter relating to post-epidemic disinfection and aeration.*

TREASURY DEPARTMENT,  
OFFICE OF SUPERVISING SURGEON-GENERAL,  
U. S. MARINE-HOSPITAL SERVICE,  
*Washington, D. C., December 1, 1897.*

*To commissioned officers of the Marine-Hospital Service,  
acting assistant surgeons, and State and municipal health officers:*

Referring to circular letter issued by this Bureau October 11, 1897, in which attention was called to the importance of keeping a record of the name of each person contracting yellow fever and the street and number of each house where yellow fever occurred, I have to state that inasmuch as the fever has disappeared in the South, it is now deemed necessary to begin the work of post-epidemic disinfection. In order that the same may be uniform and thorough in its character the following plan is recommended:

### HOUSE TO HOUSE INSPECTION.

(a) The medical officer in command shall make, or cause to be made, house to house inspection of all infected localities and obtain complete lists (giving number and street when practicable) of all buildings, whether private dwellings, public houses, or hospitals in which yellow fever occurred or where suspicious disease existed during the past summer and fall, the city or town to be divided into districts.

(b) This inspection should be made by competent sanitary officers, under direction of the medical officer in command, and every part of the premises must be carefully inspected, including the rooms, basements, cellars, passages, closets, and garrets; the sinks, drains, cess-

pools, latrines, privies, or water-closets; the stables, sheds, outhouses, pens, etc.

(c) The inspection is not only for the purposes of disinfection, but also is intended to place each house and its surroundings in a perfectly sanitary condition, and includes the inspection of all streets, alleys, and byways.

(d) The inspection should include an examination into the water supply, and particularly as to the proximity of wells, cisterns, and springs to the privies, stables, pens, and other suspicious surroundings.

#### LIST OF YELLOW FEVER SUFFERERS AND SUSPECTS.

A complete list of all persons exposed to, or who may have contracted the disease, with the result in each case.

(a) If death resulted, where buried and under what precautions.

(b) If recovered or removed to another domicile in the same city, town, or place (or if departed from the neighborhood), ascertain all facts and make note of the same in order that it may be determined what action shall be taken in each case.

#### GENERAL DISINFECTION.

(a) It is recommended that after the inspection above provided for has been made, the medical officer shall designate a competent sanitary officer to perform the thorough disinfection and cleansing of all houses and premises which he may have decided require the same, said disinfection to begin as soon as practicable after the inspection referred to has been made in any locality.

(b) It is recommended that the removal of all refuse, garbage, and other deleterious matter be included in the work of disinfection, and that all articles of little value, such as old rags and other accumulations of worthless material, be destroyed, whether found in dwellings or "slop-shops."

(c) It is recommended that the inspectors inform all parties whose houses are visited, that no injury to their houses or contents will result from the disinfection contemplated, that even the most delicate fabrics can now be rendered free from contagion by a harmless process of disinfection, and that it is absolutely necessary for the protection of themselves and the community in which they live.

#### DISINFECTION OF HOUSES.

(a) The use of formaldehyd generators, or lamps, is recommended for the disinfection of houses and their contents. The details of their management for generating and applying formaldehyd gas should be fully understood by the sanitary officers in charge of the work.

(b) All the contents of the houses, including wearing apparel of every description, should be spread about the rooms; bedding or mat-

tresses not used by the sick should be placed upon the chairs or tables, or, better still, hung up in the yards and beaten; soiled bedding and mattresses used by the sick should be steamed or destroyed; trunks, closets, and bureau drawers, and all closed receptacles, should be opened and their contents exposed.

#### AERATION.

Both before and after disinfection the houses should be opened and thoroughly aired—"chilled," if the weather is favorable—and, later on, all the rooms, closets, etc., should be exposed to several hours of airing during freezing weather, and repeated at intervals during the winter.

#### DISINFECTION OF STABLES, PENS, ETC.

The use of bichloride of mercury solution, 1-500, or carbolic acid solution, 50 parts to 1,000 parts (applied by means of a spray), is deemed sufficient if all exposed surfaces are completely saturated. Privies may be disinfected by chloride of lime or strong solution of carbolic acid.

WALTER WYMAN,  
*Supervising Surgeon-General.*

[Reports to the Supervising Surgeon-General United States Marine-Hospital Service.]

*Yellow fever in the United States as reported to the Supervising Surgeon-General United States Marine-Hospital Service to December 1, 1897. (a)*

States.	Cities.	Date.	Cases.	Deaths.	
Alabama	Alco.....	Oct. 8.....	1	0	
	Bayminette.....	Oct. 14.....	1	1	
	Flomaton.....	To Nov. 24.....	68	0	
	Greensboro.....	Nov. 2.....	1	1	
	Mobile.....	Sept. 13-Sept. 30.....	74	11	
		Oct. 1-Oct. 31.....	5 187	25	
		Nov. 1-Nov. 24.....	100	12	
		Nov. 25.....	1	0	
		Nov. 27.....	1	0	
	Montgomery.....	Oct. 18-Oct. 27.....	104	8	
		Nov. 1-Nov. 10.....	16	3	
		Oct. 25.....	1	0	
		.....do.....	1	0	
		Sandy Ridge.....	Oct. 23-Oct. 31.....	11	1
		Selma.....	Nov. 3.....	0	1
		Nov. 10.....	1	0	
	Wagar.....	To Nov. 3.....	45	3	
	Whistler.....	Oct. 29-Nov. 12.....	122	7	
Florida	Fort Barrancas.....	Nov. 18.....	1	1	
		Nov. 21.....	1	0	
		Nov. 22.....	2	0	
		Nov. 15.....	1	1	
Georgia	Pensacola.....	Oct. 8-Oct. 27.....	c3	0	
	Atlanta.....	Sept. 19-Sept. 20.....	4	0	
Illinois	Cairo.....	Sept. 23.....	1	1	
Kentucky	Louisville.....	Oct. 18-Oct. 31.....	4	2	
Louisiana	Baton Rouge.....	Nov. 11.....	1	0	
		Oct. 14-Oct. 21.....	3	1	
	Franklin.....	Sept. 8-Sept. 30.....	226	27	
	New Orleans.....	Oct. 1-Oct. 31.....	1,285	149	
		Nov. 1-Nov. 24.....	371	99	
		Nov. 25.....	4	2	
		Nov. 26.....	2	3	
		Nov. 27.....	4	2	
		Nov. 28.....	1	1	
		Nov. 29.....	0	0	
		Oct. 21.....	1	0	
		Patterson.....			

a For daily reports of cases and deaths, see previous PUBLIC HEALTH REPORTS.  
b Two in vicinity.  
c Refugees.

*Yellow fever in the United States, etc.—Continued.*

States.	Cities.	Date.	Cases.	Deaths.
Mississippi	Barkley	Sept. 13—Sept. 18	10	4
	Bay St. Louis	Oct. 17—Oct. 28	40	4
	Biloxi	Sept. 1—Sept. 30	132	7
		Oct. 1—Oct. 31	418	17
	Cayuga	Nov. 1—Nov. 24	42	3
		Oct. 16—Oct. 28	24	1
	Clinton	Nov. 5	1	0
		Oct. 7—Oct. 31	37	2
	County Farm	Nov. 12—Nov. 15	5	0
		Oct. 25	1	0
	Durant	Nov. 5	1	0
		Nov. 1	1	1
	Edwards	Sept. 15—Sept. 30	212	6
		Oct. 1—Oct. 31	229	22
	Hendersons Point	Nov. 1—Nov. 17	14	1
		Oct. 7	3	0
	Hinds County Convict Camp, near Raymond.	Oct. 23—Oct. 27	6	0
		Sept. 30—Oct. 31	29	1
	McHenry	Nov. 2	1	0
		Oct. 3—Oct. 31	21	1
	Nitta Yuma	Nov. 1—Nov. 10	6	6
		Sept. 8—Sept. 30	23	6
	Ocean Springs	Oct. 14—Oct. 31	27	1
		Nov. 1—Nov. 10	8	1
	Pascagoula	Sept. 10	1	0
		Sept. 10—Sept. 30	39	3
Perkinston	Oct. 1—Oct. 31	281	10	
	Nov. 1—Nov. 18	43	5	
Scranton	To Oct. 20	4	0	
	Nov. 2—Nov. 3	8	0	
Waveland	Oct. 22—Oct. 31	40	5	
	Nov. 1—Nov. 10	12	9	
West Pascagoula	Sept. 22	1	0	
	Oct. 12	12	0	
Tennessee	Galveston	Oct. 27	(a)	.....
	Houston	Oct. 11	3	0
Texas				

a Yellow fever reported; cases not given.

*No new cases of yellow fever in New Orleans on November 29.*

[Telegram.]

NEW ORLEANS, LA., *November 29, 1897.*

No new cases and no deaths for the last twenty-four hours.

S. R. OLLIPHANT, M. D.,

*President Louisiana State Board of Health.*

*Smallpox in Atlanta.*

ATLANTA, GA., *November 26, 1897.*

SIR: I have the honor to submit the following synopsis of the existing smallpox at this place since Surgeon Sawtelle's last report:

Total number of new cases since November 19, 1897	15
Discharged since November 19, 1897	1
Previously discharged	11
Death previously reported	1
Total number in hospital to-day	82
Total number in quarantine, suspects	35

This disease is almost wholly confined to the colored race, among whom vaccination is extremely difficult to accomplish, they evading the law in every possible manner.

Very respectfully,

J. M. CUNNINGHAM, M. D.,  
*Acting Assistant Surgeon, U. S. M. H. S.*

*Smallpox in the United States as reported to the Supervising Surgeon-General United States Marine-Hospital Service, December 29, 1896, to December 3, 1897.*

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Alabama:</b>				
Bessemer.....	Sept. 26-Oct. 2.....	1		
Birmingham and adjacent country.....	May 8-Aug. 12.....	96	1	5 cases varioloid.
	Aug. 21-Oct. 16.....	68		
	Nov. 1-Nov. 21.....	24	1	
Brockton.....	Aug. 29.....	1		
Mobile.....	Dec. 28-Jan. 26.....	2		
	Mar. 28.....	1		
	Apr. 17.....	1		
	May 21.....	1		
	May 31.....	1		
Montgomery.....	Aug. 7-Aug. 13.....	28		
Union Springs.....	Mar. 21.....		1	
<b>Connecticut:</b>				
New Haven.....	Feb. 17.....	1		
<b>Florida:</b>				
Pensacola.....	Jan. 19-Feb. 20.....	18		12 varioloid. Varioloid. Do. Do. Do. Do.
	Feb. 28-Mar. 10.....	14		
	Mar. 27-Apr. 3.....	3		
	Apr. 10-May 1.....	10		
	May 2-May 22.....	7		
	May 29-June 5.....	2		
	July 4-July 10.....			
Escambia County (not including Pensacola).....	Dec. 2-Jan. 19.....	18		1 case varioloid.
<b>Georgia:</b>				
Atlanta.....	Oct. 12-Nov. 26.....	90	1	
<b>Illinois:</b>				
Chicago.....	Mar. 25.....			Smallpox reported; brought from Mexico.
	Mar. 27-Apr. 3.....		1	
	Apr. 10-Apr. 17.....	2		
	May 8-May 15.....		1	
<b>Indiana:</b>				
Greenwood.....	Feb. 12.....	1		
<b>Louisiana:</b>				
New Orleans.....	Sept. 8.....	1		Varioloid.
	Oct. 23.....	1		
<b>Massachusetts:</b>				
Boston.....	May 1-May 8.....	4		Varioloid. 1 smallpox.
	May 22-May 29.....	1		
Cambridge.....	June 6-June 26.....	3		
Gloucester.....	June 19-June 26.....	1	2	
New Bedford.....	Apr. 10-Apr. 17.....	1		
<b>Michigan:</b>				
Bay City.....	Oct. 27-Nov. 20.....	3		Smallpox reported. Do.
Blissfield Township.....	Mar. 27-Apr. 10.....			
	Apr. 17-May 1.....			
<b>Missouri:</b>				
St. Louis.....	April 29.....	2		
	May 1-May 22.....	2	3	
<b>New Mexico:</b>				
Albuquerque.....	Sept. 19.....	1		
<b>New York:</b>				
Brooklyn.....	Apr. 24-June 26.....	5	2	Do.
	June 27-July 24.....	2	1	
New York.....	Mar. 1-Mar. 31.....		2	
	Apr. 17-May 15.....		10	
	June 13-June 19.....		3	
	July 4-July 24.....		3	
<b>Ohio:</b>				
Toledo.....	Apr. 1-May 31.....	14	2	
	June 1-June 30.....	4	1	
<b>Pennsylvania:</b>				
Drifton.....	Apr. 6.....	1		
McKeesport.....	Oct. 16-Oct. 23.....	1		
<b>Tennessee:</b>				
Memphis.....	Apr. 1-June 26.....	21		
	July 4-July 17.....	3		
	Aug. 15-Aug. 21.....	1		
	Oct. 14-Oct. 23.....	8		
<b>Washington:</b>				
Tacoma.....	Feb. 6.....	1		
Olympia.....	Mar. 1.....	1		

*Report of immigration at Boston for the week ended November 27, 1897.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Boston, November 29, 1897.**Number of alien immigrants who arrived at this port during the week ended November 27, 1897;  
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of im- migrants.
Nov. 21	Steamship Boston.....	Yarmouth, Nova Scotia.....	49
Do....	Steamship Norseman.....	Liverpool, England.....	3
Nov. 22	Steamship Halifax.....	Halifax, Nova Scotia.....	69
Do....	Steamship Bostonian.....	London, England.....	3
Do....	Schooner T. V. Dexter.....	Liverpool, Nova Scotia.....	8
Do....	Steamship Catalonia.....	Liverpool, England.....	81
Do....	Schooner Citizen.....	La Have, Nova Scotia.....	3
Do....	Brigantine Marguerite.....	St. Pierre Miquelon.....	1
Nov. 23	Steamship Belvidere.....	Port Morant, Jamaica.....	1
Nov. 24	Steamship Prince Edward.....	Yarmouth, Nova Scotia.....	41
Nov. 25	Steamship Boston.....	do.....	43
Nov. 27	Steamship Prince Edward.....	do.....	24
Do....	Steamship Scandinavian.....	Glasgow, Scotland.....	5
Do....	Schooner Majestic.....	La Have, Nova Scotia.....	1
	Total.....		332

GEO. B. BILLINGS,  
*Commissioner.**Report of immigration at New York for the week ended November 27, 1897.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of New York, November 29, 1897.**Number of alien immigrants who arrived at this port during the week ended November 27, 1897;  
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of im- migrants.
Nov. 23	Steamship Obdam.....	Rotterdam.....	183
Do....	Steamship Anchoria.....	Glasgow.....	119
Nov. 24	Steamship Hekia.....	Copenhagen.....	92
Do....	Steamship Bolivia.....	Glasgow.....	403
Do....	Steamship Werra.....	Bremen.....	333
Do....	Steamship Westernland.....	Antwerp.....	172
Nov. 25	Steamship Karlshue.....	Bremen.....	442
Do....	Steamship Spree.....	do.....	267
Do....	Steamship Patria.....	Hamburg.....	54
Nov. 27	Steamship Paris.....	Southampton.....	77
Do....	Steamship Adriatic.....	Liverpool.....	129
Nov. 28	Steamship Pennsylvania.....	Hamburg.....	58
Do....	Steamship Georgia.....	Stettin.....	13
Do....	Steamship Scotia.....	Hamburg.....	78
Do....	Steamship Etruria.....	Liverpool.....	131
Do....	Steamship Patria.....	Marseilles and Naples.....	401
Do....	Steamship La Touraine.....	Havre.....	264
Do....	Steamship Ovenum.....	The Azores.....	28
	Total.....		3,244

THOMAS FITCHIE,  
*Commissioner.*

*Report of immigration at Philadelphia for the week ended November 27, 1897.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Philadelphia, November 29, 1897.**Number of alien immigrants who arrived at this port during the week ended November 27, 1897 ;  
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of im- migrants.
Nov. 22	Steamship Pennland.....	Liverpool and Queenstown.....	97
Do.....	Steamship Roumanian.....	Glasgow.....	3
Nov. 23	Steamship Navahoe.....	Port de Paix.....	1
Nov. 25	Steamship Nederland.....	Antwerp.....	106
Nov. 27	Steamship Minnesota.....	London.....	2
Do.....	Steamship Waesland.....	Liverpool and Queenstown.....	66
Total .....			275

JNO. J. S. RODGERS,  
*Commissioner.*





San Francisco Quarantine, Cal.	.....do.....	Nor. bk. Emperor.....	Nov. 20	Acapulco.....	San Francisco	Inspected and held .....	.....	3 cases malarial fever. 196 Chinese and 19 Japanese steerage passengers from Am. ss. Rio de Janeiro bathed and their clothing and baggage disinfected.	32
South Atlantic Quarantine, Blackbeard Island, Ga.	.....do.....								1
Tortugas Quarantine, Key West, Fla.	Nov. 13	Am. tug Albert F. Dewey, (a) Three Brothers, (a) Dan. bk. Valparaiso. Am. sc. Mecosta.....	Nov. 6 do..... Nov. 12 do.....	Habana..... do..... Bahia..... Matanzas.....	Punta Gorda..... do..... Apalachicola..... Pensacola.....	Disinfected..... do..... Held for disinfection. Disinfected and held .....	Nov. 12 do..... do..... do.....		1
Washington, N. C.	Nov. 27							No transactions	

<sup>a</sup> Previously reported.

QUARANTINE REPORTS—Continued.  
State and municipal quarantine stations.

[Vessels named only when detained or given treatment at quarantine.]

Name of station.	Week ended.	Name of vessel.	Date of arrival.	Port of departure.	Destination.	Treatment of vessel, passengers, and cargo.	Date of departure.	Remarks.	Vessels inspected and passed.
Anclote, Fla.								No report.	
Apalachicola, Fla.								do	
Bangor, Me.								do	
Boston, Mass.	Nov. 27								18
Carrabelle, Fla.	Nov. 20	Sc. H. B. Haman (a)	Nov. 11	San Juan	Apalachicola.	Disinfected and held.	Nov. 15		
	Nov. 27	Am. sc. Chas. L. Mitchell.	Nov. 24	Surinam.	do.	do.			3
Cedar Keys, Fla.								No report.	
Charleston, S. C.	Nov. 27							No report.	3
Charlotte Harbor, Fla.								No report.	
Elizabeth River, Va.	Nov. 27							No report.	12
Galveston, Tex.								do	
Gardiner, Oreg.								No report.	
Georgetown, S. C.	Nov. 27							No transactions.	
Gloucester, Mass.								No report.	
Key West, Monroe Co., Fla.	Nov. 27							No report.	4
Mayport, Fla.								No report.	
Mobile Bay, Ala.								do	
New Bedford, Mass.								do	
New Orleans, La.								do	
Newport News, Va.	Nov. 27							do	8
								Ss. H. M. Pollock, from Kingston, Jamaica, had foul bill of health and was ordered to Cape Charles Quarantine.	
Newport, R. I.								No report.	
New York, N. Y.								do	
Port Royal, S. C.	Nov. 27							No transactions.	
Providence, R. I.	do							do	
St. Helena Entrance, Fla.								No report.	19
Savannah, Ga.	Nov. 20	Aust. bk. Mazuranica.	Nov. 9	Santos	Savannah.	Ballast discharged and vessel fumigated.	Nov. 15		
		Nor. bk. Seier (a).	Nov. 11	Capetown via Barbados.	do.	do.	Nov. 14		
		Nor. bk. Ronheur.	Nov. 14	Para.	do.	do.	Nov. 17		
		Sp. ss. Martin Saenz.	Nov. 18	Habana	do.	Disinfected.	Nov. 19		

Savannah, Ga. ....	Nov. 27	Nor. bk. Faront. ....	Nov. 24	Para. ....	do	Ballast discharged, vessel undergoing disinfection. Under observation.....	.....	.....	.....	One case malarial fever on voyage. Four cases of malarial fever at Tampico, 1 at Progreso, and 2 at New York. One death from malarial fever on voyage from New York to Savannah.
Tampa Bay, Fla. ....		Br. ss. Buckingham ...	Nov. 27	Progreso via N. Y.	do	.....	.....	.....	.....	No report.....

a. Previously reported.

*Reports of States and yearly and monthly reports of cities.*

**MICHIGAN.**—Week ended November 20, 1897. Reports to the State board of health, Lansing, from 58 observers indicate that inflammation of kidney and remittent fever increased in area of prevalence. Phthisis pulmonalis was reported present during the week at 169, enteric fever at 65, diphtheria at 41, scarlet fever at 30, measles at 19, whooping cough at 5, and smallpox at 1 place (Bay City).

*Grand Rapids.*—Month of October, 1897. Estimated population, 90,000. Total deaths, 88, including phthisis pulmonalis, 9; scarlet fever, 1, and diphtheria, 2.

**MISSOURI—Kansas City.**—Month of October, 1897. Estimated population, 175,000. Total deaths, 132, including phthisis pulmonalis, 8; enteric fever, 8; diphtheria, 3, and croup, 1.

*St. Louis.*—Month of October, 1897. Estimated population, 600,000. Total deaths, 702, including phthisis pulmonalis, 78; enteric fever, 17; diphtheria, 23; croup, 9, and whooping cough, 5.

**OHIO—Columbus.**—Month of October, 1897. Estimated population, 135,000. Total deaths, 102, including phthisis pulmonalis, 17; enteric fever, 2; scarlet fever, 1, and diphtheria, 2.



MORTALITY TABLE, CITIES OF THE UNITED STATES—Continued.

Cities.	Week ended.	Population, U. S. Census of 1890.	Total deaths from all causes.	Deaths from—										
				Phthisis pulmonalis.	Yellow fever.	Smallpox.	Varioloid.	Cholera.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Washington, D. C.....	Nov. 27.....	230,392	108	16	.....	.....	.....	.....	.....	2	1	4	.....	.....
West Newton, Mass.....	.....do.....	24,379	7	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....
Winona, Minn.....	Nov. 20.....	18,208	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woburn, Mass.....	Nov. 27.....	13,499	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Worcester, Mass.....	Nov. 19.....	84,655	37	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....
Yonkers, N. Y.....	Nov. 26.....	32,033	14	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Youngstown, Ohio.....	Nov. 27.....	33,220	11	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2

Table of temperature and rainfall, week ended November 22, 1897.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	αExcess.	αDefic'ncy.	Normal.	Excess.	Deficiency.
<b>Atlantic Coast:</b>						
Eastport, Me.....	35		3	.98		.38
Portland, Me.....	37		3	.95		.52
Northfield, Vt.....	32		1	.77		.55
Boston, Mass.....	39	0		1.05		.65
Vineyard Haven, Mass.....	44	1		.70		.28
Nantucket, Mass.....	44	1		.84		.65
Woods Hole, Mass.....	42		1	1.14		.94
Block Island, R. I.....	43	1		.98		.29
New Haven, Conn.....	39		1	.91		.52
Albany, N. Y.....	37	0		.70		.29
New York, N. Y.....	41	1		.91		.67
Harrisburg, Pa.....	41	1		.63		.56
Philadelphia, Pa.....	42	3		.77		.62
New Brunswick, N. J.....	43	1		.90		.58
Atlantic City, N. J.....	44	2		.84		.74
Baltimore, Md.....	43	5		.70		.66
Washington, D. C.....	43	5		.63		.60
Lynchburg, Va.....	44	7		.70		.70
Cape Henry, Va.....	51	3		.82		.73
Norfolk, Va.....	49	5		.70		.60
Charlotte, N. C.....	48	4		.70		.70
Raleigh, N. C.....	48	5		.39		.37
Kittyhawk, N. C.....	52			.97		
Hatteras, N. C.....	55	1		1.19		1.19
Wilmington, N. C.....	53	4		.52		.52
Columbia, S. C.....	54	2		.56		.56
Charleston, S. C.....	56	5		.70		.70
Augusta, Ga.....	52	3		.73		.73
Savannah, Ga.....	57	4		.49		.47
Jacksonville, Fla.....	60	5		.56		.56
Jupiter, Fla.....	72	2		.70	1.41	
Key West, Fla.....	74	1		.49	.76	
<b>Gulf States:</b>						
Atlanta, Ga.....	49	5		.84		.84
Tampa, Fla.....	64	6		.49		.49
Pensacola, Fla.....	58	4		.91		.91
Mobile, Ala.....	57			.91		
Montgomery, Ala.....	54	3		.82		.82
Vicksburg, Miss.....	51	4		1.19		.72
New Orleans, La.....	60	4		.98		.98
Shreveport, La.....	53	5		1.23		.66
Fort Smith, Ark.....	48	5		.91		.80
Little Rock, Ark.....	48	5		1.33		.58
Palestine, Tex.....	56	2		1.11		1.11
Galveston, Tex.....	61	3		1.05		.96
San Antonio, Tex.....	57	3		.54		.26
Corpus Christi, Tex.....	61	1		.79		.78
<b>Ohio Valley and Tennessee:</b>						
Memphis, Tenn.....	47	8		1.18		.01
Nashville, Tenn.....	46	7		.98		.33
Chattanooga, Tenn.....	48	4		.91		.78
Knoxville, Tenn.....	45	4		.91		.79
Louisville, Ky.....	43	7		1.04		.35
Indianapolis, Ind.....	39	8		.97	.35	
Cincinnati, Ohio.....	42	7		.84	.06	
Columbus, Ohio.....	39	6		.84	.23	
Parkersburg, W. Va.....	42	4		.77		.45
Pittsburg, Pa.....	41	6		.57	.14	
<b>Lake Region:</b>						
Oswego, N. Y.....	37	0		.82	.00	
Rochester, N. Y.....	35	6		.63		.25
Buffalo, N. Y.....	36	7		.84	.05	
Erie, Pa.....	39	5		.94		.37
Cleveland, Ohio.....	37	7		.68		.29
Sandusky, Ohio.....	39	6		.73	.30	
Toledo, Ohio.....	37	6		.70	.75	
Detroit, Mich.....	36	4		.63	.20	
Lansing, Mich.....	35	3		.54	.10	
Port Huron, Mich.....	34	4		.66		.17
Alpena, Mich.....	31	4		.63		.26
Sault Ste. Marie, Mich.....	28	2		.56	.65	
Marquette, Mich.....	29	2		.63		.82
Green Bay, Wis.....	29	7		.56		.56

α The figures in these columns represent the average daily departure.

Table of temperature and rainfall, week ended November 22, 1897—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	a Excess.	a Defic'y.	Normal.	Excess.	Deficiency.
<b>Lake Region—Continued.</b>						
Grand Haven, Mich.....	35	4	.....	.70	.....	.43
Milwaukee, Wis.....	33	6	.....	.49	.....	.36
Chicago, Ill.....	36	6	.....	.63	.....	.30
Duluth, Minn.....	27	1	.....	.35	.....	.34
<b>Upper Mississippi Valley:</b>						
St. Paul, Minn.....	27	7	.....	.21	.....	.21
La Crosse, Wis.....	31	6	.....	.35	.....	.35
Dubuque, Iowa.....	32	8	.....	.49	.....	.39
Davenport, Iowa.....	34	9	.....	.49	.....	.29
Des Moines, Iowa.....	34	7	.....	.35	.....	.31
Keokuk, Iowa.....	36	10	.....	.49	.....	.45
Springfield, Ill.....	38	6	.....	.70	.22	.....
Cairo, Ill.....	44	10	.....	1.05	.39	.....
St. Louis, Mo.....	41	9	.....	.70	.70	.....
<b>Missouri Valley:</b>						
Columbia, Mo.....	41	8	.....	.76	.....	.74
Springfield, Mo.....	41	10	.....	.84	.....	.80
Kansas City, Mo.....	37	11	.....	.49	.....	.46
Wichita, Kans.....	40	6	.....	.21	.....	.21
Concordia, Kans.....	38	5	.....	.21	.....	.21
Lincoln, Nebr.....	37	4	.....	.14	.....	.14
Omaha, Nebr.....	33	5	.....	.21	.....	.21
Sioux City, Iowa.....	32	4	.....	.17	.....	.15
Yankton, S. Dak.....	30	8	.....	.14	.....	.....
Valentine, Nebr.....	32	7	.....	.07	.21	.....
Huron, S. Dak.....	27	5	.....	.14	.....	.12
Pierre, S. Dak.....	30	4	.....	.08	.....	.01
Moorhead, Minn.....	21	4	.....	.21	.....	.21
Bismarck, N. Dak.....	22	5	.....	.14	.....	.06
Williston, N. Dak.....	22	.....	2	.14	.....	.09
<b>Rocky Mountain Region:</b>						
Havre, Mont.....	26	.....	11	.14	.19	.....
Helena, Mont.....	31	3	.....	.14	.16	.....
Miles City, Mont.....	29	0	.....	.07	.03	.....
Rapid City, S. Dak.....	33	4	.....	.07	.00	.....
Spokane, Wash.....	36	1	.....	.42	1.56	.....
Wallawalla, Wash.....	40	2	.....	.32	.76	.....
Baker City, Oreg.....	34	6	.....	.21	.....	.09
Winnemucca, Nev.....	36	13	.....	.14	.01	.....
Salt Lake City, Utah.....	38	7	.....	.29	.....	.15
Lander, Wyo.....	25	13	.....	.18	.....	.18
Cheyenne, Wyo.....	32	9	.....	.07	.01	.....
North Platte, Nebr.....	33	9	.....	.07	.....	.07
Denver, Colo.....	36	9	.....	.14	.....	.11
Pueblo, Colo.....	38	.....	.....	.07	.....	.....
Dodge City, Kans.....	37	9	.....	.07	.....	.05
Oklahoma, Okla.....	48	1	.....	.42	.....	.42
Amarillo, Tex.....	44	5	.....	.07	.....	.07
Abilene, Tex.....	50	6	.....	.28	.....	.28
Santa Fe, N. Mex.....	36	8	.....	.14	.....	.14
El Paso, Tex.....	50	6	.....	.12	.....	.12
Phoenix, Ariz.....	56	10	.....	.09	.....	.09
<b>Pacific Coast:</b>						
Fort Canby, Wash.....	47	.....	3	2.13	3.58	.....
Portland, Oreg.....	44	0	.....	1.38	4.86	.....
Roseburg, Oreg.....	44	1	.....	.88	.53	.....
Eureka, Cal.....	50	4	.....	1.00	.29	.....
Redbluff, Cal.....	53	.....	3	.78	.42	.....
Carson City, Nev.....	41	6	.....	.39	.19	.....
Sacramento, Cal.....	52	0	.....	.54	.....	.32
San Francisco, Cal.....	56	.....	2	.68	.....	.57
Fresno, Cal.....	55	1	.....	.28	.....	.26
Los Angeles, Cal.....	58	10	.....	.33	.....	.33
San Diego, Cal.....	58	.....	.....	.21	.....	.....
Yuma, Ariz.....	61	5	.....	.07	.....	.07

a The figures in these columns represent the average daily departure.



## FOREIGN.

[Reports received from United States consuls through the Department of State and from other sources.]

*Cholera, yellow fever, and plague as reported to the Supervising Surgeon-General United States Marine-Hospital Service, December 29, 1896, to December 3, 1897.*

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>India :</b>				
Bombay .....	Dec. 8-Dec. 15.....		1	
	Dec. 22-Dec. 29.....		1	
	Mar. 23-Mar. 30.....		1	
	Mar. 31-June 29.....		68	
	July 1-Aug. 3.....		386	
	Aug. 4-Aug. 31.....		509	
	Sept. 1-Sept. 23.....		138	
	Sept. 29-Oct. 26.....		86	
	Nov. 14-Jan. 30.....		267	
Calcutta.....	Jan. 31-Feb. 27.....		311	
	Feb. 28-Mar. 6.....		125	
	Mar. 6-May 29.....		1,310	
	May 30-June 26.....		176	
	June 27-July 31.....		118	
	Aug. 1-Aug. 23.....		22	
	Aug. 29-Oct. 2.....		48	
	Oct. 3-Oct. 16.....		13	
	Nov. 21-Nov. 27.....		2	
Madras.....	Nov. 28-Dec. 4.....		1	
	Dec. 12-Dec. 25.....		6	
	Dec. 26-Jan. 29.....		22	
	Jan. 30-Feb. 26.....		13	
	Feb. 27-Mar. 5.....		2	
	Mar. 6-Mar. 19.....		1	
	Mar. 20-Mar. 26.....		2	
	May 29-June 25.....		4	
	June 26-July 30.....		12	
	July 31-Aug. 27.....		28	
	Aug. 28-Oct. 1.....		57	
Singapore.....	Oct. 2-Oct. 22.....		11	
	Nov. 1-Nov. 30.....		12	
	Dec. 1-Dec. 31.....		5	
	June 1-June 30.....		1	
Aug. 1-Aug. 31.....		1		
<b>Ceylon :</b>				
Colombo .....	Nov. 28-Jan. 23.....		114	
	Jan. 23-Jan. 30.....	1	1	
	July 3-July 17.....	4	4	
<b>China :</b>				
Hongkong.....	Sept. 4-Sept. 11.....		1	
<b>England :</b>				
Plymouth.....	Jan. 9.....		4	On steamship Nubia. No cases in city.
<b>Japan :</b>				
Chiba Ken .....	July 20-Aug. 3.....	4	3	
Fukuoka Ken.....	June 28-Aug. 3.....	6	4	
Hiogo Ken .....	June 28-July 6.....	1	1	
Kanagawa Ken.....	July 7-Aug. 3.....	13	9	
	Sept. 23-Sept. 30.....	1	1	
Kioto Fu.....	July 16-Aug. 3.....	2	1	
Okinawa.....	July 30-Aug. 3.....	1	1	
Osaka.....	May 1-July 6.....	13	2	
Osaka and Hiogo.....	July 16-July 25.....	2	2	
	Aug. 1-Sept. 4.....	5	8	
Oyama Ken.....	June 28-July 6.....	1	1	
Saitama.....	July 16-July 25.....	1	1	
Shiga Ken.....	July 20-Aug. 3.....	1	1	
Tochigi Ken .....	July 20-Aug. 3.....	1	1	
Tokyo .....	Dec. 4-Dec. 29.....	8	7	
	Dec. 30-Jan. 18.....	3	3	
	June 28-Aug. 3.....	28	10	
	Sept. 3-Sept. 30.....	18	7	
	Oct. 1-Oct. 10.....	3	1	
Yamanashi Ken.....	July 7-July 15.....	1	1	
Yamaguchi Ken .....	July 20-Aug. 3.....	1	3	
Yokohama.....	Dec. 4-Dec. 29.....	4	8	
	Dec. 30-Jan. 18.....	2	2	

## Cholera, yellow fever, plague, etc.—Continued.

## YELLOW FEVER.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Brazil:</b>				
Bahia .....	May 13-May 19...	5	3	Yellow fever reported.
	Oct. 4.....		6	
Para.....	Dec. 12-Jan. 30...		32	
	Jan. 31-Feb. 27...		20	
	Feb. 27-Mar. 6...		9	
	Mar. 13-Mar. 20...		3	
	Apr. 3-Apr. 10...		3	
	May 30-June 5...		4	
	June 20-July 3...		7	
	July 4-July 31...		11	
	Aug. 1-Aug. 28...		16	
	Sept. 5-Sept. 25...		12	
	Oct. 2-Oct. 9...		5	
	Oct. 16-Oct. 30...		25	
Rio de Janeiro.....	Nov. 21-Dec. 26...		10	
	Dec. 26-Jan. 30...		28	
	Jan. 31-Feb. 6...	12	6	
	Feb. 13-Feb. 20...	21	16	
	Feb. 20-Mar. 6...		174	
	Mar. 7-May 29...	174	78	
	May 30-July 3...	10	7	
	July 4-July 31...	3	2	
	Aug. 3-Aug. 28...	2	1	
	Aug. 29-Oct. 23...	2	1	
Santos.....	Aug. 1-Aug. 7...	1		
<b>Cuba: a</b>				
Cardenas.....	Dec. 25-Jan. 30...	84	8	
	Jan. 31-Feb. 27...	38	1	
	Apr. 17-June 26...	46	9	
	June 27-July 31...	7	3	
	Aug. 1-Aug. 28...		11	
	Sept. 5-Nov. 13...		10	
	Nov. 14-Nov. 20...		1	
Cienfuegos.....	Dec. 20-Dec. 27...		8	
	Dec. 28-Jan. 17...		2	
	Apr. 4-Apr. 11...		1	
	May 17-May 23...		1	
	June 20-July 25...		30	
	July 26-Aug. 1...		16	
	Aug. 2-Aug. 29...		33	
	Aug. 30-Nov. 14...		27	
	Nov. 15-Nov. 21...		1	
Guantanamo.....	Sept. 1-Sept. 30...		1	
Habana.....	Dec. 17-Dec. 31...	220	79	
	Jan. 1-Jan. 28...	400	144	
	Jan. 28-Feb. 25...	117	44	
	Feb. 25-Mar. 25...	130	38	
	Mar. 25-Apr. 29...	342	85	
	Apr. 30-July 1...	750	279	
	July 2-July 29...		192	
	July 3-Aug. 5...		28	
	Aug. 6-Sept. 2...		108	
	Sept. 3-Sept. 30...		67	
	Oct. 1-Oct. 28...		66	
	Oct. 29-Nov. 4...		11	
	Nov. 5-Nov. 18...		25	
Manzanillo.....	Apr. 1-Apr. 15...		1	
	May 15-May 31...		1	
	June 1-June 15...		1	
	July 2-July 31...		6	
	Aug. 1-Aug. 31...		7	
	Oct. 1-Oct. 31...		11	
Matanzas.....	Dec. 9-Dec. 23...		8	
	Dec. 23-Jan. 27...		19	
	Jan. 27-Feb. 24...		4	
	Feb. 25-Mar. 31...		2	
	Apr. 1-June 30...	9	24	
	July 1-July 28...		17	
	July 29-Aug. 4...		4	
	Aug. 5-Sept. 29...		39	
	Sept. 30-Oct. 27...		10	
	Oct. 28-Nov. 17...		5	
Regla.....	Sept. 1-Sept. 30...		104	
	Oct. 1-Oct. 14...		30	
	Nov. 5-Nov. 18...		32	

a February 28, 1897, 300 cases of yellow fever were reported among the sick soldiers on the Island.

## Cholera, yellow fever, plague, etc.—Continued.

## YELLOW FEVER—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Cuba—Continued.				
Santiago.....	Dec. 5–Dec. 26.....		17	
	Dec. 26–Jan. 30.....		16	
	Jan. 16–Jan. 30.....		5	
	Jan. 30–Feb. 27.....		6	
	Feb. 27–Mar. 27.....		3	
	May 2–July 3.....	54	64	140 cases in military hospital.
	July 4–July 31.....		82	
	Aug. 1–Aug. 28.....		56	
	Aug. 29–Oct. 2.....		74	
	Oct. 3–Oct. 30.....		27	
	Oct. 31–Nov. 20.....		6	
Ecuador:				
Guayaquil.....	Dec. 18–Jan. 10.....		9	
Haiti:				
Cape Haytien.....	Nov. 6.....			Yellow fever reported.
Port au Prince.....	Dec. 1–Dec. 7.....		2	
	Dec. 14.....		3	Yellow fever epidemic.
	Mar. 1–Mar. 8.....		1	
	Nov. 10.....	2	1	
Guadeloupe:				
Basse Terre.....	Jan. 5.....	1		
Jamaica:				
Brownstown, St. Anns.....	Nov. 7–Nov. 13.....	7		
Buff Bay.....	Oct. 17–Nov. 13.....	1	1	
Kingston.....	July 17–July 31.....	2	1	
	Aug. 1–Nov. 13.....	72	31	
Manchester.....	Aug. 1–Nov. 13.....	20	7	
Morant Bay.....	Nov. 7–Nov. 13.....	1	1	
Port Antonio.....	Aug. 1–Nov. 13.....	4	4	
St. Catharine.....	Nov. 7–Nov. 13.....	3		
St. Elizabeth.....	Aug. 1–Nov. 13.....	1	1	
Westmorland.....	Nov. 7–Nov. 13.....	1	1	
Mexico:				
Mazatlan.....	Sept. 26–Oct. 2.....		9	
Vera Cruz.....	June 23.....			Yellow fever reported.
	June 25–July 1.....		2	
	June 29.....		2	
	Oct. 1–Oct. 7.....	a 3		
	Nov. 12–Nov. 18.....		b 1	
Nicaragua:				
Corinto.....	Sept. 6.....			Do.
Leon.....	Sept. 6.....			Do.
	Oct. 1.....		2	Do.
Managua.....	Sept. 6.....			Do.
Peru:				
Callao.....	June 10–June 17.....		2	In harbor on steamship Santiago from Panama.
San Salvador.....	July 1–July 31.....	38	11	
	Aug. 1–Aug. 31.....	54	16	
	Sept. 1–Sept. 30.....	34	12	
United States of Colombia:				
Bocas del Toro.....	Aug. 22.....			1 case yellow fever.
Cartagena.....	Oct. 12.....	7	3	Yellow fever reported epidemic.
Colon.....	May 12–May 25.....		5	
	Aug. 4–Aug. 14.....		1	
Panama.....	Apr. 14.....	20	17	
	June 25.....	91	62	Estimated.
	June 23–July 3.....		12	7
	July 4–Aug. 3.....	33	15	
	Aug. 4–Aug. 13.....	4	2	
	Sept. 13–Oct. 3.....	2	2	

## PLAGUE.

Arabia:				
Jeddah.....	June 10.....	16	23	
Egypt:				
Suez.....	Mar. 31.....			One case of plague on Br. ss. Dilwara from Bombay.

a On steamship Uto.  
b On Sacrificio Island.

*Cholera, yellow fever, plague, etc.—Continued.*

PLAGUE—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>India :</b>				
Bombay (a).....	Dec. 1-Dec. 22.....		694	This is the number of deaths officially reported. The United States consul estimates the number of deaths for the same period at 2,763.
Bombay.....	Dec. 22-Jan. 5.....		738	Estimated deaths for this same period, 2,953.
	Jan. 5-Jan. 12.....		335	Estimated deaths for this same period, 1,388.
	Jan. 12-Jan. 19.....		470	
	Jan. 19-Jan. 26.....		443	Estimated deaths for this same period, 1,462.
	Jan. 26-Feb. 23.....		2,884	Estimated deaths for this same period, 5,845.
	Feb. 23-Mar. 9.....		1,282	Estimated deaths for this same period, 2,265.
	Mar. 9-Mar. 30.....		1,431	Estimated deaths for this same period, 2,730.
	Mar. 31-June 1.....		1,681	Estimated deaths from March 31 to April 20, 2,892.
	June 2-June 29.....		90	
	July 1-Aug. 3.....		52	
	Aug. 4-Aug. 31.....		65	
	Sept. 1-Sept. 28.....		155	
	Sept. 29-Oct. 5.....		44	
	Oct. 6-Oct. 26.....		119	
Calcutta.....	Feb. 6-Feb. 13.....		1	
Karachi.....	Jan. 11.....			Plague epidemic; 220 cases, 214 deaths to date.
Madras.....	Oct. 2-Oct. 22.....		2	
<b>China :</b>				
Amoy.....	June 30.....			Plague epidemic reported.
Hongkong.....	Dec. 13-Dec. 29.....			A few cases.
	May 21-May 29.....	4	2	
	June 6-June 12.....		1	
	June 26-July 17.....		3	
	Sept. 26-Oct. 2.....	1	1	
Macao.....	Apr. 1-May 31.....		154	
	June 1-June 3.....	43		
	June 1.....			Plague epidemic reported.
Swato.....	May 4.....			Epidemic of plague reported.
<b>Japan :</b>				
Formosa.....	Nov. 6-Nov. 30.....	53	37	
	Dec. 4-Dec. 29.....		15	
	Jan. 19-Jan. 27.....	3		
	Feb. 23-Mar. 12.....	3		
	Mar. 13-Mar. 23.....	4		
	Mar. 24-Mar. 31.....	3		
	Apr. 1-Apr. 20.....	64	54	
Formosa.....	Apr. 20-May 20.....	268		
	May 31-June 27.....	144		
	June 29-July 25.....	25		
Kanagawa Ken.....	July 7-Aug. 3.....	3	2	
Nagasaki Ken.....	June 9-June 27.....	3	3	
Taihoku.....	Apr. 20-Apr. 27.....	3		
<b>Russia :</b>				
St. Petersburg.....	Apr. 10-Apr. 17.....		1	
Theodosia.....	Mar. 31.....			One case of plague on Br. ss. Baldwin.

a Official returns show 9,118 cases and 7,602 deaths to March 12.

CUBA.

*Smallpox and yellow fever in Cuban seaports.*

November 23 : The United States consul at Cardenas reports that during the week ended November 20 there was in that city 1 death from yellow fever and no deaths from smallpox.

November 22 : The United States consul at Cienfuegos reports that

during the week ended November 21 there was in that city 1 death from yellow fever and 1 death from smallpox.

November 27: The United States sanitary inspector at Habana reports that during the week ended November 25 there were in that city 9 deaths from yellow fever and 5 deaths from smallpox.

November 19: The United States consul at Matanzas reports that during the week ended November 17 there were in that city no deaths from yellow fever.

November 27: The United States sanitary inspector at Habana reports that during the week ended November 25 there were in the city of Regla 5 deaths from yellow fever.

November 22: The United States consul at Sagua la Grande reports that during the week ended November 20 there were in that city 37 cases and 6 deaths from smallpox.

November 20: The United States sanitary inspector at Santiago reports that during the two weeks ended November 20 there were in that city 5 deaths from yellow fever.

*Sanitary report from Habana.*

HABANA, CUBA, *November 27, 1897.*

SIR: The following report of the transactions of this office and of sanitary matters for the week ended Thursday, November 25, 1897, is respectfully submitted:

There will be many women and children leaving Habana for Key West and Tampa within the next few days, as the Florida State board of health will remove their restrictions governing the acclimation of persons on and after December 1, and being informed of this matter, this office has been besieged with persons to be vaccinated.

At the same time the harbor work has increased in proportion and the situation there has to be carefully watched as vessels remain two or three days after being given their bill of health by this office. In such cases an inspection is made of the vessel and crew each day and the inspection noted on the bill of health for the guidance of the quarantine officer at port of arrival in the United States.

Vessels in the cattle trade, and there are now seven regularly engaged in that business between Habana and ports on the west coast of Florida, should be, and are, carefully looked after even during the winter months.

The men composing the crews of these vessels nearly all present certificates of immunity to yellow fever, yet many of them own up that they have never had the disease and have lived in Florida, generally Key West, all their lives. I have a copy of one of these acclimation certificates, which, in my opinion, are unreliable. Yellow fever is decreasing in number of deaths, both in Habana proper and the town of Regla, across the bay. All of the deaths from that disease in the mortality table attached to this report occurred in the military hospitals.

The deaths from malarial fevers still hold up to the number which have occurred in previous weeks, and typhoid fever is still prevalent, most of the deaths from the latter disease occurring in the military hospitals.

Intestinal diseases are still ravaging the poor people, particularly the country people, although attempts are being made by private individuals to obtain for them good sustaining food and medical supplies.

Just what is and has been the condition of these people is exemplified by the fact that in the place called Los Fosos, mentioned in one of my previous reports, 1,700 men, women, and children have been placed there, and of that number, 1,190 have died. These figures are approximately correct, and the said deaths were recorded as resulting from enteritis or dysentery, and occasionally "inanicion" i.e. starvation. The condition of these people has been improved during the last few days, owing, as I have stated, to the efforts of private individuals. Smallpox is again increasing, there having been 5 deaths from that disease during the week. One death has occurred from leprosy, and 1 from beriberi.

I would invite your attention to the reported epidemic of typhus fever at Matanzas. It is said that the disease exists to a considerable extent and is increasing rapidly, with an enormous death rate. I can not at this time verify the statement as to the true nature of the disease, but without doubt a malignant type of disease exists in that city, and I believe needs investigation. The city of Matanzas lies on a low plateau of ground, and is situated between two rivers. The waters of these streams being brackish, and with the lack of sanitary surroundings existing everywhere on the island, that city is probably infected with typhus fever. I would report positively the existence of an increasing epidemic of smallpox at Sagua La Grande, a town of about 12,000, in the province of Santa Clara.

On November 22, there were 35 cases in the "Lazaretto" and other cases scattered over the city, and no organized attempts have been made to stop the progress of the disease by vaccination, isolation of cases, and disinfection of premises, and this neglect has been so palpable that the paper of the town, El Anunciador, has published the condition of affairs.

Sagua La Grande is a port from which vessels go to the United States.

Smallpox is prevailing in epidemic form also in several towns in the province of Pinar del Rio. The death rate is very high, the disease often occurring in its hemorrhagic form.

Pinar del Rio is the province west of Habana, and the towns referred to are connected with this by a railroad.

Very respectfully,

W. F. BRUNNER,

*Sanitary Inspector, U. S. M. H. S.*

The SUPERVISING SURGEON-GENERAL,  
*U. S. Marine Hospital Service.*

*Mortality of the city of Habana and the town of Regla for the week ended Thursday, November 25, 1897.*

	Habana.	Regla.	Total.
Yellow fever.....	9	5	14
Typhoid fever.....	28	2	30
Pernicious fever.....	10		10
Malarial fever.....	24	8	32
Smallpox.....	5		5
Beriberi.....	1		1
Caquexia paludica.....	16	3	19
Enteritis.....	72	17	89
Dysentery.....	51	30	81
Diarrhea.....	18	7	25
Leprosy.....	1		1
Pneumonia.....	10	1	11
Tuberculosis.....	52	6	58
Starvation.....	4	1	5
Total deaths.....	447	89	534
Annual ratio per 1,000.....			138.80

*Sanitary reports from Santiago.*SANTIAGO DE CUBA, *November 13, 1897.*

SIR: I have the honor to inform you that there were 61 deaths reported for the week ended November 13. Of these, 3 were from yellow fever, 4 from tuberculosis, 12 from enteritis, 7 from pernicious, and 2 from remittent fever, 1 from dysentery, and 26 from dropsy; the rest from common diseases of noncontagious character. Yellow fever has decreased some, but as large contingents of raw recruits are arriving from Spain, I have no doubt that the endemic fever will take new force very soon. I must invite your attention to the large number of drop-sies. These are cases of anæmia brought on by hunger and want.

Yours, respectfully,

H. S. CAMINERO, M. D.,  
*Sanitary Inspector, U. S. M. H. S.*

The SUPERVISING SURGEON-GENERAL,  
*U. S. Marine-Hospital Service.*

*November 20, 1897.*

SIR: I have the honor of submitting the following report on the sanitary condition of Santiago de Cuba for the week ended November 20:

Sixty-six deaths have been reported for this period, of which 2 were from yellow fever, 3 from dysentery, 7 from tuberculosis, 9 from enteritis, 3 from pernicious, and 4 from remittent fevers, 23 from anæmia with dropsy, and the rest from common diseases of noncontagious character. Hunger seems to be the principal factor in the production of deadly maladies at present. A man was found dead from starvation right opposite the consulate this morning.

Respectfully,

Dr. H. S. CAMINERO,  
*Sanitary Inspector, U. S. M. H. S.*

The SUPERVISING SURGEON-GENERAL,  
*U. S. Marine-Hospital Service.*

## HAITI.

*Yellow fever in Port au Prince.*

DEPARTMENT OF STATE,  
*Washington, November 29, 1897.*

SIR: I have, by direction of the Secretary of State, the honor to inclose copy of a dispatch from our minister to Haiti, reporting the presence of yellow fever at Port au Prince.

Respectfully, yours,

WILLIAM R. DAY,  
*Assistant Secretary.*

Hon. SECRETARY OF THE TREASURY.

[Inclosure—No. 77.]

LEGATION OF THE UNITED STATES,  
PORT AU PRINCE, HAITI, *November 10, 1897.*

SIR: I have been informed that yellow fever has broken out here. Two cases have occurred, one of which has resulted fatally. The government is taking energetic measures to isolate and stamp it out. I think there need be no cause of alarm. I view it simply as one of those sporadic cases that occur yearly; the germ is no doubt here only awaiting subjects to develop itself upon. Should it become epidemic, will inform

the Department. Am not alarmed myself. Will remain here to watch results. It would be well not to have any of our naval vessels in these waters until all apparent danger is over.

I have the honor to be, sir, your obedient servant,

W. F. POWELL.

HON. SECRETARY OF STATE, *Washington, D. C.*

#### STATISTICAL REPORTS.

**BAHAMAS—*Dunmore Town.***—Two weeks ended November 19, 1897. Estimated population, 1,472. One death. No deaths from contagious disease.

***Governors Harbor.***—Two weeks ended November 20, 1897. Estimated population, 1,500. No deaths.

***Green Turtle Cay—Abaco.***—Two weeks ended November 18, 1897. Estimated population, 3,900. No deaths.

**BERMUDA.**—Two weeks ended November 20, 1897. Estimated population, 15,013. Total deaths, 4. One death from enteric fever.

**FRANCE—*Roubaix.***—Month of October, 1897. Estimated population, 130,500. Total deaths, 153, including enteric fever, 4; measles, 1, and whooping cough, 3.

**GREAT BRITAIN—*England and Wales.***—The deaths registered in 33 great towns in England and Wales during the week ended November 13 correspond to an annual rate of 19.0 a thousand of the aggregate population, which is estimated at 10,992,524. The highest rate was recorded in Bolton, viz, 27.1, and the lowest in Cardiff, viz, 10.7.

***London.***—One thousand six hundred and sixty deaths were registered during the week, including measles, 78; scarlet fever, 20; diphtheria, 46; whooping cough, 25; enteric fever, 20, and diarrhea and dysentery, 21. The deaths from all causes correspond to an annual rate of 19.4 a thousand. In greater London 2,088 deaths were registered, corresponding to an annual rate of 17.3 a thousand of the population. In the "outer ring" the deaths included 26 from diphtheria, 16 from measles, 1 from scarlet fever, and 6 from whooping cough.

***Ireland.***—The average annual death rate represented by the deaths registered during the week ended November 13 in the 23 principal town districts of Ireland was 19.9 a thousand of the population. The lowest rate was recorded in Queenstown, viz, 0.0, and the highest in Londonderry, viz, 28.3 a thousand. In Dublin and suburbs 133 deaths were registered, including enteric fever, 9; scarlet fever, 8; diphtheria, 1, and whooping cough, 2.

***Scotland.***—The deaths registered in 8 principal towns during the week ended November 13 correspond to an annual rate of 20.1 a thousand of the population, which is estimated at 1,549,907. The lowest mortality was recorded in Paisley, viz, 16.1, and the highest in Greenock, viz, 23.7 a thousand. The aggregate number of deaths registered from all causes was 599, including smallpox, 1; measles, 7; scarlet fever, 11; diphtheria, 6, and whooping cough, 12.



JAMAICA.—Two weeks ended November 13, 1897. Estimated population, 694,865. Total number of deaths not reported. The deaths included 7 from yellow fever.

ST. HELENA.—Three weeks ended October 23, 1897. Estimated population, 3,600. One death. No death from contagious disease.

SWITZERLAND—*Lucerne*.—Month of October, 1897. Estimated population, 23,500. Total deaths, 24. No deaths reported from contagious diseases.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—									
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.	
Acapulco.....	Nov. 6....	5,000	9										
Aix la Chapelle.....	do.....	126,575	48										
Amherstburg.....	Nov. 20....	2,300	2										
Amsterdam.....	Nov. 13....	500,091	146					1			3		
Belfast.....	do.....	281,431	120					5			1		3
Belize.....	Nov. 19....	13,000	5										
Belleville.....	Nov. 8.....	10,399	3										
Do.....	Nov. 23....	10,399	4										
Birmingham.....	Nov. 13....	508,772	208							2	4	8	3
Bluefields.....	do.....	3,000	2										
Bradford.....	do.....	221,610	81					1				1	2
Bremen.....	Nov. 6.....	143,000	40					1					
Bristol.....	Nov. 13....	232,242	71					12			1	2	
Brussels.....	Nov. 6.....	482,158	163					1	1	1			
Budapest.....	Nov. 12....	640,000	64				1				4	1	1
Cardenas.....	Nov. 20....	23,517	64		1		3	18					
Catania.....	Nov. 9.....	120,000	68				3				1		
Champerico.....	Sept. 25....	902	5				3						
Chemnitz.....	Nov. 6.....	165,000	53								2		
Christiania.....	Nov. 13....	192,141	40										2
Cienfuegos.....	Nov. 21....	24,030	65		1	1							
Cologne.....	Nov. 7.....	336,473	119					2			5		
Copenhagen.....	Nov. 6.....	340,500	90					2	1	1			
Crefeld.....	Nov. 13....	108,316	37					2	2	4			
Dresden.....	Oct. 23....	374,600	104					1	4	1		1	1
Do.....	Oct. 30....	374,600	118						1	2	1		2
Dublin.....	Nov. 13....	350,000	133					3	3				
Dusseldorf.....	Nov. 6.....	189,780	53										
Flushing.....	Nov. 13....	17,193	8										
Frankfort on the Main.....	do.....	243,000	71									1	2
Ghent.....	Oct. 23....	159,218	53										
Do.....	Oct. 30....	159,218	58					1					
Do.....	Nov. 6.....	159,218	64					1					
Do.....	Nov. 13....	159,218	55					2					
Gibraltar.....	Nov. 7.....	25,900	9			1							
Girgenti.....	Nov. 6.....	24,428	7										
Glasgow.....	do.....	714,919	277					3	5		4	6	12
Do.....	Nov. 13....	714,919	294		1			2	6	1	2	1	8
Gothenburg.....	Nov. 6.....	117,350	25					1	1		1		
Halifax.....	Nov. 20....	38,700	13										
Hamburg.....	Nov. 13....	641,780	178					1			1		
Honolulu.....	Oct. 23....	30,000	16					1					
Do.....	Oct. 30....	30,000	16										
Do.....	Nov. 6.....	30,000	11										
Iquique.....	Sept. 18....	33,106	11					1					1
Do.....	Sept. 25....	33,106	30										
Do.....	Oct. 2.....	33,106	23										
Do.....	Oct. 9.....	33,106	35					1					
Do.....	Oct. 16....	33,106	26										1
Do.....	Nov. 26....	18,500	2										
Kingston, Canada.....	Nov. 26....	18,500	2							2	1	9	5
Leeds.....	Nov. 13....	402,449	152										
Leghorn.....	do.....	103,609	29					2					
Leith.....	do.....	75,186	26								1	1	
do.....	do.....	20,000	10				1	1					
Licata.....	Nov. 6.....	20,000	26					1					
Liege.....	Nov. 13....	166,110	51					1	2				

MORTALITY TABLE, FOREIGN CITIES—Continued.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—									
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.	
Liverpool	do	644,129	286				1	7	4	2			7
Livingston	do	2,000	0										
London, Canada	do	36,000	12										
Do	Nov. 20	36,000	6								1		
London, England	Nov. 13	5,633,806	2,068					25	21	72	94		31
Madrid	Nov. 9	482,816	245					4	2	3	1		
Manchester	Nov. 13	536,426	186			2				2	10		2
Mannheim	do	101,500	33					1	6		1		
Matamoras	Nov. 19	12,000	5								1		
Matanzas	Nov. 17	50,000	319					3			4		
Mayence	Oct. 30	77,000	21										
Do	Nov. 6	77,000	31										
Melbourne	Sept. 25	450,000							1	2			
Do	Oct. 2	450,000							1	2			
Do	Oct. 9	450,000							1	1			
Do	Oct. 16	450,000								1			
Messina	Nov. 13	107,000	27										
Munich	Oct. 30	418,000	179						2	2	2		1
Do	Nov. 6	418,000	202							6	4		1
New Castle on Tyne	do	212,223	80										
Do	Nov. 13	212,223	69								1		
Nuremberg	Oct. 30	180,141	52						1				
Odessa	Nov. 6	404,000	178					8		2	2		
Palermo	do	273,000	105										
Paris	Oct. 9	2,511,955	762					7		3	3		1
Do	Oct. 16	2,511,955	847					7		3	3		2
Do	Nov. 6	2,511,955	800					9		2	2		
Do	Nov. 13	2,511,955	865					3		3	4		1
Plymouth	do	97,658	21							1	1		
Prague	Nov. 6	195,919	112					1	5	2			
Quebec	Nov. 20	70,000								1			
Rheims	Nov. 13	108,943	32										
Rotterdam	do	295,308							2				
St. Georges	do	2,150	0										
Do	Nov. 20	2,150	1										
St. Johns	Nov. 6	16,679	14										
Do	Nov. 13	16,679	9										
St. Petersburg	Nov. 6	1,267,023	476			1		16	22	46	1		1
St. Stephens	Nov. 20	3,000	2										
St. Thomas	Oct. 29	12,019	1										
Do	Nov. 5	12,019	4										
San Juan del Norte	Nov. 6	1,156	0										
Schiedam	Nov. 13	26,627	9										
Sonneberg	Oct. 30	12,400	6										
Do	Nov. 6	12,400	9										
South Shields	do	95,798	30					1					1
Do	Nov. 13	95,798	27										
Stettin	Nov. 6	150,000	51					1			3		
Stockholm	do	275,000	95					1	3	5			
Stuttgart	Nov. 11	162,934	47										
Trapani	Nov. 6	45,095	15										
Trieste	do	158,314	68					1	1				
Tuxpan	do	10,280	7										
Venice	Oct. 30	166,107	52					1			2		
Vera Cruz	Nov. 18	30,000	47		1								
Warsaw	Nov. 6	601,408	237			10	1		12	2	12		1
Zurich	do	159,000	45							1	2		

By authority of the Secretary of the Treasury :

WALTER WYMAN,  
Supervising Surgeon-General U. S. Marine-Hospital Service.