

# Public Health Reports

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

VOL. XIII.

WASHINGTON, D. C., JANUARY 7, 1898.

No. 1.

## UNITED STATES.

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

### *Arrival of yellow fever infected vessel at Gulf Quarantine.*

GULF QUARANTINE,  
*Biloxi, Miss., December 21, 1897.*

Norwegian bark *Benjamin Bangs*, from Kingston via Mobile, arrived with 7 cases yellow fever here, and 4 others in Kingston and on voyage.

SMITH,  
*Passed Assistant Surgeon, U. S. M. H. S.*

### *Concerning cases of reported typhus fever in San Francisco.*

SAN FRANCISCO, CAL., *December 25, 1897.*

SIR: Referring to letters of this office of October 30, and November 12, 1897, reporting 2 cases of typhus in this city, I have the honor to inclose a communication from Passed Assistant Surgeon M. J. Rosenau, Marine-Hospital Service, under date of December 20, 1897, together with a newspaper clipping from which it will be seen that 1 (the first) case was certainly, the second probably, *not* typhus. It is proper to state that the information upon which the letters above cited were based was obtained from the gentleman whose subsequent investigation has changed the diagnosis previously made.

Very respectfully, your obedient servant,

JAMES M. GASSAWAY,  
*Surgeon, U. S. M. H. S.*

[Inclosure.]

NATIONAL QUARANTINE STATION,  
*Angel Island, Cal., December 20, 1897.*

SIR: I have the honor to inform you that a further study of the case of Miller, recently reported as typhus fever, proves to be typhoid fever. Characteristic bacilli

are found in the spleen ; the blood reacts to Widal's test, and ulcers were found in the small intestines.

The case of Hawkins, Miller's nurse, was undoubtedly the same disease.

Respectfully, yours,

M. J. ROSENAU,

*Passed Assistant Surgeon, U. S. M. H. S.*

To Surgeon JAMES M. GASSAWAY, U. S. M. H. S.,  
San Francisco, Cal.

*Smallpox in the United States as reported to the Supervising Surgeon-General United States Marine-Hospital Service, January 1 to January 8, 1898.*

Places.	Date.	Cases.	Deaths.	Remarks.
New York: Deposit.....	Nov. 1-Nov. 30 ...	1 .....		

*Report of immigration at Boston for the week ended January 1, 1898.*

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Boston, January 1, 1898.*

*Number of alien immigrants who arrived at this port during the week ended January 1, 1898;  
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Dec. 26	Steamship Boston.....	Yarmouth, Nova Scotia.....	12
Dec. 27	Steamship Bostonian .....	London, England.....	10
Do....	Steamship Lycia.....	Barry, England.....	4
Do....	Steamship Norseman .....	Liverpool, England.....	6
Dec. 28	Steamship Catalonia .....	do.....	30
Dec. 29	Steamship Prince Edward.....	Yarmouth, Nova Scotia .....	69
Do....	Steamship Beverly.....	Port Antonio, Jamaica.....	1
Dec. 30	Steamship Cambroman .....	Liverpool, England.....	9
Do....	Steamship Lancastrian.....	do.....	6
Do....	Steamship Boston.....	Yarmouth, Nova Scotia.....	60
Do....	Steamship Halifax.....	Halifax, Nova Scotia.....	14
Do....	Steamship Baltimore.....	London, England.....	1
Dec. 31	Steamship Georgian .....	do.....	2
Do....	Steamship Ontario.....	Hull, England.....	2
Do....	Schooner Abana .....	Allerton, Prince Edward Island .....	1
Jan. 1	Steamship Prince Edward.....	Yarmouth, Nova Scotia.....	96
	Total.....		323

GEO. B. BILLINGS,  
*Commissioner.*

*Report of immigration at New York for the week ended January 1, 1898.*

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of New York, January 3, 1898.*

*Number of alien immigrants who arrived at this port during the week ended January 1, 1898;  
also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Dec. 26	Steamship St. Paul.....	Southampton.....	56
Do....	Steamship Stuttgart.....	Bremen.....	376
Do....	Steamship Buenos Ayrean.....	Glasgow.....	16
Dec. 27	Steamship Etruria.....	Liverpool and Queenstown.....	58
Do....	Steamship La Champagne.....	Havre.....	123
Dec. 28	Steamship Obdam.....	Rotterdam.....	129
Dec. 29	Steamship Westernland.....	Antwerp.....	58
Do....	Steamship Sicilia.....	Stettin and Havre.....	135
Dec. 30	Steamship Neustria.....	Marseilles and Naples.....	218
Do....	Steamship Werra.....	Genoa and Naples.....	293
Dec. 31	Steamship Anchoria.....	Glasgow.....	78
Do....	Steamship Germanic.....	Liverpool and Queenstown.....	56
	Total.....		1,596

THOMAS FITCHIE,  
*Commissioner.*

*Report of immigration at Philadelphia for the week ended January 1, 1898.*

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Philadelphia, January 3, 1898.*

*Number of alien immigrants who arrived at this port during the two weeks ended January 1,  
1898; also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Dec. 28	Steamship Pennland.....	Liverpool and Queenstown.....	33
Dec. 29	Steamship Westminster.....	London.....	1
Dec. 31	Steamship La Flandre.....	Antwerp.....	1
Do....	Steamship Pennsylvania.....	do.....	67
	Total.....		102

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

## QUARANTINE REPORTS.

## National quarantine and inspection 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.
Alexandria, Va.....	Jan. 1							No transactions.....	4
Brunswick, Ga.....	do.								2
Cape Fear, N. C.....	Jan. 1	Nor. bk. Harding (a) ..	Dec. 21	Fernambuco.....	Brunswick.....	Ballast discharged.....	Dec. 23		1
Delaware Breakwater	do.								
Quarantine, Del.....	Dec. 22							No transactions.....	
Eureka, Cal.....	Dec. 23							do.....	
Gray's Harbor, Wash.....	Dec. 23							8 cases yellow fever in quarantine; 4 others in Kingston and on voyage thence.....	3
Gulf Quarantine, Ship Island, Miss.....	Dec. 23	Nor. bk. Benj. Bangs.....	Dec. 19	Kingston.....	Mobile.....	Disinfected and held for discharge of ballast and second disinfection.....		No report.....	
Newbern, N. C.....	Dec. 23								3
Port Townsend, Wash.....	Jan. 1								14
Reedy Island Quarantine, Del.....	Jan. 1								
San Diego, Cal.....	Dec. 25							1 spoken and passed.....	6
San Francisco Quarantine, Cal.....	do.							124 Chinese and 12 Japanese steerage passengers from the ss. China disinfectd.....	11
South Atlantic Quarantine, Blackbeard Island, Ga.....	Dec. 25								1
Tortugas Quarantine, Key West, Fla.....	do.							4 cases of fever, probably yellow, at sea; 2 cases recovered and 2 died. Vessel remanded from Apalachicola.....	
Washington, N. C.....	Jan. 1	Nor. bk. Ragna.....	Dec. 24	Para.....	Apalachicola.....	Held for disinfection.....		No transactions.....	

a 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.
Andote, Fla.....	.....	.....	.....	.....	.....	.....	.....	No report.....	.....
Apalachicola, Fla.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Bangor, Me.....	Jan. 1	.....	.....	.....	.....	.....	.....	.....do.....	15
Boston, Mass.....	Jan. 2	.....	.....	.....	.....	.....	.....	No report.....	1
Carrabelle, Fla.....	.....	.....	.....	.....	.....	.....	.....	No report.....	1
Cedar Key, Fla.....	Jan. 1	.....	.....	.....	.....	.....	.....	No report.....	4
Charleston, S. C.....	.....	.....	.....	.....	.....	.....	.....	No report.....	.....
Charlotte Harbor, Fla.....	Jan. 1	.....	.....	.....	.....	.....	.....	No report.....	.....
Elizabeth River, Va.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Galveston, Tex.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Gardiner, Oreg.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Georgetown, S. C.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Gloucester, Mass.....	Jan. 1	.....	.....	.....	.....	.....	.....	No report.....	4
Key West, Monroe Co., Fla.....	.....	.....	.....	.....	.....	.....	.....	No report.....	.....
Mayport, Fla.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Mobile Bay, Ala.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
New Bedford, Mass.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
New Orleans, La.....	Jan. 1	.....	.....	.....	.....	.....	.....	No report.....	5
Newport News, Va.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....
Newport, R. I.....	.....	.....	.....	.....	.....	.....	.....	No report.....	.....
New York, N. Y.....	Dec. 27	.....	.....	.....	.....	.....	.....	.....do.....	.....
Port Royal, S. C.....	Jan. 1	.....	.....	.....	.....	.....	.....	No transactions.....	1
Providence, R. I.....	.....	.....	.....	.....	.....	.....	.....	No report.....	.....
St. Helena Entrance, Fla.....	Jan. 1	.....	.....	.....	.....	.....	.....	.....do.....	10
Savannah, Ga.....	.....	Ger. bk. Germania.....	Dec. 30	Rio.....	Savannah.....	Preparing to discharge ballast.	.....	.....do.....	.....
Tampa Bay, Fla.....	.....	.....	.....	.....	.....	.....	.....	.....do.....	.....

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

**MAINE—Portland.**—Four weeks ended December 25, 1897. Estimated population, 41,500. Total deaths, 70, including phthisis pulmonalis, 4; diphtheria, 7, and croup, 1.

**MASSACHUSETTS—Worcester.**—Month of November, 1897. Estimated population, 103,086. Total deaths, 131, including phthisis pulmonalis, 12; enteric fever, 2, and diphtheria, 9.

**MICHIGAN.**—Week ended December 18, 1897. Reports to the State board of health, Lansing, from 59 observers indicate that measles increased and inflammation of kidney and intermittent fever decreased in area of prevalence. Phthisis pulmonalis was reported present during the week at 178, diphtheria at 47, scarlet fever at 43, enteric fever at 42, measles at 26, and whooping cough at 11 places.

Week ended December 25, 1897. Reports from 54 observers indicate that inflammation of bowels and inflammation of kidneys increased and diarrhea decreased in area of prevalence. Phthisis pulmonalis was reported present at 175, enteric fever at 47, diphtheria at 38, scarlet fever at 38, measles at 28, and whooping cough at 11 places.

**NEW YORK.**—Month of November, 1897. Reports to the State board of health, Albany, N. Y., from 152 cities, towns, and villages, show a total of 8,325 deaths, including diphtheria and croup, 339; enteric fever, 151; measles, 63; scarlet fever, 62; phthisis pulmonalis, 977, and whooping cough, 27.

The Monthly Bulletin says:

“The number of deaths reported for the month is 8,325, which represents an unusual death rate of 15.30 per 1,000 estimated population. This is 400 more deaths than were reported in November, 1896, but is about the average of the last seven years for this month. Compared with the corresponding month of last year, the proportion of deaths in early life was smaller, and the relative zymotic mortality is smaller, and the same is true regarding the average of past years; less than one-fourth of the deaths occurred under the age of five years, and little more than ten per cent of the deaths were from zymotic causes. The only one of this latter class of diseases which shows a notable decrease is diphtheria, from which there were for the month 5 deaths per 100,000 population, against 6.5 in last November, and an average of 9 during the last ten years. Diarrheal diseases have continued to be excessive during the autumn months, the rural mortality from this cause being materially greater than it was a year ago. The mortality from acute respiratory diseases is that of the average for the month, 1,150 deaths, about 14 per cent of the total, and 17.5 deaths per 100,000 population.

“Compared with the preceding month, there were 800 fewer deaths and a saving in the annual death rate of 1.45 per 1,000 population; the number of deaths in early life and from the class of zymotic diseases was less, diarrheal diseases having decreased by 250, and diphtheria, which usually increases in November, has a smaller mortality, as also has typhoid fever, while scarlet fever and measles have increased in the maritime district only. The rural mortality from diphtheria is small compared with that of last November, only 36 deaths being

reported from nonspecified towns. November is uniformly the month of smallest mortality in the year; the average monthly mortality for the preceding ten months of the present year was 9,960 against 8,325 this month, a death rate of 15.30 against 18.30, and a daily mortality of 280, which is the average for November for ten years, against a daily average for the rest of the year of 340. The infant mortality is always the lowest in the year, while the zymotic is relatively higher, as a rule, than in the early spring months. A case of smallpox from a source unknown is reported from Deposit."

*Yonkers*.—Month of November, 1897. Estimated population, 40,000. Total deaths, 54, including phthisis pulmonalis, 7, and diphtheria, 4.

VIRGINIA—*Lynchburg*.—Month of December, 1897. Estimated population 30,000. Deaths, white, 11; colored, 23; total, 34, including phthisis pulmonalis, 7, and enteric fever, 2.

*Petersburg*.—Month of December, 1897. Estimated population, white, 12,000; colored, 13,000; total, 25,000. Deaths, white, 16; colored, 15; total, 31, including 8 from phthisis pulmonalis.

WISCONSIN—*Superior*.—Month of December, 1897.—Estimated population, 35,000. Total deaths, 20. No deaths from contagious diseases.





## 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 pul- monalis.	Yellow fever.	Smallpox.	Variceloid.	Cholera.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Springfield, Ill.....	Jan. 1....	44, 179	15	2	.....	.....	.....	.....	.....	1	.....	.....	.....
Taunton, Mass.....	.....do.....	25, 448	11	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waltham, Mass.....	.....do.....	18, 707	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington, D. C.....	Dec. 25....	230, 392	108	14	.....	.....	.....	.....	.....	3	1	2	.....
West Newton, Mass.....	Jan. 1....	24, 379	5	1	.....	.....	.....	.....	.....	.....	2	.....	.....
West Tampa, Fla.....	Dec. 31....	5, 532	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Winona, Minn.....	Dec. 25....	18, 208	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woburn, Mass.....	.....do.....	13, 499	10	1	.....	.....	.....	.....	.....	.....	.....	1	.....
Do.....	Jan. 1....	13, 499	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Worcester, Mass.....	Dec. 24....	84, 655	32	9	.....	.....	.....	.....	.....	1	.....	.....	.....
Yonkers, N. Y.....	Dec. 31....	32, 033	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Youngstown, Ohio.....	Jan. 1....	33, 220	8	.....	.....	.....	.....	.....	.....	1	.....	3	.....

## Table of temperature and rainfall, week ended December 27, 1897.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
<b>Atlantic Coast:</b>						
Eastport, Me.....	24		6	.90		.67
Portland, Me.....	26		6	.77		.52
Northfield, Vt.....	22		9	.70		.64
Boston, Mass.....	30		6	.74		.32
Vineyard Haven, Mass.....	35		3	.70	.43	
Nantucket, Mass.....	37		7	.96		.23
Woods Hole, Mass.....	35		6	.73	.06	
Block Island, R. I.....	36		8	.82	.23	
New Haven, Conn.....	32		7	.77		.27
Albany, N. Y.....	27		6	.61		.37
New York, N. Y.....	33		6	.77		.33
Harrisburg, Pa.....	32		5	.70		.45
Philadelphia, Pa.....	35		5	.63		.25
New Brunswick, N. J.....	33		6	.83		.45
Atlantic City, N. J.....	36		6	.91		.13
Baltimore, Md.....	37		5	.70		.14
Washington, D. C.....	35		5	.70	.22	
Lynchburg, Va.....	39		6	.74	.68	
Corpe Henry, Va.....	42		4	.91	.58	
Norfolk, Va.....	43		6	.84	.55	
Charlottesville, N. C.....	44		6	1.01		.43
Raleigh, N. C.....	45		9	.69	.49	
Kittyhawk, N. C.....	44		3	.98	1.52	
Hatteras, N. C.....	49		5	1.26	.56	
Wilmington, N. C.....	49		6	.72	.90	
Columbia, S. C.....	47		5	.70	.53	
Charleston, S. C.....	52		2	.77	1.09	
Augusta, Ga.....	48		4	.77	.89	
Savannah, Ga.....	53		4	.77	.80	
Jacksonville, Fla.....	57		1	.66	2.28	
Jupiter, Fla.....	67	4		.63		.56
Key West Fla.....	71	4		.35	.15	
<b>Gulf States:</b>						
Atlanta, Ga.....	44		6	1.03	.00	
Tampa, Fla.....	62	2		.56	.01	
Pensacola, Fla.....	54		3	.91		.05
Mobile, Ala.....	52		3	1.05	.18	
Montgomery, Ala.....	49		3	1.11		.58
Vicksburg, Miss.....	50		7	1.12	2.21	
New Orleans, La.....	54	0		.98	.14	
Shreveport, La.....	48		6	1.05		.04
Fort Smith, Ark.....	42		8	.70		.19
Little Rock, Ark.....	43		9	.98		.23
Palestine, Tex.....	52		11	.84	.36	
Galveston, Tex.....	55		8	.91		.40
San Antonio, Tex.....	54		9	.42	.13	
Corpus Christi, Tex.....	60		13	.29	.25	
<b>Ohio Valley and Tennessee:</b>						
Memphis, Tenn.....	42		7	.99	.80	
Nashville, Tenn.....	41		8	.89	.07	
Chattanooga, Tenn.....	44		7	1.03	.59	
Knoxville, Tenn.....	40		5	.92	1.07	
Louisville, Ky.....	38		8	.81		.51
Indianapolis, Ind.....	32		10	.70		.65
Cincinnati, Ohio.....	35		7	.71		.60
Columbus, Ohio.....	33		8	.65		.50
Parkersburg, W. Va.....	38		9	.70	.04	
Pittsburg, Pa.....	35		7	.68		.31
<b>Lake Region:</b>						
Oswego, N. Y.....	29		6	.77		.39
Rochester, N. Y.....	28		5	.70		.34
Buffalo, N. Y.....	29		7	.77		.63
Erie, Pa.....	33		8	.70		.28
Cleveland, Ohio.....	31		8	.56		.35
Sandusky, Ohio.....	32		10	.56		.40
Toledo, Ohio.....	29		8	.51		.42
Detroit, Mich.....	28		9	.56		.48
Lansing, Mich.....	27		10	.42		.36
Port Huron, Mich.....	28		9	.49		.35
Alpena, Mich.....	24		7	.65		.31
Sault Ste. Marie, Mich.....	22		10	.46	.13	
Marquette, Mich.....	23		7	.49		.05
Green Bay, Wis.....	23		12	.56		.44

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

Table of temperature and rainfall, week ended December 27, 1897—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
<b>Lake Region—Continued.</b>						
Grand Haven, Mich.....	28	.....	6	.56	.....	.10
Milwaukee, Wis.....	24	.....	11	.44	.....	.28
Chicago, Ill.....	28	.....	13	.49	.....	.48
Duluth, Wis.....	15	.....	7	.28	.....	.24
<b>Upper Mississippi Valley:</b>						
St. Paul, Minn.....	16	.....	4	.28	.....	.28
La Crosse, Wis.....	21	.....	12	.28	.....	.16
Dubuque, Iowa.....	25	.....	13	.41	.....	.31
Davenport, Iowa.....	26	.....	12	.35	.....	.30
Des Moines, Iowa.....	25	.....	10	.28	.....	.28
Keokuk, Iowa.....	28	.....	11	.42	.....	.42
Springfield, Ill.....	32	.....	10	.63	.....	.63
Cairo, Ill.....	38	.....	8	.74	.....	.59
St. Louis, Mo.....	32	.....	5	.59	.....	.59
<b>Missouri Valley:</b>						
Columbia, Mo.....	38	.....	13	.42	.....	.42
Springfield, Mo.....	38	.....	8	.63	.....	.61
Kansas City, Mo.....	28	0	.....	.28	.....	.28
Wichita, Kans.....	37	.....	2	.21	.....	.21
Concordia, Kans.....	32	.....	2	.11	.....	.11
Lincoln, Nebr.....	27	.....	5	.14	.....	.14
Omaha, Nebr.....	23	.....	5	.21	.....	.17
Sioux City, Iowa.....	25	.....	9	.23	.....	.23
Yankton, S. Dak.....	19	.....	2	.14	.....	.06
Valentine, Nebr.....	23	4	.....	.09	.....	.02
Huron, S. Dak.....	14	3	.....	.14	.....	.05
Pierre, S. Dak.....	20	2	.....	.14	.....	.02
Moorhead, Minn.....	7	.....	1	.14	.....	.10
Bismarck, N. Dak.....	9	6	.....	.14	.....	.01
Williston, N. Dak.....	8	11	.....	.16	.....	.08
<b>Rocky Mountain Region:</b>						
Havre, Mont.....	15	14	.....	.14	.....	.14
Helena, Mont.....	21	5	.....	.21	.....	.21
Miles City, Mont.....	17	12	.....	.07	.....	.05
Rapid City, S. Dak.....	25	8	.....	.07	.....	.06
Spokane, Wash.....	29	1	.....	.63	.....	.06
Walla Walla, Wash.....	35	.....	6	.53	.....	.39
Baker City, Oreg.....	27	.....	3	.42	.....	.07
Winnemucca, Nev.....	29	.....	7	.29	.....	.29
Salt Lake City, Utah.....	32	.....	14	.35	.....	.33
Lander, Wyo.....	21	.....	9	.11	.....	.11
Cheyenne, Wyo.....	25	1	.....	.07	.....	.07
North Platte, Nebr.....	23	7	.....	.14	.....	.14
Denver, Colo.....	29	.....	1	.14	.....	.14
Pueblo, Colo.....	33	.....	6	.14	.....	.14
Dodge City, Kans.....	29	4	.....	.14	.....	.14
Oklahoma, Okla.....	36	.....	1	.59	.....	.59
Amarillo, Tex.....	37	4	.....	.18	.....	.10
Abilene, Tex.....	47	.....	8	.32	.....	.18
Santa Fe, N. Mex.....	30	.....	7	.16	.....	.16
El Paso, Tex.....	46	.....	5	.10	.....	.02
Phoenix, Ariz.....	52	.....	9	.31	.....	.31
<b>Pacific Coast:</b>						
Fort Canby, Wash.....	42	1	.....	2.24	1.39	.....
Portland, Oreg.....	40	.....	1	1.83	.....	.39
Roseburg, Oreg.....	41	4	.....	1.60	.....	1.01
Eureka, Cal.....	48	.....	.....	1.96	.....	.....
Redbluff, Cal.....	46	.....	3	1.28	.....	1.23
Carson City, Nev.....	38	.....	6	.49	.....	.49
Sacramento, Cal.....	47	.....	5	1.01	.....	1.01
San Francisco, Cal.....	51	.....	4	1.24	.....	1.24
Fresno, Cal.....	45	.....	5	.35	.....	.35
Los Angeles, Cal.....	54	.....	2	.97	.....	.97
San Diego, Cal.....	55	.....	4	.47	.....	.47
Yuma, Ariz.....	56	.....	7	.14	.....	.14

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, plague, and smallpox as reported to the Supervising Surgeon-General United States Marine-Hospital Service, January 1 to January 8, 1898.*

## CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay .....	Nov. 24-Nov. 30...	.....	4	
Calcutta.....	Dec. 1-Dec. 7....	.....	4	
Madras.....	Nov. 14-Nov. 27...	.....	28	
	Nov. 20-Nov. 26...	.....	1	

## YELLOW FEVER.

Brazil:				
Para.....	Dec. 12-Dec. 18...	.....	15	
Rio de Janeiro.....	Nov. 21-Dec. 4...	1	.....	
Cuba:				
Cienfuegos.....	Dec. 20-Dec. 26...	.....	1	
Habana .....	Dec. 17-Dec. 30...	.....	6	
Matanzas.....	Dec. 15-Dec. 22...	.....	1	
Sagua la Grande.....	Dec. 18-Dec. 25...	.....	.....	Yellow fever prevailing, but impossible to obtain statistics.

## PLAGUE.

China:				
Hongkong.....	Nov. 7-Nov. 20...	2	2	
India:				
Bombay .....	Nov. 24-Nov. 30...	.....	70	
	Dec. 1-Dec. 7....	.....	83	

## SMALLPOX.

Brazil:				
Rio de Janeiro.....	Nov. 21-Dec. 4...	10	.....	
China:				
Hongkong .....	Nov. 7-Nov. 13...	2	1	
Cuba:				
Cardenas.....	Dec. 19-Dec. 25...	.....	4	
Cienfuegos.....	Dec. 20-Dec. 26...	.....	3	
Habana .....	Dec. 17-Dec. 30...	.....	6	
Sagua la Grande.....	Dec. 19-Dec. 25...	31	4	
Gibraltar.....	Dec. 6-Dec. 12...	1	.....	
Italy:				
Messina.....	Dec. 12-Dec. 18...	.....	2	
Netherlands:				
Rotterdam .....	Dec. 12-Dec. 18...	1	.....	
Russia:				
Moscow.....	Nov. 23-Dec. 4...	1	1	
Odessa.....	Dec. 5-Dec. 11...	6	2	
St. Petersburg.....	Dec. 4-Dec. 11...	11	4	
Scotland:				
Glasgow.....	Dec. 5-Dec. 18...	2	.....	

## BARBADOS.

*Removal of quarantine restrictions against Manoaas, Brazil.*

BARBADOS, December 27, 1897.

SIR: I have been directed by my board to state for your information that the quarantine here against Manoaas, Brazil, has been taken off, all recent bills of health from there being clean, and the United States consul there, who passed through here on the 9th instant, having reported the place to be free from any infectious disease.

Quarantine is in force here against Pernambuco, Para, Panama, Mayaguez, Puerto Rico; Cuba, Bahia, and Jamaica.

The public health of this island continues to be good.

I am, yours, etc.,

JAS. SANDERSON,  
Clerk Quarantine Board.

The SUPERVISING SURGEON-GENERAL.

*U. S. Marine-Hospital Service.*

## BRAZIL.

*Sanitary report from Rio.*

RIO DE JANEIRO, December 6, 1897.

SIR: I have the honor to transmit report for the week ended December 4, 1897:

There were 8 deaths from *accessio pernicioso*, an increase of 1; 1 from measles, 4 from beriberi, and 2 from enteric fever, none in the foregoing week; 43 from tuberculosis, a decrease of 2; and 250 from all causes, a decrease of 9. The favorable state of the health of the town continues.

Since last report the following-named ships have been inspected or received bills of health from this office: December 2, steamship *Hevelius*, Belgian, for New York; schooner *Helen M. Atwood*, American, for Brunswick, Ga.; barkentine *Good News*, American, for Baltimore; steamship *Imperial Prince*, British, for New York, from Santos. December 6, ship *Cumberland*, British, for New York.

Respectfully, yours,

R. CLEARY, M. D.,  
Sanitary Inspector, U. S. M. H. S.

The SUPERVISING SURGEON-GENERAL,

*U. S. Marine-Hospital Service.*

## CUBA.

*Smallpox and yellow fever in Cuban seaports.*

December 28: The United States consul at Cardenas reports that during the week ended December 25 there were in that city no deaths from yellow fever and 4 deaths from smallpox.

December 27: The United States consul at Cienfuegos reports that during the week ended December 26 there were in that city 1 death from yellow fever and 3 deaths from smallpox.

December 31: The United States sanitary inspector at Habana reports

that during the two weeks ended December 30 there were in that city 6 deaths from yellow fever and 6 deaths from smallpox.

December 24: The United States consul at Matanzas reports that during the week ended December 22 there was in that city 1 death from yellow fever and no death from smallpox.

December 27: The United States consul at Sagua la Grande reports that during the week ended December 25 there were in that city 31 cases and 4 deaths from smallpox and many cases of yellow fever, but impossible to obtain correct statistics of the same.

*Sanitary report from Habana.*

HABANA, December 25, 1897.

SIR: I have the honor to inform you that the mortality from yellow fever continues to diminish in this city, as might be expected at this season, there having been only 2 deaths from it, and these Spanish soldiers, during the past week, but the mortality from intestinal diseases, typhoid, malarial, and so-called pernicious fever continues high, as also death from starvation.

The mortality from all diseases during the week ended December 23 was 410, 2 of which were caused by yellow fever, 16 by enteric fever, 11 by malarial fever, 12 by so-called pernicious fever, 4 by smallpox, 77 by enteritis, 46 by dysentery, 47 by tuberculosis, 4 by pneumonia, 9 by starvation, 1 by diphtheria, and 1 by bilious fever. The weather continues pleasantly cool and dry.

Very respectfully,

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

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

HABANA, December 31, 1897.

SIR: I have the honor to forward you the following mortuary table for the week ended December 30, 1897:

During that or the seminal period concluding last night there were 402 deaths in all in this city, 4 of which were caused by yellow fever, 11 by enteric fever, 13 by malarial fever, 9 by pernicious fever, 2 by smallpox, 76 by enteritis, 56 by dysentery, 42 by tuberculosis, 2 by pneumonia, 4 by starvation, and 2 by beriberi.

It may be seen by the foregoing table that the only diseases which are particularly severe are enteritis and dysentery, although quite a number of deaths occur from typhoid, malarial, and pernicious fevers.

The weather now is cool, and dry northerly winds prevailing.

Very respectfully,

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

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

## TURKEY.

*Sanitary report from Constantinople.*

CONSTANTINOPLE, December 15, 1897.

SIR: I beg to forward to you herewith the report No. 181 of Dr. Zavitziano, the United States sanitary commissioner.

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

JAMES B. ANGELL.

HON. SECRETARY OF STATE.

[Inclosure—Report No. 181.]

CONSTANTINOPLE, December 15, 1897.

At the yesterday's sitting of the International Sanitary Commission the British sanitary representative communicated the number of deaths registered in the three principal towns of India. The mortality of the town of Bombay during the week from the 9th to the 16th of November was 673, 7 from cholera and 47 from bubonic plague. According to telegraphic news received from Bassorah, there have arrived there the following steamships: *Henry Belkow*, which started from Bombay on the 19th of November. In her bill of health it was stated that 47 deaths from bubonic plague had been registered in that town during the week ended that date. The bill of health of the steamship *Purulia*, which started from Bombay the 25th of the same month (November), stated 67 plague deaths for the week ended the latter date.

The newly appointed sanitary physician at Bassorah complains of many irregularities occurring in that lazaretto. He reports, for instance, that the German consul, Mr. Richard, has been on board the steamship *Kapurthala* coming from India while she was under quarantine, and afterwards he entered the town of Bassorah freely; the sanitary guardians not daring to keep him in the lazaretto and oblige him to undergo a ten days' quarantine like all contaminated persons. I have already mentioned in my last report about the most imperfect conditions of the lazaretto of Bassorah. For instance, the landlord of the house living in the same place where quarantine is performed. At the yesterday's sitting, only fifteen days later, the above-mentioned sanitary physician asks by wire if he is allowed to hire that part of the house where the landlord of the lazaretto lives, and so have the lazaretto only for the passengers who undergo quarantine.

Sanitary official news states that public health is satisfactory in Trebizonde (Black Sea), Tripoli, in Syria, and Preveza (Epirus). The same is announced from Mecca. About the value of the sanitary news as well as the value of the sanitary physician of the latter town, I have already written in my previous reports. (See my report, 178.)

In Constantinople, besides smallpox, which is increasing, the other infectious diseases are abating. During the week ended the 12th instant, 253 have been registered, from which 2 were from measles, 4 from typhoid fever, and 13 from smallpox.

SPIRIDION C. ZAVITZIANO,  
United States Sanitary Commissioner.

## URUGUAY.

*Dr. J. Sanarelli on the present value of his antiyellow fever serum.*

[Translated in this Bureau.]

UNIVERSITY OF MONTEVIDEO,  
INSTITUTE OF EXPERIMENTAL HYGIENE,  
November 27, 1897.

DEAR SIR: I have received your kind letter of the 18th of October last in which you inform me that you have already commenced studies in the bacillus icteroides, which I suppose was isolated at New Orleans.

I should be very much obliged if you would send me all the publications made on this subject by your Marine-Hospital laboratory or by other laboratories of the United States.

With regard to the anti-maryllic serum (it can not yet be called anti-toxin), I have nothing new to add to the detailed report which I sent you and which you must have already read in the annals of the Pasteur Institute, where it should have appeared about October 27 last.

I believe my serum to be now ready for human experimentation.

A few days from now I shall make a second bleeding of the only horse which I consider at the present time as well vaccinated (the serum of the first bleeding I have already sent to Brazil), and I shall hasten to send you a certain quantity of the serum, which I trust you will experiment with in the present epidemic at New Orleans. On this subject I should like to make a statement.

At the present time I can not offer my serum as a sovereign remedy for yellow fever. It would be veritable presumption to claim to cure yellow fever when it has already reached its most advanced stages.

At the present time I believe my serum to be efficacious when administered at the beginning of the disease. This is much in its favor.

If successive experiments shall demonstrate its utility in the most advanced periods also, so much the better.

I can tell you nothing with regard to the dose to be administered. This is still in the trial stage. Try one, two, three \* \* \* vials. Make the injections subcutaneously, and if this does not give immediate results inject the serum immediately into the veins (the superficial veins of the forearm lend themselves very well to this purpose).

When you have collected or published your respective observations, I beg you to send them to me here or wherever I may be, as I am not sure of remaining here for a length of time.

Accept, sir, the assurance of my highest consideration.

Yours, very truly,

Dr. J. SANARELLI.

The SUPERVISING SURGEON-GENERAL,

*U. S. Marine-Hospital Service.*

#### STATISTICAL REPORTS.

GREAT BRITAIN—*England and Wales*.—The deaths registered in 33 great towns in England and Wales during the week ended December 18 correspond to an annual rate of 20.6 a thousand of the aggregate population, which is estimated at 10,992,524. The highest rate was recorded in Blackburn, viz, 26.2, and the lowest in West Ham, viz, 14.1.

*London*.—One thousand seven hundred and ninety-five deaths were registered during the week, including measles, 134; scarlet fever, 19; diphtheria, 63; whooping cough, 45; enteric fever, 23, and diarrhea and dysentery, 10. The deaths from all causes correspond to an annual rate of 21.0 a thousand. In greater London 2,324 deaths were registered, corresponding to an annual rate of 19.3 a thousand of the population. In the "outer ring" the deaths included 16 from diphtheria, 40 from measles, 5 from scarlet fever, and 13 from whooping cough.

*Ireland*.—The average annual death rate represented by the deaths registered during the week ended December 18 in the 23 principal town districts of Ireland was 26.8 a thousand of the population. The lowest rate was recorded in Tralee, viz, 11.2, and the highest in Kilkenny, viz, 42.5 a thousand. In Dublin and suburbs 191 deaths were registered,



including enteric fever, 10 ; diphtheria, 2 ; scarlet fever, 4, and whooping cough, 2.

*Scotland.*—The deaths registered in 8 principal towns during the week ended December 18 correspond to an annual rate of 20.3 a thousand of the population, which is estimated at 1,549,907. The lowest mortality was recorded in Perth, viz, 13.6, and the highest in Greenock, viz, 31.3 a thousand. The aggregate number of deaths registered from all causes was 606, including measles, 11 ; scarlet fever, 10 ; diphtheria, 3, and whooping cough, 29.

*Dundee.*—Month of November, 1897. Estimated population, 163,090. Total deaths, 259, including phthisis pulmonalis, 26 ; scarlet fever, 9 ; diphtheria, 3 ; croup, 1, and whooping cough, 4.

*JAMAICA.*—Week ended December 11, 1897. Estimated population, 694,865. Total deaths not reported. The deaths included 1 from yellow fever.

*NORFOLK ISLAND.*—Month of October, 1897. Estimated population, 869. No deaths.

*UNITED STATES OF COLOMBIA—Barranquilla.*—Month of November, 1897. Estimated population, 40,000. Total deaths, 78. 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.
Amapala.....	Nov. 27.....	1,500	1					1				
Do.....	Dec. 4.....	1,500	1					1				
Do.....	Dec. 11.....	1,500	0									
Belfast.....	do.....	281,431	116					6	2	2	1	2
Belize.....	Dec. 24.....	13,000	8									
Belleville.....	Dec. 27.....	10,389	2									
Berlin.....	Dec. 4.....	1,708,499	490					1	9	20	7	
Birmingham.....	Dec. 18.....	506,772	226					4	1	4	14	6
Bombay.....	Nov. 30.....	900,000	a 704	4							3	
Bradford.....	Dec. 11.....	221,610	68					3		1	1	
Do.....	Dec. 18.....	221,610	90							1		1
Bristol.....	Dec. 11.....	232,247	81					1			6	
Do.....	Dec. 18.....	232,247	97						1		13	
Brussels.....	Dec. 11.....	531,011	167					1		1	2	1
Calcutta.....	Nov. 20.....	681,560	522	13								
Callao.....	Dec. 5.....	20,000	25									
Cardenas.....	Dec. 25.....	23,517	70			4	27					
Cardiff.....	Dec. 18.....	170,063	47					2				
Catania.....	Dec. 14.....	120,000	54									
Cienfuegos.....	Dec. 20.....	24,030	82		1	3	2					
Cognac.....	do.....	20,000	6									
Colombo.....	Nov. 20.....	130,000	98					2				
Do.....	Nov. 27.....	130,000	77									
Copenhagen.....	Dec. 11.....	340,500	112									4
Dresden.....	Nov. 20.....	375,600	107						1	1		
Dublin.....	Dec. 11.....	350,000	115					2	3			
Do.....	Dec. 18.....	350,000	191					4	2			
Dundee.....	Dec. 11.....	163,090	54						2			2
Do.....	Dec. 18.....	163,090	58				1		1			1
Flushing.....	do.....	17,193	4									
Frankfort on the Main.....	do.....	243,000	78					1	1	1	5	1
Funchal.....	Dec. 11.....	35,600	23									
Ghent.....	Dec. 18.....	159,218	54									
Gibraltar.....	Dec. 12.....	25,900	6									
Girgenti.....	Dec. 11.....	24,428	9									
Glasgow.....	do.....	714,919	288					3	7	2	8	14
Do.....	Dec. 18.....	714,919	289					2	6	1	8	16
Gothenburg.....	Dec. 11.....	117,350	42								6	
Guyaquil.....	Dec. 10.....	50,000	29									
Do.....	Dec. 17.....	50,000	41									
Halifax.....	Dec. 25.....	38,700	19									
Hongkong.....	Nov. 13.....	261,258	(b)			1						
Do.....	Nov. 20.....	261,258	(c)									
Honolulu.....	Dec. 11.....	30,000	19									
Kingston.....	Dec. 25.....	18,500	7									
Konigsberg.....	Dec. 11.....	171,700							1	1		
Do.....	Dec. 18.....	171,700						1	1	1		
Leeds.....	do.....	402,449	181					3	4	2	8	3
Leipsic.....	Dec. 4.....	413,506	146				1					
Licata.....	Dec. 11.....	20,000	11					2				
Liege.....	do.....	166,110						1			2	
Liverpool.....	do.....	644,129	324					6	7	1	4	8
London, Canada.....	Dec. 25.....	36,000	7									
London, England.....	Dec. 11.....	6,291,677	2,414					15	22	78	162	53
Madras.....	Nov. 26.....	452,518	315	1								
Madrid.....	Dec. 14.....	487,169	350					6	1	4	5	
Manchester.....	Dec. 11.....	536,426	201					3	8	1	3	3
Do.....	Dec. 18.....	536,426	198					6	4	1	2	3
Matamoros.....	Dec. 24.....	16,304	13									
Matanzas.....	Dec. 22.....	50,000	294		1			6				
Messina.....	Dec. 18.....	107,000	50			2		2	1	1		
Monte Cristy.....	Dec. 25.....	1,500	0									
Moscow.....	Dec. 4.....	1,000,000	412									
New Castle on Tyne.....	Dec. 11.....	212,223	60								1	4
Do.....	Dec. 18.....	212,223	76							1	1	1
Odessa.....	Dec. 11.....	383,000	138									
Osaka and Hioga.....	Nov. 27.....	182,730	104									
Do.....	Dec. 4.....	182,730	95									
Palermo.....	Dec. 11.....	273,000	112									
Plymouth.....	Dec. 18.....	97,658	35						1			
Port au Prince.....	Nov. 30.....	60,000	14									

a Seventy deaths from plague.

b Two cases of plague.

c Two deaths from plague.

## 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.
Port au Prince.....	Dec. 7.....	60,000	20	.....	.....	.....	.....	.....	.....	.....	.....
Do .....	Dec. 14.....	60,000	19	.....	.....	.....	.....	.....	.....	.....	.....
Puerto Cortez.....	Dec. 22.....	2,000	0	.....	.....	.....	.....	.....	.....	.....	.....
Quebec.....	Dec. 25.....	70,000	.....	.....	.....	.....	.....	.....	.....	2	.....
Rheims.....	Dec. 11.....	108,943	62	.....	.....	.....	.....	.....	.....	.....	.....
Rio de Janeiro.....	Nov. 27.....	679,000	259	.....	.....	.....	.....	2	.....	.....	.....
Do .....	Dec. 4.....	679,000	250	.....	.....	.....	.....	.....	.....	1	.....
Rome.....	Nov. 6.....	483,560	149	.....	.....	.....	.....	1	.....	.....	.....
Do .....	Nov. 13.....	483,560	118	.....	.....	.....	.....	1	.....	.....	.....
Rotterdam.....	Dec. 18.....	295,308	116	.....	.....	.....	.....	2	.....	2	.....
Sagua la Grande.....	do.....	17,536	114	.....	.....	3	.....	.....	.....	.....	.....
Do .....	Dec. 25.....	17,536	104	.....	.....	4	.....	.....	.....	.....	.....
St. Petersburg.....	Dec. 11.....	1,267,023	531	.....	.....	4	1	21	17	35	9
St. Stephens.....	Dec. 25.....	3,000	0	.....	.....	.....	.....	.....	.....	.....	.....
Sanchez.....	Dec. 11.....	1,000	0	.....	.....	.....	.....	.....	.....	.....	.....
Do .....	Dec. 18.....	1,000	0	.....	.....	.....	.....	.....	.....	.....	.....
Do .....	Dec. 25.....	1,000	0	.....	.....	.....	.....	.....	.....	.....	.....
San Juan del Norte.....	Dec. 11.....	1,156	0	.....	.....	.....	.....	.....	.....	.....	.....
Schiedam.....	Dec. 18.....	26,627	9	.....	.....	.....	.....	.....	.....	.....	.....
Sheffield.....	Dec. 11.....	355,970	129	.....	.....	.....	.....	1	3	1	10
Do .....	Dec. 18.....	355,970	154	.....	.....	.....	.....	2	1	1	9
Southampton.....	do.....	98,002	41	.....	.....	.....	.....	.....	2	.....	1
South Shields.....	Dec. 11.....	95,798	38	.....	.....	.....	.....	.....	.....	.....	.....
Do .....	Dec. 18.....	95,798	26	.....	.....	.....	.....	.....	1	.....	.....
Stettin.....	Dec. 11.....	150,000	59	.....	.....	.....	.....	.....	1	1	.....
Stockholm.....	do.....	275,000	80	.....	.....	.....	.....	.....	1	4	1
Sunderland.....	do.....	142,107	45	.....	.....	.....	.....	.....	.....	1	.....
Do .....	Dec. 18.....	142,107	69	.....	.....	.....	.....	.....	1	.....	.....
Tampico.....	Dec. 6.....	12,000	27	.....	.....	.....	.....	.....	.....	.....	.....
Do .....	Dec. 13.....	12,000	29	.....	.....	.....	.....	.....	.....	.....	.....
Tegucigalpa.....	Dec. 11.....	12,000	9	.....	.....	.....	.....	.....	.....	.....	.....
Trapani.....	do.....	45,095	16	.....	.....	.....	.....	.....	.....	.....	.....
Tuxpan.....	do.....	10,280	10	.....	.....	.....	.....	.....	.....	.....	.....
Venice.....	do.....	166,069	68	.....	.....	.....	.....	.....	.....	.....	.....
Vera Cruz.....	Dec. 23.....	30,000	36	.....	.....	.....	.....	3	.....	.....	4

By authority of the Secretary of the Treasury :

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