

# Public Health Reports

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

VOL. XII.

WASHINGTON, D. C., AUGUST 20, 1897.

No. 34.

## UNITED STATES.

*Addition to quarantine regulations to be observed at ports and on the frontiers of the United States—Disinfection by formaldehyd gas.*

TREASURY DEPARTMENT,  
OFFICE OF THE SECRETARY,  
Washington, D. C., August 5, 1897.

*To National, State, and local quarantine authorities,  
collectors of customs, and others concerned:*

Addition is hereby made to the quarantine regulations of the Treasury Department, issued April 26, 1894, by inserting under Article V, "Quarantine regulations to be observed at ports and on the frontiers of the United States," paragraphs 8 and 9, as follows:

Paragraph 8. *Disinfection of steerage, forecabin, and cabin of vessels by formaldehyd gas.*—After the removal of the bedding, carpets, and furnishings, all apertures being tightly closed, the steerage, forecabin, and cabin of a vessel may be disinfected by formaldehyd gas in a percentage of not less than 2 per cent per volume strength, the time of exposure to be not less than twelve hours. The gas may be generated by one of the following methods:

(a) From methyl (wood) alcohol by means of special lamps, using not less than 600 grams (750 cubic centimeters,  $1\frac{1}{2}$  pints) of methyl alcohol for each 25.5 cubic meters (1,000 cubic feet) of space, the time of exposure to be not less than twelve hours.

Lamps used for generating formaldehyd gas from methyl alcohol should change not less than 1 liter (1.01 quarts) of the alcohol within an hour.

(b) From an aqueous solution, containing 40 per cent of the gas, known under the names of formalin, formol or formalose. The gas is best evolved from these solutions by the addition of from 10 to 30 per cent of a neutral salt, preferably calcium chloride or sodium nitrate, and heating the mixture in a special boiler. One liter of a 40 per cent solution of formaldehyd gas will evolve about 1,425 liters (50.1 cubic feet)

of the gas at 20° C. (68° F.), and will be sufficient for 71 cubic meters (2,505.5 cubic feet) of space.

(c) From the substance known as trioxymethylene by means of a special lamp, not less than 2 grams (30 grains) to be used for each cubic meter (35.29 cubic feet) of space.

After the disinfection of apartments (steerage, cabin, and forecabin) by formaldehyd gas, the latter should be neutralized by ammonia gas, evolved from water of ammonia by heat, or by evaporation from water of ammonia sprinkled upon the floor.

NOTE.—The quantity of water of ammonia required for neutralization after each of the above-named methods is as follows: After method (a), 1 liter (1.01 quarts) of water of ammonia for each 1,000 cubic centimeters (1.01 quarts) of wood alcohol used; after method (b), 1½ liters (1.26 quarts) of water of ammonia for each liter (1.01 quarts) of formalin; after method (c), 1 liter of water of ammonia for each 150 grams (5 ounces) of trioxymethylene.

Paragraph 9. *Disinfection of clothing, bedding, upholstered furniture, articles of leather, etc., by formaldehyd gas.*—These may be disinfected by formaldehyd gas in the ordinary steam disinfecting chamber, the latter to be provided with a vacuum apparatus and special apparatus for generating and applying the gas. The gas should be applied in a dry state in not less than 20 per cent per volume strength, the time of exposure to be not less than one hour. Clothing, bedding, etc., thus disinfected, should be exposed in situ to an equal amount of ammonia gas generated by the special apparatus attached to the chamber, using 1 liter of water of ammonia to each liter of formalin; or compressed ammonia gas may be used.

NOTE.—The special apparatus must consist of a generator, constructed of copper, for evolving formaldehyd gas from its solutions, and a similar one of iron for evolving ammonia gas for neutralization. The principle upon which this apparatus is constructed is described and illustrated in PUBLIC HEALTH REPORTS, Marine-Hospital Service, January 29, 1897, Vol. XII, No. 5.

L. J. GAGE,  
*Secretary.*

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

*Smallpox in Montgomery.*

EVANSVILLE, IND., *August 15, 1897.*

SIR: I have the honor to transmit herewith a telegraphic statement of the status of the smallpox outbreak in Montgomery, Ala., obtained at my request by Dr. Barclay on the 13th inst.

Very respectfully,

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

[Inclosure—Telegram.]

MONTGOMERY, ALA., *August 13, 1897.*

To Dr. J. W. BARCLAY:

Saturday (7), Sunday (8), Monday (9), no new cases. Tuesday (10), 2; Wednesday (11), 2; none since; 28 in pesthouse. Disease under good control.

W. H. SANDERS,  
*State Health Officer.*

*Smallpox in Birmingham, Ala.*

[Telegram.]

BIRMINGHAM, ALA., *August 13, 1897.*

Cases under treatment, variola, hospital, August 12, 81; over 50 per cent convalescent; 4 admissions to-day from adjacent localities; last admission from city proper August 9; only 1 death since establishment of camp; 64 suspects under detention; precautionary measures well taken. Disease in city believed under control. \* \* \*—CARINGTON, *Past 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 August 20, 1897.*

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Alabama:</b>				
Birmingham.....	May 8-Aug. 12....	96	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....	13		12 varioloid.
	Feb. 28-Mar. 10....	14		Varioloid.
	Mar. 27-Apr. 3....	3		Do.
	Apr. 10-May 1....	10		Do.
	May 2-May 22....	7		Do.
	May 29-June 5....	2		
	July 4-July 10....			1 case varioloid.
Escambia County (not including Pensacola).....	Dec. 2-Jan. 19....	18		
<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>Massachusetts:</b>				
Boston.....	May 1-May 8....	4		
	May 22-May 29....	1		
Cambridge.....	June 6-June 26....	3		Varioloid. 1 smallpox.
Gloucester.....	June 19-June 26....	1	2	
New Bedford.....	Apr. 10-Apr. 17....	1		
<b>Michigan:</b>				
Blissfield Township.....	Mar. 27-Apr. 10....			Smallpox reported.
	Apr. 17-May 1....			Do.
<b>Missouri:</b>				
St. Louis.....	April 29.....	2		
	May 1-May 22....	2	3	
<b>New York:</b>				
Brooklyn.....	Apr. 24-June 26....	5	2	
	June 27-July 24....	2	1	
New York.....	Mar. 1-Mar. 31....		2	Do.
	Apr. 17-Mar. 31....		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		
<b>Tennessee:</b>				
Memphis.....	Apr. 1-June 26....	21		
	July 4-July 17....	3		
<b>Washington:</b>				
Tacoma.....	Feb. 6.....	1		
Olympia.....	Mar. 1.....	1		

*Report of immigration at Boston for the week ended August 14, 1897.*

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Boston, August 14, 1897.*

*Number of alien immigrants who arrived at this port during the week ended August 14, 1897;  
 also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Aug. 8	Steamship Yarmouth.....	Yarmouth, Nova Scotia.....	119
Aug. 9	Steamship Halifax.....	Halifax, Nova Scotia.....	31
Do....	Steamship Brookline.....	Port Antonio, Jamaica.....	3
Do....	Schooner Walter Scott.....	Parrsboro, Nova Scotia.....	1
Do....	Steamship Peruvian.....	Glasgow, Scotland.....	71
Aug. 11	Steamship Columbian.....	London, England.....	3
Do....	Steamship Boston.....	Yarmouth, Nova Scotia.....	52
Do....	Steamship Olivette.....	Halifax, Nova Scotia.....	19
Do....	Steamship Borderer.....	San Juan, Colombia.....	1
Aug. 12	Steamship Yarmouth.....	Yarmouth, Nova Scotia.....	61
Aug. 14	Steamship Boston.....	.....do.....	35
Do....	Steamship Olivette.....	Halifax, Nova Scotia.....	40
	Total.....		436

GEORGE B. BILLINGS,  
*U. S. Commissioner of Immigration.*

*Report of immigration at New York for the week ended August 14, 1897.*

OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of New York, August 16, 1897.*

*Number of alien immigrants who arrived at this port during the week ended August 14, 1897;  
 also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Aug. 8	Steamship La Normandie.....	Havre.....	145
Aug. 9	Steamship Pisa.....	Hamburg.....	52
Do....	Steamship Peninsular.....	Lisbon and the Azores.....	79
Do....	Steamship Anchoria.....	Glasgow.....	61
Aug. 10	Steamship Westernland.....	Antwerp.....	196
Aug. 11	Steamship Victoria.....	Naples and Gibraltar.....	420
Do....	Steamship Palatia.....	Hamburg.....	74
Do....	Steamship Teutonic.....	Liverpool and Queenstown.....	281
Do....	Steamship Werra.....	Genoa, Naples, and Gibraltar.....	84
Aug. 12	Steamship Trave.....	Bremen.....	120
Do....	Steamship H. H. Meier.....	.....do.....	112
Aug. 13	Steamship Fuerst Bismark.....	Hamburg.....	178
Aug. 14	Steamship Campania.....	Liverpool and Queenstown.....	244
Do....	Steamship Paris.....	Southampton.....	79
Do....	Steamship Veendam.....	Rotterdam.....	171
	Total.....		2,296

THOMAS FITCHIE,  
*U. S. Commissioner of Immigration.*

*Report of immigration at Philadelphia for the week ended August 14, 1897.*OFFICE OF U. S. COMMISSIONER OF IMMIGRATION,  
*Port of Philadelphia, August 16, 1897.**Number of alien immigrants who arrived at this port during the two weeks ended August 14, 1897; also names of vessels and ports from which they arrived.*

Date.	Vessel.	Where from.	No. of immigrants.
Aug. 8	Steamship Belgenland.....	Liverpool and Queenstown.....	96
Aug. 9	Steamship Missouri.....	London and Swansea.....	1
Aug. 11	Steamship Switzerland.....	Antwerp.....	66
Aug. 12	Steamship Scotia.....	Hamburg.....	53
Do.....	Steamship Whitefield.....	Cardiff.....	1
Aug. 14	Steamship Waesland.....	Liverpool and Queenstown.....	142
	Total.....		359

J. L. HUGHES,  
*U. S. Commissioner of Immigration.*

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.	Aug. 14	Sp. bk. Tufalla *	July 20	Habana	Brunswick	Disinfected and held	Aug. 5		2
Brunswick, Ga.	Aug. 7	Sp. bkn. Maria *	July 25	do	do	do			2
		Sp. bk. Tula *	July 27	do	do	do			
		Br. sc. Arona *	July 28	Santos	do	do			
		Br. ss. Casos *	July 29	Habana	do	do	Aug. 3		
		Port. sc. Alice *	July 31	St. Vincent	do	do	Aug. 4		
		Br. bk. Lindores Abbey.	Aug. 2	Rio via Port Elizabeth.	do	Held for disinfection.			
Cape Charles, Va.	Aug. 14	Nor. ss. Nor *	July 27	Kingston, Jamaica.	Norfolk, Va.	Disinfected	Aug. 8	Case suspected yellow fever sent to Fishermans Island.	4
Cape Fear, N. C.	do.	Br. ss. Miramar	Aug. 10	Para, Brazil	Newport News, Va.	Held for disinfection.			
	do.	Am. sc. Bertha Louise	Aug. 12	Kingston, Jamaica.	Wilmington, N. C.	do			
Delaware Breakwater Quarantine, Del.	do.								11
Eureka, Cal.	Aug. 4							No transactions.	
Grays Harbor, Wash.	Aug. 11							do.	
Gulf Quarantine, Ship Island, Miss.	Aug. 7	Rus. bkn. Uranus *	July 26	Maranhham	Pascagoula	Disinfected and held	Aug. 4		3
		Br. ss. Weybridge *	July 29	Pernambuco	Ship Island	do	do		
		Am. bgn. Caroline Gray *	July 30	La Vela de Coro, Venezuela.	Pascagoula	do	Aug. 5		
		Am. sc. Eleanor	Aug. 4	Habana	Ship Island	do			
		Am. sc. Palos	Aug. 7	Colon	Shieldsboro	Held for disinfection.		3 cases intermittent malarial fever occurred in quarantine.	
Newbern, N. C.	Aug. 14							No transactions	8
Port Townsend Quarantine, Wash.	Aug. 7								
Reedy Island Quarantine, Del.	Aug. 14							No transactions	16

San Diego, Cal.....	Aug. 7	Br. ss. China *	July 24	Hongkong.....	San Francisco	Disinfected and released...	July 24	302 Chinese and Japanese held for observation on account of smallpox, released August 7.	2
San Francisco Quarantine, Cal.	.....do.....	.....do.....	.....do.....	.....do.....	.....do.....	Inspected and passed.....	Aug. 3	161 Chinese and Japanese disinfected.	11
South Atlantic Quarantine, Blackbeard Island, Ga.	July 31	Am. sc. Anna M. Stammer.*	July 16	Habana.....	New Orleans via Honduras.	Disinfected.....	July 28	2 cases yellow fever and 1 case dysentery at hospital.	.....
Tortugas Quarantine, Key West, Fla.	.....	Am. sc. Mabel Jordan.*	July 18	Barbados.....	Port Tampa.....	.....do.....	July 25	.....	.....
.....	.....	Er. bkn. Osburgha *.	July 19	Puerto Cabello.	Key West.....	.....do.....	July 29	Ballast removed.....	.....
.....	Aug. 7	Sp. ss. Vivina *.	July 23	Cienfuegos.....	Punta Gorda.....	.....do.....	.....do.....	5 cases malarial fever, 4 on voyage, 1 after arrival	.....
.....	.....	Am. bkn. Harriet S. Jackson.	Aug. 4	Colon.....	Pensacola.....	Disinfected and held.....	.....	No transactions.....	.....
Washington, N. C.....	Aug. 14	.....	.....	.....	.....	.....	.....	.....	.....

\* Previously reported.





Newport, R. I.....						No report.
New York, N. Y.....						do.
Perth Amboy, N. J.....						do.
Portland, Me.....						do.
Port Royal, S. C.....						No transactions.
	Aug. 7					
	Aug. 14	Sp. ss. Serra.....	Aug. 8	Martanzas, Habana, Cienfuegos, and Manzanillo.	Beaufort, S. C.	Remanded to South Atlantic Quarantine.
Providence, R. I.....	do.					No transactions.
Sabine Pass, Tex.....						No report.
St. Helena Entrance, S. C.						do.
Savannah, Ga.....	Aug. 14	Sp. bgrn. Alfreda..... Br. s. Scottish Min- sirel.	Aug. 11 Aug. 13	Habans..... Santos.....	Savannah.....	Held for disinfection..... Held for quarantine regu- lations.
Tampa Bay, Fla.....	do.	Br. ss. Tresco.....	Aug. 14	Boston via Mexican ports.	Port Tampa...	Held for disinfection.....

\* Previously reported.

3

16

Came from Mexican ports, and left patient in Boston, disease unknown.

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

CALIFORNIA—*Los Angeles*.—Month of July, 1897. Estimated population, 103,000. Total deaths, 121, including phthisis pulmonalis, 6; enteric fever, 1; diphtheria, 5, and whooping cough, 2.

*Oakland*.—Month of July, 1897. Estimated population, 75,000. Total deaths, 74, including phthisis pulmonalis, 8; enteric fever, 1, and whooping cough, 1.

COLORADO—*Denver*.—Month of July, 1897. Estimated population, 106,713. Total deaths, 166, including phthisis pulmonalis, 31; enteric fever, 7, and scarlet fever, 1.

CONNECTICUT.—Month of July, 1897. Reports to the State board of health from 168 towns, having an aggregate population of 883,192, show a total of 1,225 deaths, including phthisis pulmonalis, 117; enteric fever, 12; scarlet fever, 4; diphtheria and croup, 17; measles, 6, and whooping cough, 10.

FLORIDA—*Tampa*.—Month of July, 1897. Estimated population, 26,000. Total deaths, 12, including 3 from phthisis pulmonalis.

MAINE.—*Portland*.—Four weeks ended August 7, 1897. Estimated population, 41,500. Total deaths, 66, including phthisis pulmonalis, 5; diphtheria, 2, and measles, 1.

MASSACHUSETTS—*Fitchburg*.—Month of July, 1897. Estimated population, 28,392. Total deaths, 41, including phthisis pulmonalis, 3; diphtheria, 2, and measles, 1.

MICHIGAN.—Week ended August 7, 1897. Reports to the State board of health from 59 observers indicate that intermittent fever, erysipelas, bronchitis, and dysentery increased, and cholera morbus decreased in area of prevalence. Phthisis pulmonalis was reported present during the week at 193 places, measles at 35, diphtheria at 21, enteric fever at 18, whooping cough at 14, and scarlet fever at 12 places.

MINNESOTA—*Minneapolis*.—Month of July, 1897. Estimated population, 192,833. Total deaths, 173, including phthisis pulmonalis, 17; enteric fever, 12; scarlet fever, 1, and whooping cough, 2.

*St. Paul*.—Month of July, 1897. Estimated population, 215,582. Total deaths, 141, including phthisis pulmonalis, 18; scarlet fever, 1; diphtheria, 2, and whooping cough, 2.

MISSOURI—*St. Louis*.—Month of July, 1897. Estimated population, 600,000. Total deaths, 925, including phthisis pulmonalis, 53; enteric fever, 10; diphtheria, 3; croup, 1, and whooping cough, 5.

NEW HAMPSHIRE—*Manchester*.—Month of July, 1897. Estimated population, 60,000. Total deaths, 109, including phthisis pulmonalis, 6; enteric fever, 1, and whooping cough, 3.

NEW YORK—*Buffalo*.—Month of July, 1897. Estimated population, 360,000. Total deaths, 435, including phthisis pulmonalis, 32; enteric fever, 8; diphtheria, 5; scarlet fever, 4; measles, 6, and whooping cough, 6.

*Mount Vernon.*—Month of July, 1897. Estimated population, 22,000. Total deaths, 17, including 1 from diphtheria.

OHIO—*Dayton.*—Month of July, 1897. Estimated population, 85,000. Total deaths, 114, including phthisis pulmonalis, 13; enteric fever, 1, and whooping cough, 2.

PENNSYLVANIA—*Williamsport.*—Month of July, 1897. Estimated population, 35,000. Total deaths, 14, including 1 from diphtheria.

RHODE ISLAND—*Newport.*—Month of July, 1897. Estimated population, 21,500. Total deaths, 22, including 1 from whooping cough.

TENNESSEE—*Nashville.*—Month of July, 1897. Estimated population—white, 54,595; colored, 33,159; total, 87,754. Deaths, white, 93, colored, 88; total, 181, including phthisis pulmonalis, 24, and enteric fever, 7.

VIRGINIA—*Richmond.*—Month of July, 1897. Estimated population—white, 56,400; colored, 47,120; total, 103,560. Deaths, white, 62; colored, 62; total, 124, including phthisis pulmonalis, 10; enteric fever 1, and whooping cough, 5.

WASHINGTON—*Seattle.*—Month of July, 1897. Estimated population, 60,000. Total deaths, 34, including phthisis pulmonalis, 2; diphtheria, 1, and enteric fever, 2.

WISCONSIN—*Milwaukee.*—Month of July, 1897. Estimated population, 275,000. Total deaths, 273, including phthisis pulmonalis, 23; enteric fever, 3, and diphtheria, 10.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

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.		
Amesbury, Mass.....	Aug. 15..	9,798	4													
Ashtabula, Ohio.....	Aug. 14..	8,338	1													
Baltimore, Md.....	do.....	484,439	181	15						11	1	3				1
Bennington, Vt.....	Aug. 7..	6,391	2							1						
Binghamton, N. Y.....	Aug. 14..	35,005	24	2								1				
Boston, Mass.....	do.....	448,477	242	14						6	2	6				1
Brockton, Mass.....	July 31..	27,294	6	1								1				
Do.....	Aug. 7..	27,294	6													
Brooklyn, N. Y.....	Aug. 7..	806,343	374	42						5		15	4			4
Brownsville, Tex.....	Aug. 7..	6,134	3													
Butler, Pa.....	Aug. 14..	8,734	2													
Cambridge, Mass.....	do.....	70,028	38	4								1				1
Carlisle, Pa.....	do.....	7,620	1													
Charleston, S. C.....	July 31..	*54,955	†33	8						2						
Do.....	Aug. 7..	54,955	†33	1						1	1					
Chicago, Ill.....	do.....	1,099,850	492	42						7	1	16				2
Cincinnati, Ohio.....	Aug. 13..	296,908	90	10						1	1	1				1
Columbus, Ind.....	Aug. 14..	6,719	5	1						1						
Columbus, Ohio.....	do.....	88,150	17	3						1						
Dayton, Ohio.....	Aug. 13..	61,220	38	1												
Denver, Colo.....	July 24..	106,713	37	8						3						
Do.....	July 31..	106,713	34	8						3						
Do.....	Aug. 7..	106,713	29	4						5		2				
Everett, Mass.....	Aug. 6..	11,068	8							1						1
Fall River, Mass.....	Aug. 14..	74,398	62	4						1						
Fitchburg, Mass.....	Aug. 7..	22,037	8	1												
Flint, Mich.....	Aug. 14..	9,803	3	1												
Galveston, Tex.....	July 2..	29,084	12	1												1
Do.....	July 9..	29,084	14	1						1						
Do.....	July 16..	29,084	13	1						1						
Do.....	July 23..	29,084	8	1												
Do.....	July 30..	29,084	16							1						
Gloucester, Mass.....	Aug. 7..	24,651	3													
Grand Rapids, Mich.....	Aug. 14..	60,278	14													
Green Bay, Wis.....	Aug. 7..	6,069	5													
Haverhill, Mass.....	Aug. 14..	27,412	3	1												
Hoboken, N. J.....	do.....	43,648	19	2												
Ironton, Ohio.....	do.....	10,939	7	1												
Jacksonville, Fla.....	do.....	17,201	13	3												
Johnstown, Pa.....	do.....	21,808	8													1
Lawrence, Mass.....	Aug. 7..	44,654	25							1						
Lebanon, Pa.....	Aug. 8..	14,664	3													
Do.....	Aug. 15..	14,664	10									1				
Lowell, Mass.....	Aug. 14..	77,696	45	1						1						
Lynchburg, Va.....	do.....	19,709	11	4												
McKeesport, Pa.....	Aug. 7..	20,741	8							1						
Manchester, N. H.....	Aug. 14..	44,126	22	4												
Massillon, Ohio.....	Aug. 7..	10,092	3							1						
Do.....	Aug. 14..	10,092	2													
Medford, Mass.....	do.....	11,079	9													
Memphis, Tenn.....	do.....	64,495	21	3												
Michigan City, Ind.....	do.....	10,776	4													
Middletown, N. Y.....	Aug. 7..	11,977	3													
Milwaukee, Wis.....	Aug. 14..	204,468	82	7						1		2				
Minneapolis, Minn.....	Aug. 7..	164,738	46	1						3						1
Mobile, Ala.....	Aug. 14..	31,076	12	1												
Nashville, Tenn.....	do.....	76,168	27	5						1		1				
New Bedford, Mass.....	do.....	40,733	14	1												
Newburyport, Mass.....	Aug. 7..	13,947	4													
New Orleans, La.....	do.....	242,039	148	13						4		1				
Do.....	Aug. 14..	242,039	106	19						5						
Newport, R. I.....	do.....	19,457	7													
New York, N. Y.....	do.....	1,515,301	90							9	3	27	5			5
Norristown, Pa.....	do.....	19,791	3	1												
North Adams, Mass.....	do.....	16,074	12	1												1
Omaha, Nebr.....	Aug. 7..	140,452	25									1				
Oneonta, N. Y.....	Aug. 14..	6,272	0													
Pensacola, Fla.....	Aug. 7..	11,750	7	1												
Do.....	Aug. 14..	11,750	7	2						1						
Petersburg, Va.....	Aug. 8..	22,680	6							1						
Do.....	Aug. 15..	22,680	9	1						1						

\*Estimated population, 65,165; white, 28,870; colored, 36,295. † White, 5; colored, 28; ‡ white, 7; colored, 26.

## 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.	
Philadelphia, Pa.....	Aug. 14....	1,046,964	406	46							9	4	21	1	11
Pittsfield, Mass.....	do.....	17,281	10												
Providence, R. I.....	do.....	132,146	53	7									1		
Pueblo, Colo.....	Aug. 7.....	24,558	7												
Salt Lake City, Utah.....	do.....	44,843	6	1											
San Diego, Cal.....	do.....	16,159	1												
Santa Barbara, Cal.....	do.....	5,864	2												
Scranton, Pa.....	Aug. 14....	75,215	24	1						1			2		1
Utica, N. Y.....	Aug. 7.....	44,007	18	3									1		
Do.....	Aug. 14....	44,007	23	1											
Virginia City, Nev.....	July 24....	8,511	1										1		
Do.....	July 31....	8,511	0												
Do.....	Aug. 7.....	8,511	1												
Waltham, Mass.....	Aug. 14....	18,707	5												
Warren, Ohio.....	do.....	5,973	3												
Washington, D. C.....	Aug. 7.....	230,392	94	11						1			1		7
West Newton, Mass.....	Aug. 14....	24,379	18												
Wilmington, Del.....	do.....	61,431	22	1									1		
Winona, Minn.....	Aug. 7.....	18,208	5											1	
Worcester, Mass.....	Aug. 6.....	84,655	38	3						1					
Yonkers, N. Y.....	do.....	32,033	20	1											
Do.....	Aug. 13....	32,033	32										1		
Youngstown, Ohio.....	Aug. 14....	33,220	10							1					

Table of temperature and rainfall, week ended August 16, 1897.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	* Excess.	* Defic'ncy.	Normal.	Excess.	Deficiency.
<b>Atlantic Coast:</b>						
Eastport, Me.....	61		3	.77	.98	
Portland, Me.....	63		2	.89		.69
Northfield, Vt.....	63	3		1.15	.35	
Boston, Mass.....	70	2		1.10		.80
Vineyard Haven, Mass.....	72	0		1.18		.78
Nantucket, Mass.....	69	1		.70		.60
Woods Hole, Mass.....	69	1		.91		.71
Block Island, R. I.....	69	1		.78		.06
New Haven, Conn.....	71		1	1.23	.47	
Albany, N. Y.....	71	1		.91	.69	
New York, N. Y.....	73		5	1.11		.51
Harrisburg, Pa.....	73		1	1.05		.15
Philadelphia, Pa.....	75		1	1.02	.88	
New Brunswick, N. J.....	72	0		1.14		.24
Atlantic City, N. J.....	72	2		1.18	.02	
Baltimore, Md.....	75	1		.91	1.59	
Washington, D. C.....	75	0		.91	1.19	
Lynchburg, Va.....	76	0		.91		.91
Cape Henry, Va.....	77	1		1.26		.56
Norfolk, Va.....	77	3		1.44		1.34
Charlotte, N. C.....	77	1		1.26	.14	
Raleigh, N. C.....	76	4		1.96		1.86
Kittyhawk, N. C.....	78	2		1.66		1.56
Hatteras, N. C.....	77	3		1.40		.80
Wilmington, N. C.....	78	2		1.71		1.21
Columbia, S. C.....	79	1		1.67		1.57
Charleston, S. C.....	81	1		1.75		1.45
Augusta, Ga.....	80	0		1.19	2.61	
Savannah, Ga.....	81	1		1.81	1.49	
Jacksonville, Fla.....	81	1		1.47	1.79	
Jupiter, Fla.....	81	3		1.05		.45
Key West, Fla.....	84	0		1.03		.23
<b>Gulf States:</b>						
Atlanta, Ga.....	77		1	1.05		.25
Tampa, Fla.....	81	1		2.17	.63	
Pensacola, Fla.....	81		1	2.03		.03
Mobile, Ala.....	81		1	1.61	1.29	
Montgomery, Ala.....	80	0		.96		.46
Vicksburg, Miss.....	80	0		.77	.23	
New Orleans, La.....	82	0		1.40	.60	
Shreveport, La.....	82	0		.38	.32	
Fort Smith, Ark.....	79		1	.84		.84
Little Rock, Ark.....	79		1	.98		.68
Palestine, Tex.....	81	3		.61		.41
Galveston, Tex.....	83	1		1.23		1.23
San Antonio, Tex.....	82	2		.87		.67
Corpus Christi, Tex.....	82	0		.62		.52
<b>Ohio Valley and Tennessee:</b>						
Memphis, Tenn.....	80		2	.84	.06	
Nashville, Tenn.....	79		3	.72		.32
Chattanooga, Tenn.....	77		1	.98		.78
Knoxville, Tenn.....	75	1		.98		.58
Louisville, Ky.....	77		1	.84		.54
Indianapolis, Ind.....	74		2	.74		.74
Cincinnati, Ohio.....	76		2	.91		.61
Columbus, Ohio.....	73		1	.77		.57
Parkersburg, W. Va.....	72	2		.91		.51
Pittsburg, Pa.....	73		1	.70	.20	
<b>Lake Region:</b>						
Oswego, N. Y.....	68	6		.56	.34	
Rochester, N. Y.....	68	2		.70	.50	
Buffalo, N. Y.....	69	1		.70	.20	
Erie, Pa.....	70		2	.74	2.26	
Cleveland, Ohio.....	70	0		.70	.10	
Sandusky, Ohio.....	71	1		.70		.20
Toledo, Ohio.....	71	1		.63	.07	
Detroit, Mich.....	70		2	.63	.17	
Lansing, Mich.....	69		3	.61	.09	
Port Huron, Mich.....	67	1		.56	.54	
Alpena, Mich.....	63	1		.77	.33	
Sault Ste. Marie, Mich.....	61	3		.56	1.44	
Marquette, Mich.....	63	1		.63	.77	
Green Bay, Wis.....	67	1		.63	.27	

\* The figures in these columns represent the average daily departure.

Table of temperature and rainfall, week ended August 9, 1897—Continued.

Locality.	Temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	*Excess.	*Defic'ncy.	Normal.	Excess.	Deficiency.
<b>Lake Region—Continued.</b>						
Grand Haven, Mich.....	67		1	.56	.44	
Milwaukee, Wis.....	68	2		.63		.23
Chicago, Ill.....	71		1	.70		.10
Duluth, Minn.....	65		1	.70	.40	
<b>Upper Mississippi Valley:</b>						
St. Paul, Minn.....	69		1	.77		.67
La Crosse, Wis.....	70		2	.65		.35
Dubuque, Iowa.....	72		4	.68		.38
Davenport, Iowa.....	73		3	.84		.84
Des Moines, Iowa.....	73		3	.77		.77
Keokuk, Iowa.....	75		3	.63		.63
Springfield, Ill.....	74		2	.49		.49
Cairo, Ill.....	78		2	.63		.23
St. Louis, Mo.....	78		2	.77		.67
<b>Missouri Valley:</b>						
Columbia, Mo.....	75		3	.59		.39
Springfield, Mo.....	76		2	.91		.91
Kansas City, Mo.....	77		3	.91	.19	
Wichita, Kans.....	79		3	.87	.13	
Concordia, Kans.....	77		5	.64		
Lincoln, Nebr.....	74		2	1.12		.52
Omaha, Nebr.....	74		2	.77		.17
Sioux City, Iowa.....	73		7	.98		.58
Yankton, S. Dak.....	72		6	.70		.40
Valentine, Nebr.....	72		4	.49		.39
Huron, S. Dak.....	70		8	.62		.52
Pierre, S. Dak.....	74		4	.40		.40
Moorhead, Minn.....	66		0	.61	.29	
Bismarck, N. Dak.....	68		4	.43	.47	
Williston, N. Dak.....	68		0	.28		.08
<b>Rocky Mountain Region:</b>						
Havre, Mont.....	66	4		.34		.34
Helena, Mont.....	67	3		.14	.06	
Miles City, Mont.....	73	1		.24		.24
Rapid City, S. Dak.....	71		1	.28		.28
Spokane, Wash.....	70		0	.07		.07
Wallawalla, Wash.....	74	2		.02		.02
Baker City, Oreg.....	67	1		.00		.00
Salt Lake City, Utah.....	76		0	.14		.14
Lander, Wyo.....	68		4	.21		.21
Cheyenne, Wyo.....	66	0		.35	.25	
North Platte, Nebr.....	72		2	.56		.56
Denver, Colo.....	71		1	.35		.35
Pueblo, Colo.....	74		0	.49		.09
Dodge City, Kans.....	76		2	.70	.20	
Oklahoma, Okla.....	80		4	.67	.03	
Amarillo, Tex.....	73	1		.74	.56	
Abilene, Tex.....	83		3	.63	.87	
Santa Fe, N. Mex.....	67	1		.63		.63
El Paso, Tex.....	80		2	.42	1.48	
Phoenix, Ariz.....	89	1		.28		.18
<b>Pacific Coast:</b>						
Fort Canby, Wash.....	59	3		.14		.06
Portland, Oreg.....	67	5				
Roseburg, Oreg.....	67	3		.07		.07
Eureka, Cal.....	56	2		.00		.00
Redbluff, Cal.....	82		2	.00		.00
Carson City, Nev.....	68	2		.00		.00
Sacramento, Cal.....	73	1		.00		.00
San Francisco, Cal.....	58		0	.00		.00
Fresno, Cal.....	82		2	.04		.00
Los Angeles, Cal.....	71		3	.00		.00
San Diego, Cal.....	70		2	.03		.03
Yuma, Ariz.....	92		0	.09		.09

\*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 August 17, 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	
Calcutta.....	July 1-July 13.....		50	
	Nov. 14-Jan. 30.....		267	
	Jan. 31-Feb. 27.....		311	
	Feb. 28-Mar. 6.....		125	
	Mar. 6-May 29.....		1,310	
	May 30-June 26.....		176	
Madras.....	July 27-July 3.....		39	
	Nov. 21-Nov. 27.....		2	
	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. 28.....		2	
	May 29-June 25.....		4	
Singapore.....	June 26-July 9.....		2	
	Nov. 1-Nov. 30.....		12	
	Dec. 1-Dec. 31.....		5	
<b>Ceylon :</b>				
Colombo .....	Nov. 28-Jan. 23.....		114	
	Jan. 23-Jan. 30.....	1	1	
<b>England :</b>				
Plymouth.....	Jan. 9.....		4	On steamship <i>Nubia</i> . No cases in city.
<b>Japan :</b>				
Fukuoka Ken.....	June 28-July 25.....	4	2	
Hiogo Ken.....	June 28-July 6.....	1	1	
Kanagawa Ken.....	July 7-July 25.....	6	4	
Kioto Fu.....	July 16-July 25.....	1	1	
Osaka.....	May 1-July 6.....	13	2	
	July 16-July 25.....	2	2	
Oyama Ken.....	June 28-July 6.....	1	1	
Saitama.....	July 16-July 25.....	1	1	
Tokyo.....	Dec. 4-Dec. 29.....	8	7	
	Dec. 30-Jan. 18.....	3	3	
	June 28-July 25.....	15	7	
Yamanashi Ken.....	July 7-July 15.....	1	1	
Yokohama.....	Dec. 4-Dec. 29.....	4	3	
	Dec. 30-Jan. 18.....	2	2	

YELLOW FEVER.

<b>Brazil :</b>				
Bahia .....	May 13-May 19.....	5	3	
	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 17.....		8	
	Rio de Janeiro.....	Nov. 21-Dec. 26.....		10
Dec. 26-Jan. 30.....			28	
Jan. 31-Feb. 6.....		12	5	
Feb. 13-Feb. 20.....		21	6	



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

## YELLOW FEVER—Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
<b>Brazil—Continued.</b>				
Rio de Janeiro.....	Feb. 20-Mar. 6.....	.....	16	
	Mar. 7-May 29.....	174	78	
	May 30-July 3.....	10	7	
	July 4-July 10.....	2	.....	
<b>Cuba: *</b>				
Cardenas.....	Dec. 25-Jan. 30.....	84	8	
	Jan. 31-Feb. 27.....	38	1	
	Apr. 17-June 23.....	46	9	
	June 27-July 31.....	7	3	
	Aug. 1-Aug. 7.....	.....	2	
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. 8.....	.....	6	
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-Aug. 12.....	.....	23	
Manzanillo.....	Apr. 1-Apr. 15.....	.....	1	
	May 15-May 31.....	.....	1	
	June 1-June 15.....	.....	1	
	July 2-July 31.....	.....	6	
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-Aug. 11.....	.....	9	
Santiago.....	Dec. 5-Dec. 26.....	.....	17	
	Dec. 26-Jan. 30.....	.....	16	
	Jan. 16-Jan. 31.....	.....	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. 7.....	.....	7	
Sagua la Grande.....	Dec. 19-Dec. 26.....	50	5	
	Dec. 26-Jan. 9.....	65	6	
	Jan. 9-Jan. 30.....	110	12	
	Jan. 31-Feb. 27.....	35	7	
	Feb. 27-Mar. 27.....	54	17	
	Mar. 28-June 26.....	304	.....	Number of deaths not given.
	June 17-July 31.....	185	9	
	Aug. 1-Aug. 7.....	32	4	
<b>Ecuador:</b>				
Guayaquil.....	Dec. 18-Jan. 10.....	.....	9	
<b>Haiti:</b>				
Port au Prince.....	Dec. 1-Dec. 7.....	.....	2	
	Dec. 14.....	.....	.....	Yellow fever epidemic.
	Mar. 1-Mar. 8.....	.....	3	
<b>Guadeloupe:</b>				
Basse Terre.....	Jan. 5.....	1	.....	
<b>Jamaica:</b>				
Kingston.....	July 19.....	2	1	
<b>Mexico:</b>				
Vera Cruz.....	June 28.....	.....	.....	Yellow fever reported.
	June 25-July 1.....	.....	2	
	June 29.....	.....	2	
<b>Peru:</b>				
Callao.....	June 10-June 17.....	.....	2	In harbor on steamship <i>Santiago</i> from Panama.
<b>United States of Colombia:</b>				
Panama.....	Apr. 14.....	20	17	
	June 25.....	91	62	Estimated.
	June 23-July 3.....	12	7	
	July 4-Aug. 3.....	33	15	
	May 12-May 25.....	.....	5	

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

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

## PLAGUE.

Places.	Date.	Cases.	Deaths.	Remarks.
Arabia: Jeddah .....	June 10.....	16	23	
Egypt: Suez.....	Mar. 31.....			One case of plague on Br. ss. <i>Dilwara</i> from Bombay.
India: Bombay * .....	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.
	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-July 13.....		11	
Calcutta.....	Feb. 6-Feb. 13.....		1	
Karachi.....	Jan. 11.....			Plague epidemic; 220 cases, 214 deaths to date.
China:				
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	
Macao.....	Apr. 1-May 31.....		154	
	June 1-June 3.....	43		
Swato .....	June 1.....			Plague epidemic reported.
Japan:				Epidemic of plague reported.
Formosa .....	May 4.....			
	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	
	Apr. 20-May 20.....	268		
	May 31-June 27.....	144		
	June 28-July 25.....	25		
Kanagawa Ken.....	July 7-July 25.....	2	2	
Nagasaki Ken.....	June 9-June 27.....	3	3	
Taihoku.....	Apr. 20-Apr. 27.....	3		
Russia:				
St. Petersburg.....	Apr. 10-Apr. 17.....		1	
Theodosia.....	Mar. 31.....			One case of plague on Br. ss. <i>Baldwin</i> .

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

BARBADOS.

*Charges for board while detained at quarantine station, Barbados.*

As the provision and grocery stores in Bridgetown close on week days at 4.30 p. m., and on Sundays at 9 a. m., and it is not possible to provide after these hours for persons from vessels in quarantine who may desire to be quarantined at the station, such persons will therefore be received at the station on week days, only between 6 a. m. and 4 p. m., and on Sundays between 6 a. m. and 9 a. m., except previous arrangement should be made with the clerk to receive them after those hours.

The charges for persons quarantined at the station are :

FIRST CLASS.

For 1 person .....	per day...	\$3 00
For 2 persons quarantined at same time .....	each per day...	2 50
For 3 to 5 persons quarantined at same time.....	do.....	2 00
For 6 to 9 persons quarantined at same time.....	do.....	1 50
For over 9 persons quarantined at same time.....	do.....	1 20

Three children, aged 1 to 8 years, equal to 1 adult person.  
Two children, aged 9 to 15 years, equal to 1 adult person.

Servants in attendance on their employers, one-half of above amounts.

Liquors are not included in the above charges.

Second-class, three-fourths of above amounts. Third-class, one-half of above amounts.

JAMES SANDERSON,

*Clerk, Quarantine Board, Barbados.*

APRIL 5, 1897.

CANADA.

*Smallpox in Montreal.*

MONTREAL, August 12, 1897.

The present status of smallpox in this province is as follows :

Municipality.	Date of out-break.	New cases since last report.	Total cases since outbreak.	Died.	Still sick.	Houses infected since outbreak.	Houses still infected.
Montreal City*.....	July 2	†4	8	4	4	4	†0
Westmount (Hochelaga Co.)‡	July 26	‡1	4	.....	4	1	†0

\* Population, 240,000.

† Two of these are the 2 cases reported as doubtful in my last report (August 6). The other two are from a family who was quarantined on the hospital grounds since the 1st of August as being suspects.

‡ Except the isolation hospital.

§ Population, 6,000.

¶ The new case in Westmount is the servant of the previously infected family.

Yours, respectfully,

ELZÉAR PELLETIER,

*Secretary Board of Health of the Province of Quebec.*

CUBA.

*Smallpox and yellow fever in Cuban seaports.*

August 10: The United States consul at Cardenas reports that during the week ended August 7 there were in that city 2 deaths from yellow fever and 2 deaths from smallpox.

August 9 : The United States consul at Cienfuegos reports that during the week ended August 8 there were in that city 6 deaths from yellow fever.

August 13 : The United States sanitary inspector at Habana reports that during the week ended August 12 there were in that city 23 deaths from yellow fever and no deaths from smallpox.

August 6 : The United States consular agent at Manzanillo reports that during the two weeks ended July 31 there were in that city 2 deaths from yellow fever.

August 13 : The United States sanitary inspector at Matanzas reports that during the two weeks ended August 11 there were in that city 13 deaths from yellow fever.

August 7 : The United States consul at Santiago de Cuba reports that during the two weeks ended August 7 there were in that city 24 deaths from yellow fever.

August 9 : The United States consul at Sagua la Grande reports that during the two weeks ended August 7 there were in that city 65 cases and 8 deaths from yellow fever, and 70 cases and 10 deaths from smallpox.

*Sanitary report from Habana.*

HABANA, CUBA, August 13, 1897.

SIR : The following report for the week ended August 12 is respectfully submitted :

The heat for the past ten days has been intense, the trade winds having been light, and there has been an absence of the daily rainfall for about one week. It has been almost impossible to remain any time exposed to the direct rays of the sun without serious results, hence the harbor work has been very trying. In spite of all the conditions existing, which are supposed to favor the spread of yellow fever, it would appear from the mortality table in this report that this disease is decreasing. This appearance is not real. As stated in a previous report, the deaths from yellow fever are being absorbed by those credited to other diseases. The military hospitals are filled with patients, and it is a well-known fact that patients brought to the hospitals in and around this city suffering from some other cause will invariably develop yellow fever soon after admission if there is not a history of a previous attack.

There are but few cases of smallpox left in the city. A fair estimate of the number of cases of the disease would be 10. An examination of persons applying at this office for certificates to go to the United States demonstrates the fact that vaccination and revaccination have been the universal practice. This statement holds good not only for residents of this city, but it also applies to persons coming from Matanzas, Cienfuegos, Sagua la Grande, and even the rural districts. The last death from smallpox in this city, occurred on July 20.

It will be noticed from the mortality table that the deaths from enteric fever and pernicious fever (?) are, together, in excess of those occurring from yellow fever, while malarial or paludal fever caused 7 deaths. The mortality from all causes shows each week a steady increase and correspondingly increased ratio per 1,000.

There are no vessels at the Tallapiedra Wharf, the last vessel to leave there being the American brigantine *Gabrielle*.

On the 9th instant I reported to the Bureau the master of this vessel being convalescent from an attack of malarial fever. On the 10th instant 3 more cases developed, all of a light type, the vessel then being in the open bay and well removed from the city. The vessel was held for two days to observe the men who were sick, when, it being evident they were suffering from malarial fever, the master was given his bill of health to proceed to Ship Island Quarantine Station, the medical officer in charge of that station being notified of the sickness on board.

James Young, chief engineer of the steamship *Yucatan*, from New York to this place, died on the morning of the 11th instant, about twenty-four hours before reaching this port, from hypertrophy of the heart. I issued a certificate to that effect, after an examination of the body and after obtaining a history of the case. No necropsy was held, the history of the case being clear and I being conversant with said history, as I had made an examination of Young not two weeks before, said examination showing the condition named in my certificate.

Very respectfully,

W. F. BRUNNER,  
Sanitary Inspector, U. S. M. H. S.

[Inclosure.]

*Comparative statistics of the mortality of the city of Habana for the weeks ended July 15, July 22, July 29, August 5, and August 12, 1897.*

Disease.	Week ended—				
	July 15.	July 22.	July 29.	Aug. 5.	Aug. 12.
Yellow fever .....	41	48	40	28	23
Enteric fever .....	11	14	17	21	20
Pernicious fever .....	10	6	14	14	13
Paludal fever .....	2	3	3	2	7
Dysentery .....	9	22	21	23	39
Enteritis .....	12	23	30	42	36
Smallpox .....	1	3	0	0	0
Glanders .....	1		1	1	1
Diphtheria .....		1	1	1	1
Pneumonia .....	6	3	3	3	14
Tuberculosis .....	29	28	32	38	31
From all causes .....	235	264	284	306	317
Annual ratio per 1,000.....	61.10	68.64	73.84	79.56	82.42

*Sanitary reports from Santiago.*

SANTIAGO DE CUBA, *July 31, 1897.*

SIR: I have the honor to inform you that there were 86 deaths at Santiago de Cuba during the week ended July 31. Of these, 17 were from yellow fever, 5 from dysentery, 9 from enteritis, 4 from tuberculosis, 2 from remittent, and 12 from pernicious fevers; the rest from common diseases noncontagious in character.

I have reliable information showing that the sickness and mortality in the villages and surrounding suburbs are appalling. Cristo, with a population of about 2,000 inhabitants, has from 3 to 5 deaths daily. St. Louis, with about 3,000, shows about 4 deaths daily. Yellow fever among the soldiers is causing many deaths.

Respectfully,

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

SANTIAGO DE CUBA, August 7, 1897.

SIR: I have the honor to inform you that the sanitary condition of Santiago de Cuba has improved some during the week ended August 7.

There were 76 deaths for this period, of which 7 were from yellow fever, 12 from dysentery, 4 from remittent and 13 from pernicious fevers, 6 from tuberculosis, and 8 from enteritis, acute and chronic; the rest from noncontagious diseases.

Malarial fevers are prevalent now to a great extent, especially the pernicious forms, which are very deadly in their course. Yellow fever seems to decrease at present, but the arrival of fresh troops will certainly revive its destructive work.

Respectfully,

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

JAPAN.

Sanitary report from Yokohama.

YOKOHAMA, July 27, 1897.

SIR: I have the honor to forward herewith my regular report of infectious disease in Japan, for period July 16 to July 25, inclusive.

The sanitary condition of the Empire is certainly exceptionally good for the season of the year.

The single case of plague, returned from this (Kanagawa) Ken, was a second occurrence of the disease upon the Japanese steamship *Toyo Maru*, which, as already reported to you, arrived from Formosa, at Yokohama quarantine, July 9 with the body of a plague patient on board. The second case manifested itself on the night of the 16th, a few hours before the ship was to have been released from detention, and the steamer was accordingly quarantined for a further period of seven days. Ten days having elapsed since the death of the last case it is probable that the disease has been successfully handled by the health authorities.

I am, sir, very respectfully, your obedient servant,

STUART ELDRIDGE, M. D.,  
Sanitary Inspector, U. S. M. H. S.

[Inclosure.]

Report of infectious diseases in Japan, July 16 to July 25, 1897.

Locality.	Cholera.		Dysentery.		Smallpox.		Plague.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Kioto Fu.....	1	1	3		7			
Osaka Fu.....	2	2	18	1	2		1	
Tokyo Fu.....	8	5	147	(*) 1	1			
Aichi Ken.....			89	23	4			
Akita Ken.....			2					
Awomori Ken.....			1		1			
Chiba Ken.....								
Fukui Ken.....			4					
Fukuoka Ken.....	2	2						
Fukushima Ken.....					7		1	
Gifu Ken.....			17					
Gumma Ken.....			6	1				
Hioo Ken.....			12	1	1			
Hiroshima Ken.....			20	2	2			
Ibaraki Ken.....								
Ishikawa Ken.....			4	1				
Iwate Ken.....								
Kagawa Ken.....	4	2	2	1	2			

\* No report.

## Report of infectious disease in Japan, July 16 to July 25, 1897—Continued.

Locality	Cholera.		Dysentery.		Smallpox.		Plague.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Kagoshima Ken.....								
Kanagawa Ken (Yokohama).....			12	3			1	1
Kochi Ken.....			4	3	2			
Kumamoto Ken.....			29	6	1	1		
Miyagi Ken.....								
Miyazaki Ken.....								
Miye Ken.....								
Nagano Ken.....								
Nagasaki Ken.....			23	1	45	17		
Nara Ken.....								
Niigata Ken.....								
Oita Ken.....			4	1	3			
Okayama Ken.....					1			
Okinawa Ken.....								
Saga Ken.....					2	1		
Saitama Ken.....	1	1	38	7				
Shidzuoka Ken.....			76	11	1	1		
Shiga Ken.....					2			
Shimane Ken.....			1					
Tochigi Ken.....								
Tokushima Ken.....			10		9	6		
Tottori Ken.....					4	1		
Toyama Ken.....								
Wakayama Ken.....								
Yamagata Ken.....								
Yamaguchi Ken.....								
Yamanashi Ken.....			33	3	4	1		
Yehime Ken.....			29	6				
The Hokkaido.....					3			
Taiwan (Formosa).....							4	(*)
Totals.....	18	13	584	71	104	30	5	1

\* No report.

## MEXICO.

*False rumor of cholera.*

EL PASO, TEX., August 9, 1897.

SIR: I have the honor to acknowledge telegram dated Washington, D. C., August 9, 1897, referring to a dispatch from El Paso to the New York Sun, August 6, saying: "Twenty-five deaths from cholera in Ysleta, Mexico, 10 miles from El Paso, probably false. Wire report." Immediately upon receipt of same I wired: "Have investigated rumors of day before yesterday concerning cholera reported at Ysleta. All the cholera I know of is cholera morbus, caused by eating green fruit and chile, the Mexican pepper."

Some two weeks ago a man engaged in delivering ice here died suddenly of cholera morbus. It was found that a few hours before his death he ate unripe fruit and green watermelons. Ever since rumors have been afloat that genuine cholera caused several deaths in the neighborhood and a day or two ago it was reported that several deaths occurred from the same disease at Ysleta. Investigating, I found that there had been several cases of cholera morbus, no doubt brought about as in the case reported at El Paso. However, there was not a single fatal case of cholera morbus at Ysleta.

There is considerable diphtheria at San Elizario, a town some 20 miles east of El Paso in El Paso County. It has a population of some 2,000, nine-tenths of which population are Mexicans and of Mexican descent. The county judge appointed a special physician, believing that quaran-

tine measures are necessary in the town of San Elizario on account of the prevalence of diphtheria.

I am, sir, very respectfully,

E. ALEXANDER,  
Sanitary Inspector, U. S. M. H. S.

#### STATISTICAL REPORTS.

**BAHAMAS—Dunmore Town.**—Two weeks ended July 30, 1897. Estimated population, 1,472. No deaths.

**Governors Harbor.**—Two weeks ended July 30, 1897. Estimated population, 1,500. One death. No death from contagious disease.

**Green Turtle Cay—Abaco.**—Two weeks ended July 29, 1897. Estimated population, 3,900. No deaths.

**CANADA—Nova Scotia—Windsor.**—Month of July, 1897. Estimated population, 3,000. Total deaths, 4. No deaths from contagious diseases.

**CUBA—Manzanillo.**—Two weeks ended July 31, 1897. Estimated population, 18,000. Total deaths, 140, including yellow fever, 2, and enteric fever, 5.

**GREAT BRITAIN—England and Wales.**—The deaths registered in 33 great towns in England and Wales during the week ended July 31 correspond to an annual rate of 22.9 a thousand of the aggregate population, which is estimated at 10,992,524. The highest rate was recorded in Liverpool, viz, 32.6, and the lowest in Croydon, viz, 9.9 a thousand.

**London.**—Two thousand and twenty-three deaths were registered during the week, including smallpox, 1; measles, 29; scarlet fever, 18; diphtheria, 41; whooping cough, 39; enteric fever, 2, and diarrhea and dysentery, 459. The deaths from all causes correspond to an annual rate of 23.6 a thousand. In greater London, 2,636 deaths were registered, corresponding to an annual rate of 21.8 a thousand of the population. In the "outer ring" the deaths included 15 from diphtheria, 10 from measles, 2 from scarlet fever, and 14 from whooping cough.

**Sunderland.**—Two weeks ended July 31, 1897. Estimated population, 142,107. Total deaths, 97, including enteric fever, 1; measles, 3, and whooping cough, 2.

**Ireland.**—The average annual death rate represented by the deaths registered during the week ended July 31 in the 23 principal town districts of Ireland was 23.2 a thousand of the population. The lowest rate was recorded in Tralee, viz, 5.6, and the highest in Sligo, viz, 66.0 a thousand. In Dublin and suburbs 153 deaths were registered, including scarlet fever, 1; whooping cough, 1; diphtheria, 3, and enteric fever, 1.

**Scotland.**—The deaths registered in 8 principal towns during the week ended July 31 correspond to an annual rate of 18.2 a thousand of the population, which is estimated at 1,549,907. The lowest mortality was recorded in Aberdeen, viz, 13.5, and the highest in Leith, viz, 21.4 a thousand. The aggregate number of deaths registered from all causes was 542, including measles, 5; scarlet fever, 5; diphtheria, 3, and whooping cough, 22.



INDIA—*Singapore*.—Month of June, 1897. Estimated population, 56,000. Total deaths, 843, including cholera, 1; phthisis pulmonalis, 120; smallpox, 7, and beriberi, 118.

RUSSIA—*Riga*.—Month of May, 1897. Estimated population, 282,000. Total deaths, 527, including phthisis pulmonalis, 59; enteric fever, 8; scarlet fever, 15; diphtheria, 5; croup, 1, and whooping cough, 3.

SPAIN—*Barcelona*.—Month of May, 1897. Estimated population, 440,000. Total deaths, 646, including smallpox, 16; diphtheria, 37; enteric fever, 19; phthisis pulmonalis, 88, and measles, 16.

SWITZERLAND—*Lucerne*.—Month of June, 1897. Estimated population, 23,500. Total deaths, 29. No deaths from contagious diseases.

UNITED STATES OF COLOMBIA—*Panama*.—Two weeks ended August 3, 1897. Estimated population, 15,000. Total number of deaths not reported. Thirteen cases of yellow fever and 5 deaths therefrom.

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.
Aix la Chapelle.....	July 24.....	112,980	77							1		1
Amapala.....	July 3.....	1,500	1					1				
Do.....	July 10.....	1,500	0									
Do.....	July 17.....	1,500	1					1				
Amherstburg.....	Aug. 7.....	2,300	1									
Amsterdam.....	July 31.....	497,443	148							2		2
Belfast.....	do.....	281,431	139					3		1		1
Belize.....	Aug. 5.....	13,000	6									
Bergen.....	July 21.....	57,800	25									1
Birmingham.....	July 31.....	505,772	253						1	1	10	
Bluefields.....	do.....	3,000	2									
Bombay.....	July 6.....	821,764	*550	15		4		1				
Do.....	July 13.....	821,764	†577	35		2		1			6	
Bradford.....	July 31.....	221,610	70								2	
Bremen.....	July 17.....	142,500	42									
Brussels.....	July 24.....	531,011	186					3		1		2
Budapest.....	July 30.....	640,000							1		1	1
Ca.cuta.....	June 26.....	681,560	442	57		3					3	
Do.....	July 3.....	681,560	440	39						1	3	1
Callao.....	July 11.....	20,000	26									
Do.....	July 18.....	20,000	21									
Do.....	July 25.....	20,000	17									
Cardenas.....	Aug. 7.....	23,517	35		2	2	1	8		2		
Catania.....	July 27.....	120,000	67						1			
Cienfuegos.....	Aug. 1.....	24,030	70		16		1					
Do.....	Aug. 8.....	24,030	50		6		1					
Coaticook.....	Aug. 7.....	2,500	0									
Cologne.....	July 24.....	335,473	220									5
Colombo.....	June 26.....	127,836	104				3					
Do.....	July 3.....	127,836	91					2				
Copenhagen.....	July 24.....	333,714	107									3
Dresden.....	do.....	371,700	167				2			5		2
Dublin.....	July 31.....	350,000	153				1			1		1
Dundee.....	do.....	163,090	65					1				
Dusseldorf.....	July 24.....	175,861	136									
Edinburgh.....	do.....	292,364	116				1	1	1	2		7
Do.....	July 31.....	292,364	101					4				1
Flushing.....	do.....	17,193	3									
Girgenti.....	July 24.....	24,428	8									
Glasgow.....	July 31.....	714,919	256					1		2	1	14
Gothenburg.....	July 24.....	115,896	23									1
Halifax.....	Aug. 7.....	38,700	24									
Hamburg.....	July 31.....	641,780	236						1	4		1
Hamilton.....	July 27.....	2,000	0									
Do.....	Aug. 3.....	2,000	2									
Havre.....	July 24.....	119,470	85									
Honolulu.....	July 17.....	30,000	14							1		
Do.....	July 24.....	30,000	15									
Kingston, Canada.....	Aug. 13.....	18,040	7					3				
Konigsberg.....	July 31.....	171,700										
Leeds.....	do.....	402,449	155					1			1	
Leghorn.....	do.....	108,755	43									
Leith.....	July 24.....	75,186	37					1			7	2
Do.....	July 31.....	75,186	31								4	4
Licata.....	July 24.....	20,000	14					6				
Liege.....	July 31.....	166,110	55					2		2	7	3
Liverpool.....	do.....	644,129	396			2	2		6	2		
Livingston.....	do.....	2,000	1									
London, Canada.....	Aug. 7.....	34,855	3									
London, England.....	July 24.....	6,291,677	2,134					12	22	63	31	49
Do.....	July 31.....	6,291,677	2,636					3	20	56	39	53
Lyons.....	July 24.....	466,028	152					1		1	1	
Madras.....	July 9.....	452,518	270			4					4	
Madrid.....	July 26.....	482,816	246			2		10	1	6	15	
Magdeburg.....	July 17.....	218,266	138									
Manchester.....	July 31.....	536,426	257					2	1	1	34	7
Mannheim.....	do.....	101,000	66								2	
Matamoras.....	Aug. 6.....	12,000	6									
Matanzas.....	July 28.....	62,000	84		6			6		1	1	
Do.....	Aug. 4.....	62,000	80		4			2				
Messina.....	July 24.....	107,000	23					2				
Do.....	July 31.....	107,000	23									

\*Seven deaths from plague.

†Four 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.	Whooping cough.	
Montevideo.....	July 10....	215,061	61					2		1			
Moscow.....	July 17....	989,000	592						8	9	11		2
Munich.....	July 24....	418,000	211					1		3	1		
Nagasaki.....	July 20....	71,730				2					1		
Newcastle on Tyne.....	July 31....	212,223	66					1			1		
Nuremberg.....	July 10....	176,644	76						2				
Do.....	July 17....	176,644	88								1	1	
Odessa.....	July 24....	404,000	200			1		4	4	1	1		
Palermo.....	do.....	273,000	112							2			
Paris.....	July 31....	2,511,855	866					3		4	12		5
Prague.....	July 24....	193,097	135					4	5	3	2		3
Puerto Cortez.....	Aug. 4....	2,000	0										
Queenstown.....	July 17....	14,000	1										
Do.....	July 24....	14,000	2										
Do.....	July 31....	14,000	7										
Rheims.....	July 24....	108,943	79										
Rome.....	May 22....	482,921	146									2	
Do.....	May 29....	482,921	135									3	
Do.....	June 19....	482,921	157						2			3	
Do.....	June 26....	482,921	157									6	
Rotterdam.....	July 31....	292,551	103					2					
Sagua la Grande.....	do.....	17,536	49		4	7							
Do.....	Aug. 7....	17,536	50		4	3							
St. John, Antigua.....	June 5....	36,119	13										
Do.....	June 12....	36,119	7										
St. Petersburg.....	July 24....	1,267,023	583			2	1	23	5	31	26		3
St. Stephen.....	Aug. 7....	3,000	0										
St. Thomas.....	July 2....	12,019	6										
Do.....	July 9....	12,019	16										
Do.....	July 16....	12,019	17										
San Juan del Norte.....	July 24....	1,156	2										
Schiedam.....	July 31....	26,627	10										
Sheffield.....	do.....	354,570	216						1		8		4
Sonneberg.....	July 10....	12,150	10										
South Shields.....	July 24....	95,798	26										1
Do.....	July 31....	95,798	27						11	1			
Stettin.....	July 24....	150,000	146					1	1	1	1	2	
Stockholm.....	do.....	274,611	67						1	1	1		
Stuttgart.....	July 29....	158,378	3							2			
Tegucigalpa.....	July 24....	14,000	3										
Trapani.....	do.....	45,095	12										
Trieste.....	do.....	158,314	80								1		
Tuxpan.....	do.....	10,280	11										
Warsaw.....	do.....	601,408	279						1	2	3		
Winnipeg.....	Aug. 7....	38,691	26			5							
Yokohama.....	July 1....	170,232				1					1		
Zurich.....	July 24....	156,750	43										

By authority of the Secretary of the Treasury :

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