# Public Health Reports

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

VOL. XIV. WASHINGTON, D. C., FEBRUARY 17, 1899. No. 7.

## UNITED STATES.

Quarantine officer at Havana, Cuba.

In accordance with Executive order of January 17, 1899, Sanitary Inspector W. F. Brunner, United States Marine-Hospital Service, was detailed by the Secretary of the Treasury, February 1, 1899, as quarantine officer of the port of Havana.

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

Smallpox in the United States.

## COLORADO.

DENVER, COLO., February 4, 1899.

SIR: The following statement is issued in order that the medical profession may be accurately informed as to the present status of the smallpox outbreaks in Denver.

Denver has been free from smallpox since 1890, with the exception of imported cases at long intervals, as follows: 1891, 1 case from Trinidad; 1892, 1 case from New Mexico; 1893, 4 cases from Seattle; 1895, 1 case en route from Mexico.

## PRESENT PREVALENCE OF THE DISEASE IN DENVER.

On November 15, 1898, a sheep herder from New Mexico, suffering from the disease, passed through the city, going to Fort Collins, where it is reported he died. Ten days after he passed through Denver, 2 railway employees with whom he had come in contact developed smallpox; a week later the child of one of these men and a sister of the other were taken down. All were removed to hospital; all recovered and were discharged by January 15, 1899. No further manifestations have been discovered due to this infection and we regard it as ended.

A negro from Pueblo, of whom the officers had a description but whom they were unable to discover, came to Denver about Christmas time. Persons who had come in contact with him began to be sick the first week in January. A succession of 12 cases among the negroes have occurred as a result of this infection, all being removed to the hospital and all are there under treatment at this date. The cases range trom the lightest varioloid to the severest confluent and hemorrhagic types. This outbreak is still under way and will probably contribute new cases from time to time.

On December 24, a business man of this city returned from a trip through southern Texas, where he had been exposed to smallpox. On January 7, he was reported to the office by his physician as having smallpox. From this case two other cases arose, one being the child and the other the partner of the gentleman originally affected.

About January 18, a prisoner in the county jail began to complain of illness; he had been an inmate of the jail for two months and was not known to have been in any way exposed to smallpox; after several days, however, a typical eruption developed and he was removed to the hospital. On January 27, a man just discharged from the jail was found to have the disease; he had been a prisoner for three months and in the same corridor with the preceding case.

The total number of cases occurring from these four sources of infection has been 21; at this time every known case of the disease is isolated at the Sand Creek Quarantine Hospital. One death has thus far occurred, and it is probable that several of the colored persons affected will die, as the disease is confluent with some of them.

## PRECAUTIONS TAKEN.

In each instance of infection all persons whose exposure has been great have been removed to hospital for supervision or observation or else the occupants of the infected premises have been kept under surveillance for two full weeks. Vaccination has been done for all persons in infected districts. General vaccination has been urged upon the whole city and a very large number of persons have been vaccinated. In the health office alone over 8,000 vaccinations have been done.

The wholesale drug firms report the sale of over 15,000 tubes of lymph to physicians in the city. It is assumed that nearly 24,000 persons have been vaccinated since January 1.

Infected goods in the houses where the cases occurred have been burned in every instance. The houses have always been disinfected twice and in some instances three times, using either sulphur or formaldehyd, as the circumstances seemed to justify.

The advisory board of health met on the evening of February 1, and, after a careful consideration of all the circumstances connected with the various phases of the outbreaks, decided that it was necessary to call the attention of every physician in the whole city to a plain statement of all the facts.

It was further decided that since the diagnosis of smallpox in its earlier stages presents difficulties that for a time may mislead even the most experienced and conscientious practitioner, all physicians be urged to comply with the strict letter of the law in reporting to the health office for examination and consultation all cases where the slightest possibility of a contagious eruptive disease may exist. The public welfare, as well as the personal reputation of each physician, is at stake, and the responsibility of decision should be early placed upon the health officer, whose duty under the circumstances is clearly defined by law.

The health commissioner trusts that the measures already taken will, with the cooperation of the members of the medical profession, be effectual in stopping the spread of this disease, although the city is in constant danger of fresh importations of infection so long as other communities in the State continue to suffer from it.

Table revised to February 8, 1899. November 25 to February 8, 23 cases, 1 death.

Very respectfully,

WM. P. MUNN, Health Commissioner.

## DISTRICT OF COLUMBIA.

WASHINGTON, D. C., February 7, 1899.

SIR: I have the honor to report that 4 new cases of smallpox were discovered in this District on the 5th instant, and that 2 more were discovered to-day. The total number of cases up to and including the present time is 10, but they have all occurred in but 5 houses. With a single exception they are now in the smallpox hospital. The prevailing type of disease is exceedingly mild, rendering diagnosis difficult.

Respectfully, yours,

WM. C. WOODWARD, M. D.,

Health Officer.

## GEORGIA.

Circular for obtaining information concerning smallpox.

STATE OF GEORGIA, ADJUTANT GENERAL'S OFFICE,

## Atlanta, Ga., February 10, 1899.

SIR: The inclosed circular has been issued by the Governor of Georgia for the purpose of obtaining accurate information relative to smallpox in this State.

Respectfully, yours,

C. P. WERTENBAKER, Passed Assistant Surgeon, U. S. M. H. S.

[Inclosure.]

STATE OF GEORGIA, EXECUTIVE OFFICE, Atlanta, Ga., February 9, 1899.

To the ordinaries, county commissioners, and local health authorities:

In view of the prevalence of smallpox in a number of counties in the State, it is desired, in order to suppress the disease and prevent its spread, to have accurate infor-mation as to the condition in each county and city in the State. You are requested to furnish the following information at the earliest possible moment, and thereafter make a weekly report as to the condition in your county or city.

Does smallpox exist in your county or city?
 If so, how long has it existed?
 How many cases have there been, and how many now?

(4) Give the localities, with numbers of cases in each?
(5) Is the disease chiefly among the whites or blacks?
(6) What is being done to suppress it? State in detail the methods that are being used.

(7) Is the disease spreading?

(8) Does chicken pox or any other contagious or infectious disease exist? If so, give localities, number of cases, and other details.

Address your communications to Dr. C. P. WERTENBAKER, Passed Assistant Surgeon, U. S. M. H. S., Special Aide, Adjutant-General's Office, Atlanta, Ga.

In case of doubt as to the nature of any eruptive disease, you are requested to isolate the case until the diagnosis can be determined If desired, an expert in the diagnosis of smallpox will be sent to render you such aid as may be necessary.

Very truly, yours.

A. D. CANDLER, Governor.

#### INDIANA.

## EVANSVILLE, IND., February 8, 1899.

SIR: Referring to my telegram last night regarding the case of smallpox, I have the honor to report as follows: Upon my return from the city yesterday afternoon, the interne, Dr. Fred C. McIsaac, informed me he had a case of smallpox in the office. I at once went in, and after a careful examination of the patient I came to the same conclusion. The city health officer was at once notified, and owing to the proximity of the 2 orphan asylums, he agreed to remove the patient to the pesthouse at once. The patient was kept in the office till this morning, when not having seen or heard anything from the city officials he was removed to the deadhouse. The P. M. table, scales, etc., were removed, a fire made, and patient put to bed, and preparations were made to care for him there. It was too cold and windy to put up the tent. At about 10 o'clock a.m. the pesthouse wagon came for him. The office and deadhouse are now open to the freezing temperature, and will be fumigated later. The vaccine virus arrived yesterday, and patients and attendants are being vaccinated.

Respectfully, yours,

,

J. H. OAKLEY, Passed Assistant Surgeon, U. S. M. H. S.

## INDIANAPOLIS, IND., February 8, 1899.

SIR: In compliance with the resolutions adopted at the conference of State and provincial boards of health, held at Toronto, October 6, 1896. it becomes my duty to inform you that 1 additional case of smallpox has been reported in Indianapolis, 1 case Dana, 1 case Evansville. Origin of the disease is: Dana case, Arkansas; Evansville case, colored man, off of steamer.

Respectfully, yours,

J. N. HURTY, M. D., Secretary, Indiana State Board of Health.

#### KENTUCKY.

## LOUISVILLE, KY., February 8, 1899.

SIR: In relation to the prevalent outbreak of smallpox in this city, I have the honor to report that a total of 74 cases have been sent to the municipal eruptive hospital, with 47 cases still under treatment at that place, no deaths having occurred to date.

Respectfully, yours, Assistant Surgeon, U. S. M. H. S., In Temporary Charge.

#### MAINE.

## AUGUSTA, ME., February 6, 1899.

STR: In accordance with the agreement entered into at the conference of State and provincial boards of health at Toronto, October 6, 1886, respecting the interstate notification of the occurrence of cholera, smallpox, and yellow fever, it becomes my duty to inform you of the existence of 8 or more cases of smallpox at Waterville and Winslow, in the county of Kennebec, in this State. The origin of the disease is mixed up with chicken pox. Isolation, vaccination, and disinfection with steam and formaldehyd now under way.

Yours, truly,

Secretary, State Board of Health of Maine.

## AUGUSTA, ME., February 11, 1899.

A. G. YOUNG.

SIR: One case of smallpox has appeared in Auburn, Androscoggin County, Me., since my first notification to you.

The outbreak in the city of Waterville and the town of Winslow, on the other side of the river, has proved to be a serious one. It is believed now, however, that the outbreak can be held well in hand. Every infected house has a guard over it day and night. Vaccination has been carried on very rapidly, and disinfection is under way.

Yours, truly,

A. G. YOUNG, Secretary, State Board of Health of Maine.

#### MARYLAND.

#### BALTIMORE, MD., February 10, 1899.

SIR: I have the honor to report that the city health officer of Baltimore has reported 1 case of smallpox in this city on the 8th instant. This case was immediately sent to quarantine. The infection was supposed to have occurred in Norfolk, Va. Secretary of State board of health reports 1 case at Cumberland, Md., a total of 6 cases occurring in this State since December 8, 1898. Hestates that the only house believed to be infected at present is the quarantine hospital in this city. The State board will take active measures to prevent infection from Norfolk and other infected localities. \* \* \*

Very respectfully, yours, SHERBARD R. TABB, Assistant Surgeon, U. S. M. H. S., In Temporary Charge.

#### TENNESSEE.

February 14. The secretary of the State board of health reports 7 cases of smallpox at Jackson and 2 at Memphis.

## TEXAS.

## LAREDO, TEX., January 29, 1899.

SIR: I inspect all incoming passenger trains from Mexico, as stated in former reports. I vaccinate all Mexican or foreign immigrants, and I include as such all second and third class passengers.

Smallpox at Laredo has as yet not been stamped out, although vigorous methods are now being taken by both city and county authorities. State Health Officer Blunt visited the city last week and inspected the situation. He did not consider quarantine of the county or city necessary, owing to the methods pursued to quarantine all infected houses and ranches. Owing to the prevalence of smallpox in other parts of the State, new foci are occasionally introduced.

There have been 2,550 persons vaccinated within the city limits since October 1, 1898, at the expense of the city and county. The county is also having all the ranch people vaccinated, but I can not obtain the number vaccinated outside the city at present. The figures I give are Respectfully, yours,

not the full number vaccinated during the period named, as a great number, of course, are vaccinated at their own expense.

I notice by the Boletin del Consejo Sup. de Salubridad, December 21, 1898, of Mexico, that the epidemic of yellow fever at Tampico, Mexico, of 1898, was not introduced there. No ships had entered that port from infected points, and the quarantine was too strict to allow any cases to enter the city. The disease broke out among persons who resided in the center of the city and who had recently come from central table lands to Tampico. The conclusion of the Mexican experts was that the germs of yellow fever are always lying dormant in all Mexican ports, and that the combination of the necessary conditions with an appropriate soil may induce an epidemic at any time.

In my opinion we shall have yellow fever this summer at Monterey, Mexico, and very likely at Tampico, although I have not been to Tampico, but I know the conditions at Monterey.

I inclose report of cases of smallpox and deaths from same at Laredo, Tex., for week ended January 28, 1899, namely, 43 cases, 9 deaths.

H. J. HAMILTON,

## Acting Assistant Surgeon, U. S. M. H. S.

## LABEDO, TEX., February 5, 1899.

SIR: I inspect all passenger trains from Mexico, and vaccinate all of the second and third class passengers where necessary. I average from 3 to 8 vaccinations daily on trains, mostly children. I obtain my vaccine from the city of Laredo, Tex., free of cost on account of protection afforded city by my vaccinating all incoming persons. The city obtains fresh bovine virus on ivory points twice weekly.

On January 31, 1899, I found a family of 1 woman with 5 children, 1 of which had smallpox. The family had already been passed upon by the United States immigrant inspector. The mother had had smallpox. and 1 child, the oldest, had been vaccinated. I advised the mother to have others vaccinated at once, and she consenting, I vaccinated 3, the other was just breaking out. I was informed it had had fever for the three days previous. The family was going to Laredo, Tex. I had the family put off on the Mexican side of the boundary. On February 2, 1899, I was informed that they had come to this side, and also that others had crossed the footbridge and were in quarantine on the Laredo, Tex., side. I thereupon telegraphed you for authority to place night and day inspectors on the footbridge, which authority I received from you by telegram February 3, 1899, in evening. I hunted up, I think, 2 capable and intelligent men, and had Mr. Giles, the United States immigrant inspector, give them instructions about immigrants, and I instructed them in regard to diseases. They are both familiar with smallpox, one having had the disease himself. I also instructed them in vaccinating and told them to see that no one came over that was not vaccinated or had had smallpox previously, and also as to quarantinable diseases. Thirty persons were vaccinated on the footbridge on February 4, 1899.

I require a certificate of recent vaccination from a known physician, or person has to show vaccination, or be vaccinated at the bridge. \* \* \*

There have been now 2,850 persons vaccinated or revaccinated since October 1, 1898, at the expense of city and county within the city of Laredo, but notwithstanding, the disease has not abated. A great many of the lower class of Mexicans, in fact the majority, believe they have to have smallpox sometime, and that they had better have it young, and only three days ago, while with the county physician, we went to inspect a child that had been hidden and died of smallpox, and found there a mother with 2 young children, who had been living in Nuevo Laredo, Mexico, but had crossed over with her children to see her sister-in-law's child with the smallpox. She said her children might as well get the disease while they were young, and be through with it. She and the children were placed in quarantine. She also stated that she would rather have her children get smallpox, even if they died, than have them vaccinated. It is this class of people I wish to have vaccinated at the footbridge, or not permitted to enter the United States, as after they are once over it is almost impossible to keep track of them.

My telegram to you was sent after I had seen one from State health officer, Dr. Blunt, in answer to one from the county health officer requesting that an inspector be placed at the foot bridge to protect us from Mexican smallpox and unvaccinated, ignorant people, so that we could better break up the pest we now have. The State health officer telegraphed that there were no funds he could use for that purpose at present. I believe that the number of new cases will not be so many from now on, because, notwithstanding the number that have been exposed, the effect of the thorough vaccination ought to show from this week on, so I hope to be able to make a more favorable report next week, especially as we vaccinate all persons from Mexico at present. For the week ended February 4 there were 69 cases and 14 deaths from smallpox.

Yours, respectfully,

H. J. HAMILTON, Acting Assistant Surgeon, U. S. M. H. S.

## VIRGINIA.

Alexandria.—Sanitary Inspector Snowden reports as follows: February 7, 19 cases, 3 suspects; February 8, 11 cases, 3 suspects; February 9, 6 cases, 2 suspects; February 10, 5 cases, 3 suspects; February 11, 10 cases, 5 suspects; February 12, 3 cases, 3 suspects; February 13, 3 cases, 3 suspects; February 14, 2 cases, 2 suspects.

Hampton.—February 15, 6 cases.

Norfolk.—Passed Assistant Smith reports as follows: February 8, 9 cases, 7 from city, 2 from outside city—discharged, 12; total on hand, 139. February 9, 6 cases—discharged, 13; total on hand, 132. February 10, 6 cases—discharged, 14; February 11, 5 cases—discharged, 1; February 12, 4 cases—died, 1.

#### WISCONSIN.

## MILWAUKEE, WIS., February 7, 1899.

SIR: In compliance with the agreement embodied in resolutions adopted by the conference of State and provincial boards of health respecting interstate notification of the occurrence of communicable diseases you are hereby informed that 2 cases of smallpox have been reported to this office as existing in Appleton, Outagamie County, in this State, probably taken from imported rags used in paper mill. Isolation, vaccination, and disinfection. Amount of exposure unknown. Should any further facts of importance to you in connection with these cases become known to this office you will be promptly informed concerning them.

Respectfully, yours, U. O. B. WINGATE, M. D., Secretary State Board of Health of Wisconsin.

## Medical inspection on railroad and steamship lines leaving Norfolk, Va.

## NORFOLK, VA., February 11, 1899.

SIR: I have the honor to report that the following-named transportation lines have now instituted a medical inspection, or observation, of their passengers leaving this city for the points noted after each: Chesapeake and Ohio Railroad, to all points; Old Dominion Steamship Company, to New York; Bay Line Steamboats, to Baltimore; Chesapeake Line, to Baltimore.

The Norfolk and Washington line has maintained inspections the past two weeks, as before reported, and continues them.

The work of vaccinating the crews of vessels at this port is progressing in a satisfactory manner, and nearly all the passenger boats and ferries belonging to regular lines have been attended to, the managers of the lines having given all necessary assistance to make the work complete.

Respectfully, yours,

## A. C. SMITH, Passed 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 31, 1898, to February 17, 1899.

labama:       Dec. 10-Jan. 20         Calvert       Jan. 6.         Clarke County.       Dec. 25-Jan. 20         Clay County.       Jan. 7.         Collerine       Jan. 6.         Dallas County.       Jan. 7.         Collerine       Jan. 7.         Green County.       Jan. 7.         Hele County       do         Lowndes County.      do         Mobile       Jan. 27.         Randolph County       Jan. 6.         Washington County.       Jan. 6.         Washington County.       Jan. 7.         Wilcox County.       Jan. 7.         Jan. 6.       Jan. 7.         Wileox County.       Jan. 7.         Jan. 6.       Jan. 7.         Jan. 7.       Jan. 7.	) 1 		Smallpox reported. Several cases. Smallpox reported. Do. Do. Do.
Catherina     Jan. 6.       Clarke County.     Dec. 25-Jan. 20       Clay County.     Jan. 27.       Collerine     Jan. 6.       Dallas County.     Jan. 27.       Green County.     Jan. 27.       do     Jan. 27.       Male County.     Jan. 27.       Mobile     Jan. 27.       Southside.     Jan. 27.       Wilcox County     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.	) 1 		Smallpox reported. Several cases. Smallpox reported. Do. Do. Do.
Catherina     Jan. 6.       Clarke County.     Dec. 25-Jan. 20       Clay County.     Jan. 27.       Collerine     Jan. 6.       Dallas County.     Jan. 27.       Green County.     Jan. 27.       do     Jan. 27.       Male County.     Jan. 27.       Mobile     Jan. 27.       Southside.     Jan. 27.       Wilcox County     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.	) 1 	. 2	Several cases. Smallpox reported. Do. Do. Do.
Clarke County.     Dec. 25-Jan. 20       Clay County.     Jan. 27.       Collerine     Jan. 6.       Dallas County.     Jan. 27.       Green County	) 1  7	. 2	Several cases. Smallpox reported. Do. Do. Do.
Clay County.     Jan. 27       Collerine     Jan. 6       Dallas County.     Jan. 27       Green County.     Jan. 27       Hale County.     do       Lowndes County.     do       Mobile     Jan. 27.       Southside.     Jan. 27.       Washington County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Wilcox County.     Jan. 27.       Pulaşki County.     Jan. 27.	1 		Smallpox reported. Do. Do. Do.
Collerine     Jan. 6.       Dallas County.     Jan. 27.       Green County	1		Do. Do. Do.
Dallas County	7		Do. Do. Do.
Green County	 7		Do. Do.
Hale County	7		Do.
Lowndes Countydo Marengo Countydo Mobile Southside Washington Countydo Wicox Countydo Jan. 2-Jan. 27 Jan.	7		
Marengo County	7		
Mobile     Jan. 2-Jan. 27       Randolph County     Jan. 27       Southside     Jan. 6       Washington County     Jan. 27       Wilcox County     Jan. 6       Wilcox County     Jan. 27       Wilcox County     Jan. 27       Pulaski County     Jan. 27	7	• • • • • • • • • • • • • • • • • • • •	Do.
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Wilcox Countydododo rkansas : Pulaski County	96		Do.
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rkansas: Pulaski County Jan. 27		1	Do.
Pulaski County Jan. 27	·····	· ·····	20.
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San Francisco Jan. 31	2		
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Arapahoe County Dec. 1-Feb. 8.	23	1	
El Paso County Jan. 31	2		Í.
Fremont County Dec. 1-Jan. 31	24		1
Los Animas County Jan. 31			
Pueblo County		4	
nnecticut:		-	
	Z		1
istrict of Columbia:			
Washington Jan. 21-Feb. 1	5 16		
orida:			
Pensacola Jan. 14	1	·	
eorgia :			
Jones County Jan. 1-Jan. 16	300		
inois:			
Bethel Jan. 7	2		
Mediado			
diana :			
Dana			
Evansville Feb. 7			
Indianapolis Jan. 25-Feb. 11			
Sullivan County Feb. 11	1		
wa:			
Lee County Jan 13	7	1	
Wayne Countydo		-	
ansas:		1	
Marion County Jan. 17	11		
	11	••• ••••	
entucky:			
Louisville Dec. 20-Feb. 8.			
uisiana : New Orleans Jan. 30-Feb. 4.	•••		

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## Smallpox in the United States, etc.-Continued.

Places.	Date.	Cases.	Deaths.	Remarks.
Maryland :			-	
Baltimore				•
Cumberland	do	. 1		•
Michigan :	Jan. 1-Feb. 4	1 14		
Detroit Minnesota :	. Jan. 1-Feb. 4	. 14		•
Minneapolis	. Dec. 8	. 1		
Mississippi:				
Clay County				Smallpox reported.
Jones County	do			Do.
Lauderdale Čounty	• • • • • • • • • • • • • • • • • • •		• •••••••	Do.
Noxubee County		17		Do.
Perry County Tisbomingo County	do	1 11		Do.
Aissouri :	1		1	20.
St. Louis	. Nov. 1-Jan. 21	15	2	
Nebraska :				
Nebraska City		153		ł
Omeha	Dec. 9-Jan. 16	147	8	
Omaha Otoe and Nemaha Counties	Jan. 1-Feb. 4 Jan. 1-Jan. 16			
Peru				
Plattsmouth	Dec. 10	5 1		
Tecumseh	Jan. 2	9		
New Jersey:	1	-		
Jersey City	Dec. 5-Jan. 22	6		·
New York:	T # T0	-		
New York Dunkirk	Jan. 7-Feb. 11	3	1	
North Carolina :	Jan. 8–Jan. 21	5		
Edgecombe County	Feb. 1	24		
Gates County	do	1		
Northampton County	Jan. 12	ī		
Wilmington	Feb. 8	ī		
bio:				
Cincinnati Cleveland	Jan. 23-Feb. 11	50	1	
klahoma :	Dec. 25-Feb. 4	~ 27	•••••	
Chandler	Dec 80	1		
Doggett		i	•••••••••	
Parkland	do	1	•••••	
Sac and Fox Agency		2		
Stroud	do		8	
ennsylvania :				
Altoona	Jan. 1-Jan. 23	2 1	•••••	
Ball Hill Bedford	Dec. 61-Jan. 26			
Brumhangh	do l			
Charlesville	Dec. 31			Smallpox reported.
Claysourg	Dec. 31-Jan. 23			· · · · · · · · · · · · · · · · · · ·
East Vincent Township	Dec. 81			
Everett	do	8		
Homer City Hopewell	do		••••••	
Histontown	do			
New Granada	do			
Philadelphia	Dec 81-Jan 92	7 9		
New Granada Philadelphia Pittaburg	Dec. 31			
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Waterfall	do	ī		
orto Rico:				
Ponce	Jan. 17	46	••••••	
Jackson	Feb 14			
Memphis	1.co. 14do	2		
Xas:		4		
Brownsville	Jan. 7	1		
El Paso	Aug. 1-Dec. 31	45		Year 1898.
	Jan. 1-Jan. 18	21		
Laredo	Jan. 1-Feb. 4	112	41	
San Rafael	Jan 29	4	•••••	
rginia :	Ton 4 Rol 14		1	
Alexandria Hampton	Jan. 4-Feb. 14 Feb. 15	228		
	Dec. 31	6.4	••••••	
	Jan. 1-Feb. 12	316	1	
Portsmouth	Dec. 31-Feb. 4			
Richmond	Jan. 25			. •
isconsin:	n	_	1	
Outagamie County yoming :	Feb. 7	2.	•••••	
	Dec 94			
LOUGE ODIIIED	Dec. 24	1  .	•••••	

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Name of station.	Week ended.	Name of vessel.	Date of arrival.	Port of departure.
Alexandria, Va Beaufort, N. C.	do			
Brunswick, Ga Cape Charles, Va Cape Fear, N. C	do do do		•••••	
Delaware Breakwater Quaran- tine, Del. Eureka, Cal Grays Harbor, Wash				
Gulf Quarantine, Ship Island, Miss.	do			•••••••••••••••••••••••••••••••••••••••
Honolulu, Hawaiian Islands Newbern, N. C Port Townsend, Wash	Feb. 11		·····	•••••••••••••••••••••••••••••••••••••••
Reedy Island Quarantine, Del San Diego, Cal San Francisco Quarantine, Cal	do do			
San Juan, Porto Rico South Atlantic Quarantine, Blackbeard Island, Ga.	do			
Tortugas Quarantine, Key West, Fla. Washington, N. C				
wasnington, N. C	ao		•••••	•

## REPORTS FROM NATIONAL QUARANTINE

## REPORTS FROM STATE AND

Name of station.	Week ended.	Name of vessel.	Date of arrival	Port of departure
Anclote, Fla Baltimore, Md Boston, Mass Carrabelle, Fla	do	•		••••••
Charlotte Harbor, Fla.	do			•••••
Elizabeth River, Va Galveston, Tex	Feb. 4			
Gardiner, Oreg	Feb. 4 Feb. 10		•••••	
Key West, Monroe County, Fla. Los Angeles, Cal Mobile, Ala	Feb. 11		•••••	
New Bedford, Mass Newport News, Va Newport, B. I	Feb. 10			
Pass Cavallo, Tex Providence, B. I	do	•••••		•••••••
Round Island, Miss Savannah, Ga	······uo			Bahia
		Nor. bk. Paragon (a) Aust. bk. Blandina P Nor. bk. Mirzapore	Feb. 1	do Rio Rio via Barbados.
Tampa Bay, Fla	Feb. 10			

a Previously reported.

1

Destination.	Treatment of vessel, pas- sengers, and cargo.	Date of depar- ture.	Remarks.	Vessels inspected and passed.
			do	
••••••		••••••		1
			do	7
•••••••••••••••••••••••••••••••••••••••				5
		•••••	No report	1
			No transactions	
•••••••••	••••••	••••••	No report	••••••

## AND INSPECTION STATIONS.

## MUNICIPAL QUARANTINE STATIONS.

Destination.	Treatment of vessel, pas- sengers, and cargo.	Date of depar- ture.	Remarks.	Vessels inspected and passed.
			No report	
			do	
			do	
•••••••••			do	
•••••••	·····			
••••••••	••••••			
••••••••	••••••	• • • • • • • • • • • • • • • • • • • •		
•••••••••	•••••••••••••••••••••••••••••••••••••••	•••••	No non ort	
			do	•••••
			do	
			No transactions	
•••••••		••••••	No report.	
Savannah	Ballast discharged; vessel disinfected.			19
do	do	Feb. 1		·····
do	Ballast discharged			
do	do	•••••	2 deaths from beriberi at sea.	•••••••••••••••
			No report	

## Reports of States and yearly and monthly reports of cities of the United States.

CONNECTICUT — Hartford.—Month of January, 1899. Estimated population, 75,000. Total number of deaths, 159, including diphtheria, 3; enteric fever, 1; la grippe, 21; measles, 2; whooping cough, 1, and 12 from phthisis pulmonalis.

GEORGIA—Columbus.—Month of December, 1898. Estimated population, 19,303; white, 10,276; colored, 9,027. Total number of deaths, 37; white, 13; colored, 24, including la grippe, 1, and 6 from phthisis pulmonalis.

Month of January, 1899. Total number of deaths, 29; white, 12; colored, 17, including la grippe, 2, and 2 from phthisis pulmonalis.

ILLINOIS—Springfield.—Month of January, 1899. Estimated population, 35,000. Total number of deaths, 78, including la grippe, 7, and 9 from phthisis pulmonalis.

INDIANA—*Evansville.*—Month of January, 1899. Estimated population. 70,000. Total number of deaths, 95, including diphtheria, 1; enteric fever, 2; la grippe, 8, and 8 from phthisis pulmonalis.

MISSOURI-St. Louis.-Month of December, 1898. Estimated population, 623,000; white, 587,000; colored, 36,000. Total number of deaths, 841; white, 747: colored, 94, including diphtheria, 31; enteric fever, 12; scarlet fever, 3; whooping cough, 2, and 96 from phthisis pulmonalis.

NEW HAMPSHIRE—Concord.—Month of January, 1899. Estimated population, 18,000. Total number of deaths, 45, including diphtheria, 2; la grippe, 6, and 1 from phthisis pulmonalis.

NEW YORK—*Yonkers.*—Month of January, 1899. Estimated population, 43,000. Total number of deaths, 70, including la grippe, 3, and 9 from phthisis pulmonalis.

PENNSYLVANIA — Conshohocken. — Year ended December 31, 1898. Estimated population, 5,470. Total number of deaths, 83, including diphtheria, 3; enteric fever, 2, and 3 from phthisis pulmonalis.

Meadville.—Year ended December 31, 1898. Estimated population, 12,000. Total number of deaths, 93, including diphtheria, 1; enteric fever, 2; measles, 1, and 9 from phthisis pulmonalis.

Mechanicsburg.—Year ended December, 1898. Estimated population, 4.500. Total number of deaths, 68, including diphtheria, 2, and 9 from phthisis pulmonalis.

*Phænixville.*—Year ended December 31, 1898. Estimated populalation, 8,514. Total number of deaths, 157, including diphtheria, 4, enteric fever, 3, and 10 from phthisis pulmonalis.

Williamsport.—Month of January, 1899. Estimated population, 35,000. Total number of deaths, 24, including 1 from phthisis pulmonalis.

UTAH—Salt Lake Oity.—Month of December, 1898. Estimated population, 70,000. Total number of deaths, 50, including enteric fever, 3; scarlet fever, 1, and 5 from phthisis pulmonalis.

VIRGINIA—Petersburg.—Four weeks ended January 26, 1899. Estimated population, 25,000; white, 12,000; colored, 13,000. Total number of deaths, 52; white, 17; colored, 35, including la grippe, 1, and 7 from phthisis pulmonalis.

		ni ⊾iei	from				:	Deat	ths f	rom	-			
Cities.	Week ended.	Population, U. Census of 1890	Total deaths from all causes.	Phthisis pul- anonalis.	Yellow fever.	Smallpox.	Varioloid.	Cholera.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	W h oop in g
Allegheny, Pa	Jan. 28	105,287	53	7	1					. 2				
Altoona, Pa		30, 337	15	2			1							• • • • • • • •
Do		30, 337	12	1 ī										• •••••
Do	Feb. 11	30, 337	14	ĩ						1				
Ann Arbor, Mich	Jan. 4	9,431	4											
Aurora, Ill	do	19,688	10											
Brockton, Mass	Feb. 4	27, 294	8	2						1 -				
Charleston, S. C	do	a 54, 955	b 23											
Chicago, Ill	Feb. 11	1,099,850	541	32							13	15	3	
Cleveland, Ohio	Feb. 4	261, 353	126	4								2		
Denver, Colo		106,713	55	10										
Dubois, Pa		6,149	2											
Dunmore, Pa	Jan. 28	8, 315	3											
Do		8, 315	9											
Elmira, N. Y		27,708	12											
Everett, Mass		11,068	7											
Fitchburg, Mass	do	22,037		4										1
Holyoke, Mass		35, 637	11	····								1		
Jacksonville, Fla	Feb. 4	17, 201	19										2	
Jersey City, N. J	Feb. 5	163,003	52								1	3		
Kalamazoo, Mich	Feb. 4	17,853	16											
Lowell, Mass		77, 696	36	5	•••••		·····		•••••	···· <u>·</u> ·	•••••			·····
Lynchburg, Va		19,709	8				•••••						•••••	
Massillon, Ohio		10,092	3	•••••			•••••						•••••	
Medford, Mass Melrose, Mass	Feb. 11	11,079	4 5	•••••	•••••		•••••	•••••	•••••	•••••	•••••	•••••		
Nashville, Tenn	Feb. 4	8,519					•••••						•••••	
New Bedford, Mass	reb. 11	76, 168	41 27				•• •••				•••••		•••••	•••••
Newburyport, Mass	Tan 98	40, 733 13, 947	5									1		•••••
Do		13, 947	7		•••••	•••••		•••••	•••••	•••••		•••••		•••••
New Orleans, La.	do	242,039	· ·										••••	
	do	19,791	7		•••••	•••••		•••••	•••••	4			•••••	1
Do		19,791	7		•••••	•••••		•••••	•••••	•••••	•••••			•••••
	Feb. 4	140, 452	27					•••••	•••••				•••••	•••••
	Feb. 5	22,680	15	2	•••••					•••••			•••••	•••••
Philadelphia, Pa	Feb. 4	1, 046, 964	512	48	•••••	•••••	•••••	•••••		38				1
Pittsburg, Pa		238, 617	133	13						6				4
	Feb. 11	132, 146	65	4								î		i
	Feb. 4	44, 843	10	3										-
an Diego, Cal	do	16, 159	3											
an Jose, Cal	do	18,060	5	1										
anta Barbara, Cal	do	5,864	0											
Bault Ste. Marie, Mich	do	5, 760	4										•••••	
pokane, Wash	do	19,922	9									1	•••••	
pringfield, Ill	Feb. 6	24,963										1	····· <sup>1</sup>	•••••
teelton, Pa	do	9, 250	5				·····						•••••	
Washington, D. C	do	230, 392	110				•••••			1	1	5	1	
Wheeling, W. Va		35,013	15				·····				•••••		•••••	
	Feb. 11	61, 431	29				•••••					1	•••••	•••••
	Feb. 4	18, 208	9	1	1			1						
Vinona, Minn Onkers, N. Y	Feb. 10	32,033	16	2		•••••						1	•••••	1

## MORTALITY TABLE, CITIES OF THE UNITED STATES.

a Estimated population, 65,165; white, 28,870; colored, **26,295**. b White, 7; colored, 16. La grippe, 1.

## $\mathbf{224}$

## Table of temperature and rainfall, week ended February 11, 1899.

## [Received from Department of Agriculture, Weather Bureau.]

Locality.	Temp	erature in Fahrenhe	degrees	Rainfa	ll in inche dredthe	s and hun-
Locanty.	Normal.	aExcess.	aDefic'ncy.	Normal.	Excess.	Deficiency
Atlantic Coast:						
Eastnort, Me	19		7	.91		8
	22		6	. 85		4
Northfold Vt	13		8	. 57		
HOSTON WISSIA	25		3	.91		.  .1
Vinevard Haven, Mass	33			. 82		
Nontuckot Magg	31			.76	.54	
	28		5	. 91		8
Block Island, R. I	29			1.04		8
New Haven, Conn	26			1.01		2
Woods Hole, Mass Block Island, R. I. New Haven, Conn Albany, N. Y New York, N. Y Howiohyme Pa	21		3	.70		1
New York, N. Y	29			. 98		2
	31		8	.71	.06	
Philadelphia, Pa New Brunswick, N. J Atlantic City, N. J	32		2	. 77	. 40	
New Brunswick, N. J	31			1.09		.4
Atlantic City, N. J	32			. 84		.0
Baltimore, Md	34		7	. 83	.35	
Baltimore, Md Washington, D. C Lynchburg, Va Cape Henry, Va Norfolk Va.	33		7	. 84	.37	
Lynchburg, Va	38	•••••	3	. 91	.85	
Cape Henry, Va	43		3	. 89	.64	
Norfolk, Va	41		1	. 91	.75	
Charlotte, N. C	44	1		1.16	2.45	
Råleigh, N. C	44		1	. 91	1.17	
Kittyhawk, N. C	44		••••••	. 99		
Norfolk, Va Charlotte, N. C Ráleigh, N. C Kittyhawk, N. C Hatteras, N. C Wilmington, N. C Columbia, S. C Charleston, S. C	46	2		1.19		.0
Wilmington, N. C	49	3		. 85		.3
Columbia, S. C	48	3		. 97	1.04	
	51	7		. 85		.0
	49	8		. 99	1.86	
Savannah, Ga Jacksonville, Fla	53	9		. 77		.0
Jacksonville, Fla	57	8		. 77		.1
JUDINEL. F 18	67	4		.71	· · · · · · · · · · · · · · · · · · ·	.3
Key West, Fla	71	3	•••••	. 42	•••••	.4
Atlanta, Ga Tampa, Fla	48	2		1.36	. 31	
Tampa, Fla	65	3		. 63		.1
Pensacola, F1a	56	4	•••••	.98	•••••	.0
Mobile Ale	53	8		1.12	•••••	. 9
Montgomery, Ala Vicksburg, Miss	51	4		1.32	1.69	
Vicksburg, Miss	51		7	1.12	. 26	
New Urleans, La	57	5		1.15	••••••	1.0
Shreveport, La	50		9	1.00	•••••	.8
Fort Smith, Ark Little Rock, Ark	40		14		•••••	. 4
Little Rock, Ark			17	1.27		.8
Falestine, Ica	52		14	. 91		.6
Galveston Tex	56		3	.77		.70
San Antonio, Tex Corpus Christi, Tex	54		10	.48 .70		. 40
Corpus Christi, Tex	60		11	.70		. 50
nio vallevano Tennessee :						
Memphis, Tenn Nashville, Tenn	43		17	1.31	1.19	
Nashville, Tenn	41		11	1.29		
	44		2	1.41	3.16	
Knoxville, Tenn Louisville, Ky Indianapolis, Ind Cincinnati, Ohio			2	1.33	2.32	
Louisville, Ky			13	1.04		. 39
Indianapolis, Ind			12			. 44
Cincinnati, Ohio	34		11	. 91	·····	. 02
	29		9	.90		. 47
Parkershiirg W Va	33		9	.77	.94	
Pittsburg, Pa	31		8	.72	. 28	
Oswego, N. Y	21		6	. 65	1.14	
Rochester, N. Y	21		7	.70		.46
Buffalo, N. Y	22		7	.76		. 58
Oswego, N. Y Rochester, N. Y Buffalo, N. Y Erie, Pa			10			.73
Cleveland, Unio	25		10			. 63
Sandusky, Ohio	26		10			. 49
Toledo, Ohio Detroit, Mich	25		10			. 41
Detroit, Mich			11			.41
Lansing, mich			15			. 41
Port Huron, Mich	20 .		9	. 55		. 48
Alpena, Mich	15		10	. 56		. 46
Sault Ste. Marie, Mich	9.		11	. 35		. 33
Marquette, Mich Green Bay, Wis	14 .		15	. 48		. 42
Green Bay, Wis Grand Haven, Mich			18			. 52 . <b>3</b> 0
			12			• •

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

Table of temperature and rainfall,	maple and ad Fahren 11	1899-Continued
Lable of temperature and runnjute,	week church T.co. man A TT	, iooo conanaca.

Locality.	Temp	erature in Fahrenhe		Rainfall in inches and hun- dredths.				
Locally.	Normal.	a Excess	aDefic'ncy.	Normal.	Excess.	Deficiency		
Lake Region—Continued.								
Milwaukee. Wis	20		16	.43		.4		
Chicago, Ill Duluth, Minn	24		16	. 55		.5		
Duluth, Minn	10		18	. 26		. 2		
Upper Mississippi Valley: St. Paul, Minn	1 10		10					
St. Paul, Minn	12 17		18	.21		.0		
La Crosse, Wis Dubuque, Iowa	20		21 17	.27 .35				
Davenport, Iowa	22		16	.35				
Des Moines Iows	20			.28		.2		
Keokuk, Iowa Hannibal, Mo	25		15	.42		.4		
Hannibal, Mo	28		19	.42 .72		.4		
Springneia, III	27			.72				
Cairo, Ill	36 32			.97				
St. Louis, Mo Missouri Valley :	- 32	*****	17	. 62		.4		
Columbia, Mo	32		21	. 53		.4		
Springfield, Mo	34			.78		.6		
Kansas City, Mo	27		18	. 35		.2		
Topeka, Kans Wichita, Kans	29	•••••		. 34		.0		
Wichita, Kans	30			.28				
Concordia, Kans	24			.21				
Lincoln, Nebr Omaha, Nebr	19 22	[·····	16 20	.21 .15				
Siour City Town	15		17	.15	••••••			
Sioux City, Iowa Yankton, S. Dak	17		20	.14	•••••	.1		
Valentine, Nebr	20		30	.14	.11			
Huron, S. Dak	8			.14	.04			
Pierre, S. Dak	13			.07	.25			
Moorhead, Minn	1		12	.20		.10		
Bismarck, N. Dak	8		22	.13		.10		
Williston, N. Dak	7	•••••	25	.14	••••••	.1		
locky Mountain Region : Havre, Mont	11		26	.14	.02			
Helens Mont	18			.22	.17	********		
Helens, Mont Miles City, Mont	13		29	.14		. 10		
Rapid City, S. Dak. Spokane, Wash. Wallawalla, Wash.	·20			.14		.0		
Spokane, Wash	25		18	. 56		.2		
Wallawalla, Wash	31	•••••	14	. 42	.10			
Baker City, Oreg	22 30		15	. 42	•••••	.8		
Winnemucca, Nev Idaho Falls, Idaho	18		11 11	.27 .42	•••••	.14		
Salt Lake City, Utah	31			.28	.62	.0		
Lander, Wyo	19			.14		.0		
Cheyenne, Wyo	26			.08	. 69			
North Platte, Nebr	22			.07		.0		
Denver, Colo	30		27	.09	.20	•••••		
Pueblo, Colo	31		26	.07	.23	•••••		
Dodge City, Kans	30 37			.14 .32	.04			
Oklahoma, Okla Amarillo, Tex Abilene, Tex	34		16	.28		.2		
Abilene. Tex	45		27	.31		.30		
Santa Fe. N. Mex	32		2	.16	.15			
El Paso, Tex	50	1		.13		.18		
Phœnix, Ariz acific Coast:	52		2	. 16		• .06		
Seattle, Wash	39			1.18				
Tacoma, Wash.	38							
Fort Canby, wasn	41 39							
Portland, Öreg Roseburg, Oreg								
Eureka. Cal				1.67				
Redbluff, Cal			5			.96		
Carson City, Nev Sacramento, Cal	33		8	. 43		. 27		
Sacramento, Cal			5	.84		.84		
San Francisco, Cal			5	1.05		.95		
Fresno, Cal	49	•••••••	5 •7	.28		.26		
San Luis Obispo, Cal	53 54	•••••	7	.98 .76	••••••	.70		
Los Angeles, Čal San Diego, Cal	54 54	•••••		.49		.74		
Yuma, Ariz	57		••••••	.14				
A VELANCE, 43.2 14 00000000000000000000000000000000000				• = = [				

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.]

## Oholera, yellow fever, plague, and smallpox as reported to the Supervising Surgeon-General United States Marine-Hospital Service, December 31, 1898, to February 17, 1899.

#### CHOLERA.

Places.	Date.	Cases.	Deaths.	Remarks.
India : Bombay Calcutta Madras	Dec. 20-Dec. 27 Nov. 26-Dec. 31 Nov. 19-Jan. 6	••••••	2 103 19	

## YELLOW FEVER.

|--|

## PLAGUE.

Madagascar :	Dec. 10-Dec. 17 Jan. 9 Dec. 25 Dec. 81 Nov. 22-Nov. 29 Nov. 19-Nov. 25 Nov. 28-Dec. 16.	5 10	1 2 2 43 1 38	- Plague exists.
Tamatave	Nov. 28-Dec. 16	88	38	

#### SMALLPOX.

Charles and the second se						the second se
Africa:						
Lorenzo Marquez	Dec.	1-Dec.	17	17	1	
Argentina:		- 2000		1		•
Buenos Ayres	Nov	. 1-Nov	90		5	
Belgium :	1101	. 1-1100				
	Dee	8-Jan.	-	1	14	
Antwerp	Dec.	o-Jan.	7	41	14	
Brasil:					1	
Babia		19-Jan.			10	
Bio de Janeiro	Nov.	11-Dec.	16	67	29	
Canada:						、 、
Province of Quebec	Jan.	26-Feb.	6	111	1	
Cuba:					-	
Habana	Dec.	30		i 1		In United States Army
England:				- 1		In Children States Himy
Liverpool	Dec	8-Jan.	01	2		
London		17-Jan.				
Sunderland				2	-	
	Jan.	15-Jan.	21	2	•••••	
France:	-					•
Paris	Dec.	24-Dec.	81		1	
India:						
. Bombay	Nov.	22-Dec.	27		4	
Calcutta	Nov.	19-Dec.	17		8	
Medras		26-Jan.				
Italy :					° I	
Milan	Jan	22-Jan.	98			
ALLEGER	Jan.	46-J AL.	20	1,	•••••	

Places.		Date.		Cases.	Deaths.	Remarks.
Japan :						•
Awomori Ken	Nov	. 18-Dec.	81	126	28	•
Chiba Ken		9-Dec.				
Hiogo Ken		. 18-Dec.	8			
Iwate Ken		9-Dec.				
Kanagawa Ken		18-Dec.				
Nagano Ken		9-Dec.				
Nagasaki Ken						
The Hokkaido	Nov	18-Dec	8			
Tottori Ken		18-Dec.				
Korea:	1101	10-Dec.	0		•••••	
Seoul	Jan.	1-Ton	7	i		Smallpox endemic.
Mexico :	Jan.	1-Jan.			•••••	Smanpox endemic.
C. P. Diaz.	Ton	10				Do.
Chihushus		7-Jan.				D0.
City of Mexico						
Monterey	Dec.	V- Ton	43 K		3	
Nuevo Laredo	Jec.	27-J80.	J		3 1	
Vera Cruz		29-reb. 5-Feb.			3	
Russia :	J 40.	J-reb.	4	•••••	•	
Moscow	Dee	24-Jan.	14	23	13	
		24-Jan. 7-Jan.		23	13	
Odessa				7	$\frac{2}{1}$	
St. Petersburg	Jan.	1-Jan.	14	1	1	
Turkey:	0.4	00 N	077			
Bagdad		22-Nov.			20	
Constantinople					42	
Smyrna	Dec.	25–Jan.	1		2	

## Cholera, yellow fever, plague, and smallpox, etc.—Continued. SMALLPOX—Continued.

## Current quarantine measures.

[Translated in this Bureau from the "Veröffentlichungen des Kaiserlichen Gesundheitsamtes," Berlin, January 18, 1899.]

BELGIUM.—By order of the minister of agriculture and public works dated December 30, 1898, the measures prescribed in articles 1 and 4 of the royal ordinance of April 5, 1897, in regard to measures for preventing the introduction of plague from India are put in force against arrivals from Persia, and from localities in China and the island of Formosa lying south of the thirtieth parallel. All such arrivals shall be treated at the quarantine stations of the Scheldt and Ostend, also at Selzaete according to the regulations laid down in the Venice convention. Articles described in article 1 of the ordinance of April 5, 1897, arriving from a plague suspected port of the Indian Ocean, must be accompanied by a certificate of origin signed by the Belgian consul at the port of departure.

JAPAN.—The quarantine order against arrivals from the island of Formosa is declared out of force in consequence of the extinction of the plague epidemic on that island. The police order of the royal German consulate at Yokohama dated June 20, 1898, and applying to vessels arriving from Formosa is also declared out of force from December 6, 1898.

## BRAZIL.

# Sanitary report from Rio de Janeiro—Serum treatment of yellow fever by Sanarelli.

RIO DE JANEIRO, January 4, 1899.

SIR: I have the honor to transmit to you the official report for the week ended December 23. There were 315 deaths from all causes, an

increase of 21 as compared with the foregoing week; 14 deaths from accesso pernicioso, a decrease of 2; 4 deaths from yellow fever, an increase of 1; 7 deaths from smallpox, an increase of 5; 3 deaths from typhoid fever, none before; 2 deaths from measles, an increase of 1; 2 deaths from beriberi, an increase of 1; 44 deaths from tuberculosis, a decrease of 11. \* \*

Information.—In my report of March 16, 1898 (PUBLIC HEALTH REPORTS, Vol. XIII, No. 15), I mentioned the experiments and results which Sanarelli obtained by application of his bactericide serum. That information was incomplete, although it was made public in a discourse of the said investigator. Since this serum treatment of the yellow fever, based on a theory whose scientific value can not be disputed, is of the highest practical and scientific importance, I may be permitted to return to this subject now. I have before me the report which the sanitary inspectors, Drs. Clemente, Ferreira, and Vicira de Mello, who accompanied Professor Sanarelli to Sao Carlos de Pinhal as official deputies, have presented to the director of the sanitary service and which has been published in a medical journal at Sao Paulo.

Of this report I give the following extract: Number of patients treated by the serum, 30; of these there were in the first stage of the disease, 26; in advanced stage, 3; decidedly oliguric, 1; total, 30. Of these 30 patients, were cured, 20; died, 10; of those who died, there received treatment in the first stage of the disease, 8; in advanced stage of the disease, 2; of those who were cured there received treatment in the first stage, 18; in the third stage, 2.

The total percentage of mortality was 33 per cent, but it is necessary to remark that the epidemic, which made its appearance this year in Sao Carlos, has been noted for its extraordinary violence.

We must classify in two series the cases submitted to the serotherapic treatment: (1) Those on whom was applied small moderate doses of the therapeutic agent, either subcutaneously or intravenously; (2) those who received from the beginning large doses, the first application being 60, 80, 100, 120 c.c. The second series, we must divide in two classes: (a) That of the patients who received intensive treatment from serum A and E; (b) the patients on whom were used injections of serum F. In the first series the dose produced little effect on the organism, being only observable when the intravenous treatment was used.

In the second series the reactionary phenomena were clearly defined, vehement, and even formidable in some of the patients on whom was employed the intensive method. Then at the end of five or ten minutes after the injections there appeared hyperæmia in the face in a violent form, as well as in the conjunctivae and in the upper parts of the thorax. In the skin was observed an increase of the circulation of the blood; urticaria, more or less prominent, frequently made its appearance. The pulse became stronger, fuller, and less rapid, especially always after the intravenous injection. At the same time the patients displayed an uncomfortable feeling of heat and swelling in the face, head, and whole This was followed by a more or less pertinacious cough, and in body. some cases chills, hyperthermia, and vomits. The temperature never failed to rise after the injections, even under the influence of small doses. In some cases there seemed to be a certain action of the serum on the uropoetic functions, there being free diuresis and even real These are the physiological effects of the serum. polyuria.

Of the therapeutic action we must still take in consideration the cases in which small doses were used and those in which the intensive method was employed. In the former, when the result was favorable, it was

observed that either the temperature after its rise, caused by the application of the serum, fell without rising again or that the subsequent elevations were insignificant and transient, or that the decline in general less prominent, which followed the reactionary rises of temperature, was ephemeral, the temperature again rising and passing during several days through greater or less irregular fluctuations, up to the period of At the same time the phenomena of the first stage showed normal state. the parallel attenuation and disappeared without the appearance of any In rare cases there were phenomena of hemorrhages or ataxia, accident. and, beyond, in some cases black vomit and a slight delirium, no other symptom was observed.

In the patients submitted to strong doses there seemed to be a more rapid decline in the principal symptoms and somewhat shorter evolution of the disease, and what is more important, the hemorrhagic accidents were exceptional, there being consequently no depressing phase of the affection.

In both instances the albuminuria did not seem to be visibly influenced by the serum, and in some of the patients this phenomenon, which failed to appear at the time of the first application, was displayed immediately afterwards with more or less prominence and lasted for a greater or less time without any visible difference from what is habitually observed.

In the cases which terminated with death, in both series the temperature, as a general rule, after reactionary elevations either did not decline at all or declined ephemerally, to rise again and to remain tenaciously at a high state in spite of repeated injections. At the end of three or four days of high temperature there was a decline, which was shortly followed by hemorrhagic and ataxic accidents, and a rapid and considerable decrease of the diuresis, which, however, never reached the point of complete cessation. In some patients, after a long reactionary period or even in the midst thereof, there appeared great complication in the brain and death promptly followed.

In cases treated with the serum, complete anuria was never observed, although it was common in other cases of this epidemic.

As to the patients, who in default of serum A and E, resorted to serum F, the results obtained were nugatory and the disease passed through all the stages without receiving the slightest favorable modification from this substance.

Since last report the following-named ships have been inspected and received bills of health of this office: December 28, bark Sunbeam, Norwegian, for Mobile, and steamship Straits of Menai, British, for Galveston. December 31 ship Constance, Norwegian, for Sapelo Island; bark Saturnus, German, for New Orleans; steamship Hevelius, Belgian, for New York; ship Harvest Queen, British, for Mobile, and steamship Biela, British, for New York. January 2, bark Margaret Mitchell, British, for Brunswick, and barkentine Priscilla, American, for Baltimore. January 4, barkentine White Wings, American, for Baltimore. W. HAVELBURG.

Respectfully, yours,

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

The SUPERVISING SURGEON-GENERAL, U. S. Marine-Hospital Service. 230

## CANADA.

## Smallpox in the province of Quebec.

## MONTREAL, February 6, 1899.

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

Municipality.	County.	Population.	Date of out- break.	New casessince last report.	Total cases since outbreak.	Died.	Recovered.	Still sick.	Houses infected since outbreak.	Houses still in- fected.
Coteau du Lac Coteau Landing St. Telesphore	Soulanges do do	1, 276 507 1, 307	Dec. 10 Dec. 29 Jan. 12	 a4	5 1 5	0 1	5 1	0 0 4	1 1 1	0 0 1

a In the previously infected house.

Mention could, perhaps, be made that in the city of Montreal, a boy having presented a suspicious eruption, upon the nature of which physicians could not agree at any time, quarantine has been kept over two weeks now, and will not be raised until after desquamation and subsequent disinfection of premises.

Yours, respectfully, ELZÉAR PELLETIER, Secretary Board of Health of the Province of Quebec.

## CUBA.

## Sanitary report from Havana.

HAVANA, CUBA, February 6, 1899.

SIR: I have the honor to submit the following report for the week ended Thursday, February 2, 1899: Two weeks have elapsed since a death from yellow fever was recorded and I do not know that there is a case now existing in the city. The mortality has steadily decreased for the past few weeks until it makes the present week death rate the lowest for over a year, possibly for over two years. Under the present conditions it can not go much lower before it again rises. The decreased death rate is due to the presence of Americans and food to a large extent but the diminution of material must enter largely into the decreasing death rate. \* \*

Very respectfully,

W. F. BRUNNER,

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

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

Mortality of the city of Havana for the week ended Thursday, February 2, 1899.

Cause of death.	Total.
Enteric fever Pernicious fever Malarial fever	

## Sanitary report from Santiago.

## SANTIAGO DE CUBA, January 28, 1899.

SIR: I have the honor to inform you that no deaths from either infectious or contagious diseases have been reported during the week ended Saturday, January 28. The total number of deaths has been 54, of which 10 were from tuberculosis; malarial fevers follow, and the rest from different diseases of noncontagious character. Our sanitary condition is improving daily, as shown by the accompanying mortality table. Both the civil and military hospitals are now in splendid sanitary condition and perfectly well attended to. The public now pay more attention to hygiene, and the streets and houses are kept clean. Where disinfection is needed it is immediately practiced.

Respectfully,

H. S. CAMINERO, M. D.,

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

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

## JAPAN.

## Sanitary report from Yokohama.

YOKOHAMA, JAPAN, January 3, 1899.

SIR: I have the honor to forward herewith my regular report of infectious disease in Japan, for period December 9 to December 31, 1898.

I am, sir, very respectfully, your obedient servant, STUART ELDRIDGE, M. D., Sanitary Inspector, U. S. M. H. S. The SUPERVISING SURGEON-GENERAL, U. S. Marine-Hospital Service.

#### [Inclosure.]

Report of infectious diseases in Japan from December 9 to December 31, 1898.

	Che	olera.	Dyse	ntery.	Sm	allpox.	P	lague.
Locality.	Cases.	Deaths	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths
Kioto Fu			11	5				
Osaka Fu	•••••		9	9				1
Tokio Fu	•••••		17	16				• •••••
Aichi Ken	•••••		15	. 5		••••••		
	•••••		10	5				
Akita Ken	•••••					15	•••••	•   • • • • • • • • • • • • • • • • • •
Awomori Ken	•••••		10	6	73	15		•   • • • • • • • • • • • • • • • • • •
Chiba Ken	•••••		75	32	1	•••••		• • • • • • • • • • • • • • • • • • • •
Fukui Ken	•••••••	•••••				•••••	•••••	
Fukuoka Ken	•••		14	8		•••••	•••••	•   • • • • • • • • • • • • • • • • • •
Fukushima Ken	•••••		10	3	•••••			
	•••••		14	9			•••••	
Gumma Ken	••••••		17	4			•••••	
Hiogo Ken				23				
Hiroshima Ken			48	27				
Ibaraki Ken			19	10				
Ishikawa Ken								l
Iwate Ken			18	24	1			[. <b></b>
Kagawa Ken			4					
Kagoshima Ken			20	5				
Kanagawa Ken			12	7				
Kochi Ken			12	6				
Kumamoto Ken			45	16				
Miyagi Ken	••••••		7	10	•••••	••••••		
Miyazaki Ken			26	11	•••••		•••••	
			<b>2</b> 0 8	4	•••••	••••••		
Miye Ken			35	26	1			
Nagano Ken			15	20 12	-		•••••	•••••
Nagasaki Ken		•••••	19		•••••	•••••	•••••	
Nara Ken				1	•••••	•••••	•••••	
Niigata Ken		•••••	73	48		•••••	••••••	
Dita Ken		•••••	15	6	•••••	••••••	•••••	
Okayama Ken		•••••	3	4			•••••	
Okinawa Ken			16	3				
Saga Ken			3	2			••••••	
Saitama Ken			30	15			•••••	
Shidzuoka Ken			56	27				
Shiga Ken			13					
Shimane Ken			24	9				
Fochigi Ken			8	8				
Fokushima Ken			6	2				
Fottori Ken			7	1				
Coyama Ken								
Wakayama Ken			5	2				
Yamagata Ken			-	-				
			21	7				
Yamanashi Ken		]	65	38				•••••••••••••••
Yehime Ken			14	8			•••••	
The Hokkaido		••••••	11	•	•••••		•••••	••••••
			(a)			•••••	( <b>b</b> )	•••••
Laiwan (Formosa)			(4)				(0)	
Total			852	454	76	15		

Vessels and crews inspected at Yokohama for the six months ended December \$1, 1899.

## YOKOHAMA, JAPAN, January 6, 1899.

SIR: I have the honor to report that during the half year ended December 31, 1898, I have officially inspected 84 vessels, bound for ports of the United States, or an average of 1 every two and one-fifth days.

Of these ships 14 were under the United States flag, 55 were British, 9 Japanese, 3 German, 2 Hawaiian, and 1 French, with crews aggregating 4,743. The Hawaiian ship, twice inspected, is an anomaly, as her transfer of flag having been, for some reason, refused, she is sailing under colors practically nonexistant.

Of the vessels inspected, 57 were steamers and 27 sailing vessels, and of the steamers, 38 carried steerage passengers, concerning whom I inclose a detailed statement, to the number of 13,578, as against 11,186 during the immediately preceding half year, and 6,938 in the corresponding period of 1897, showing a maintained increase in the amount of steerage travel through and from this port.

The number of steerage passengers, added to that of the crews of all vessels inspected, gives a total of 18,321 persons individually examined during the six months.

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

STUART ELDRIDGE, M. D.,

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

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

## Plague in Formosa.

## YOKOHAMA, JAPAN, January 13, 1899.

SIR: I have the honor to report that a government telegram received in Tokio yesterday announces that at Sckiteibyo in Tainan prefecture, southern Formosa, 4 cases of plague occurred on the 7th instant, and 1 case on the 9th. The same message adds that 2 persons died of the disease in the city of Tainan, where it is rapidly spreading.

I am, sir, very respectfully, your obedient servant, STUART ELDRIDGE, M. D.,

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

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

## MADAGASCAR,

## Bubonic plague in Tamatave.

CONSULATE OF THE UNITED STATES, Tamatave, December 25, 1898.

SIR: Referring to my cablegram of November 28, and confirmatory dispatch No. 28 of December 3, 1898, regarding the presence of the bubonic plague in Madagascar, I have the honor to say: To date there has been no abatement of the plague reported. Quarantine is still vigorously maintained. No shipping or receiving of merchandise of any kind. As a consequence, business of all kinds is paralyzed. Meantime living becomes daily more and more costly; 200 per cent advance since pest declared.

*	*	*	*	*	*	*
I an	n, sir, you	r obedient	servant,		W. W. GIB	
Com Ac				U	nited States	Consul.

HON. ASSISTANT SECRETARY OF STATE.

## FOREIGN STATISTICAL REPORTS.

AFRICA—Lorenzo Marquez.—Month of November, 1898. Estimated population, 5,000. Total number of deaths, 48, including smallpox, 19, and 3 from phthisis pulmonalis.

Month of December, 1898. Total number of deaths, 51, including enteric fever, 1; smallpox, 6, and 3 from phthisis pulmonalis.

BERMUDA.—Two weeks ended January 27, 1899. Estimated population, 15,013. No deaths and no contagious diseases. BRITISH COLUMBIA—Vancouver.—Two weeks ended January 31, 1899. Estimated population, ——. Total number of deaths, 13.

CANADA—Ontario—Hamilton.—Month of January, 1899. Estimated population, 51,000. Total number of deaths, 55, including diphtheria, 2; la grippe, 3; whooping cough, 1, and 11 from phthisis pulmonalis.

COLOMBIA—Panama.—Four weeks ended January 29, 1899. Estimated population, 16,000. Total number of deaths not reported. No contagious diseases.

**FRANCE**—*Nice.*—Month of December, 1898. Estimated population, 108,227. Total number of deaths, 214, including diphtheria, 2; enteric fever, 15, and 21 from phthisis pulmonalis.

*Marseilles.*—Week ended January 16, 1899. Death rate high; average per day, about 34; maximum, 36; minimum, 32. Chief causes of death, influenza and chest affections.

Week ended January 30. Health conditions n the city of Marseilles remain almost stationary, influenza being the prevalent disease. Total deaths during week, 197; greatest number, 38; smallest number, 23; average number, 28½. Four clean bills of health have been issued since last report. No additional news concerning the cases of anthrax at La Fleche.

GUIANA—Demerara.—Month of December, 1898. Estimated population, 86,250. Total number of deaths, 297. No contagious diseases.

HONDURAS—*Belize.*—Month of December, 1898. Estimated population, 30,000. Total number of deaths, 128, including 5 from phthisis pulmonalis.

JAPAN—Nagasaki.—Three weeks ended January 10. Estimated population, 132,000. Total number of deaths not reported. Four deaths from diphtheria.

## MORTALITY TABLE, FOREIGN CITIES.

		ula	Log B				Dea	ths f	rom	_		
Cities.	Week ended.	Estimated popula- tion.	Total deaths f all causes.	Cholera.	Yellow fever.	Smallpor.	Typhus fever.	Enteric fever.	Bcarlet fever.	Diphtheria.	Measles.	Whooping
Acapulco		6,000	4						.			
Aix la Chapelle Alexandretta	Jan. 21 Jan. 7	130,000 6,000	47		:			• • • • • • • • • • • • • • • • • • • •	• •••••	·	•	•••••
Do		6,000	11									
Amherstburg	Feb. 4	2,300	0					.				
Amsterdam Bahia	Jan. 28	512,758	148		·  ···;·			• • • • • • • • • • • • • • • • • • • •		2	2	
Barmen		200,000 137,000	50			1	1		1		1	
Barranquilla		40,000	18								<b>.</b>	
Do		40,000	21						<u>.</u> .			
Belfast		308,960	147						3	2		
Belize Belleville		13,000 10,300	63									
Berlin		1, 747, 903	573					2	8	18	8	
Bradford	Jan. 21	231, 260	88					2	2			
Bremen Brussels		144,000	50		• •••••		•••••	2			177	
Budapest	Jan. 21 Jan. 22	551, 611 650, 000	214				8		2	26	17	
Cairo	Jan. 14	570,062	421					4		5		
Calcutta		681, 560	503							1		
Callao Carthagena		25,000	28 15									
Do	Jan. 14 Jan. 19	25, 000 25, 000	13									
Catania	Jan. 27	120,000	85							1	1	
Christiania	Jan. 21	203, 337	79							2		
Chaudiere Junction Chemnitz	Feb. 4	500	0			•••••			2	•••••		
Coburg	Jan. 14 Jan. 7	163,000 19,470	83 12	•••••			•••••		2		1	
Do	Jan. 14	19, 470	14									
Cologne	do	353, 243	156					1		4		
Colombo Colon	Dec. 24 Jan. 25	130,000	98				•••••	1	•••••			••••
Constantinople		8,000 750,000	0 247					11		3	1	••••
Do	Jan. 23	750,000	308			23		5		5	1	
openhagen	Jan. 21	351,000	124					1	3	3	6	
Crefeld Dresden	do Dec. 31	110,000 388,300	39 121					····· 1	•••••	2 1	1	••••
Dublin.	Jan. 14	349, 594	182					i	1	2		
Do	Jan. 21	349, 594	a 192				1	2	1	1		
Sdinburgh	do	298, 927	120		•••••			1	1	1	6	1
Ensenada Fibraltar	Feb. 4 Jan. 22	2,750 25,900	09								•••••	••••
Firgenti	Jan. 21	24, 428	14									
lasgow	Jan. 20	733, 903	316					4	4	2	2	1
Sothenburg	Jan. 14	122,205	35					•••••	1	1		••••
Hamilton, Bermuda	Jan. 23 Jan. 24	6,500 16,000	42 5					•••••				••••
Do	Jan. 31	16,000	ĭ									
longkong	Dec. 24	248, 710	94									
Ionolulu	Jan. 21	30,000	17		•••••				•••••	···;•·		••••
Konigsberg A Paz, Mexico	op	179, 686 5, 600	 4						•••••	1		••••
eeds.	Jan. 28	423, 889	137					1	1	8	1	
æghorn	<b>Jan.</b> 22	104,509	39				•••••	1			·····	••••
eipsic		422,071	127 23				•••••	•••••	•••••		1 2	••••
eith icata	Jan. 21	77, 385 20, 000	11					2				
viverpool	do	668, 645	265				2	3	3	5	5	
ivingston, Guatemala	Feb. 28	1,500	1							•••••	•••••	••••
	Jan. 14 Jan. 6	466,028 452,518	154 388	•••••		1		1	1	••••	3	••••
fanchester	Jan. 6 Jan. 21	452,518					4	2	1	17	5	
fatamoras	Feb. 3	16, 304	6									
Iayence	Jan. 21	80,000									····· ·	••••
	Jan. 28	80,000			····· ·							••••
lazatlan lonterey	Feb. 5	16,700 25,000	15 60							1		
lunich	Dec. 31	430,000	205					1	3	-		
ew Castle on Tyne	Jan. '21	186, 345	83		.				.		3	
uevo Laredo		4, 500 194, 515	1 79			1	····· ·	····· ·				

a Beriberi, 1.

		popula-	from.			:	Deat	hs fi	rom	-		
Cities.	Week ended.	Estimated popu	Total deaths f all causes.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping
0saka	Dec. 17	202, 912	112			1		2				
До			115					-		4		
Do			103					1		4		
Do			131					2		I		
Paris		2, 511, 955	884						3	5	6	1
Plymouth			45					-	· · ·	ļ		
Tague			130					1	2	11	4	
uerto Cortes			Ĩ					-	- 1		<u> </u>	
uebec				1					1			
heims			38	1				1	l	1		
Do			38					2				
io de Janeiro			a315		4	7		3	1		2	1
otterdam			100	1	-			3		3		
. Petersburg			750	·····	1			21	14	27	6	
. Stephen, New Brunswick.			3	·····							U.	
. Thomas, West Indies	Jan. 30		3		·····		l			1	1	
antiago	Jan. 28		54								1	
heffield	Jan. 21		127					3	2	4	1	' <b> </b> '''
myrna	Jan. 8		87								-	
Do			58								1	
olingen	Jan. 21		7		•••••						1	
outhampton	Jan. 21		37		•••••					2		1
outh Shields	Jan. 21		38					2			1	1
ockholm	do		00					ĩ			2	
tuttgart	Dec. 19		55								-	
	Jan. 21		59				•••••			•••••		
underland			17			•••••	•••••	•••••				
ampico	Jan. 26 Jan. 21		16					•••••				
rapani rieste	Jan. 14		95			•••••	•••••	•••••	5	4	•••••	
enice			89		•••••	•••••			-	3	2	
era Cruz	Jan. 26		45		2			•••••	•••••	0	-	•••
Do			40		2		•••••	•••••				
ictoria		20,000	40		- 2	1	•••••	•••••	•••••	•••••		••••
Do	Jan. 14		7		•••••	•••••		1	•••••	•••••		••••
			9				•••••	i				••••
Do	Jan. 31		9		•••••		•••••	1	•••••	•••••		••••
Do ienna			567	•••••	•••••		•••••	2	4	13	11	••••
			666					-	4	13	10	1
Do		1,606,629	2			•••••		_				
Vindsor, Nova Scotia		49,000	2	•••••					•••••	····· 1	•••••	••••
innepeg						•••••		•••••	•••••	1		••••
okohama			40	•••••				•••••	•••••	2		••••
urich	uo	163,042	40							4		8

## MORTALITY TABLE, FOREIGN CITIES-Continued.

a Beriberi, 2

b Beriberi, 1.

By authority of the Secretary of the Treasury :

WALTER WYMAN,

Supervising Surgeon-General U.S. Marine-Hospital Service.