

ABSTRACT OF SANITARY REPORTS.

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UNITED STATES.

SPECIAL REPORTS.

Gulf quarantine station—Yellow fever.

Under date of June 22, 1891, Passed Assistant Surgeon Carter writes as follows:

I must report the occurrence of one case of yellow fever at this station in the person of Assistant Surgeon J. F. Groenevelt, of this service, developing the 18th instant.

Delaware Breakwater quarantine station.

Acting Assistant Surgeon Orr reports the arrival at the quarantine station of the American barkentine *St. Lucie*, June 12, from Cienfuegos, and the British bark *Ralph B. Peake*, from Trinidad, June 13, 1891. Both vessels had stopped at Rio, where they had several cases of yellow fever. No sickness en route or on arrival, but they were detained for disinfection.

South Atlantic quarantine station.

Passed Assistant Surgeon White reports British steamship *Stuart Prince* arrived at quarantine station June 5 from New York, bound for Fernandina. No sickness on board since she left Rio in April, where she had two cases supposed to have been yellow fever.

Case of lupus under treatment with tuberculin.

The following has been received from Surgeon W. H. Long, dated Cincinnati, June 18, 1891:

I have the honor to report that the case of lupus recently under treatment at Providence Hospital by officers of the United States Marine-Hospital Service, and transferred to my care at this station, is undergoing marked benefit under the administration of tuberculin. The right side of nose is entirely healed and skinned over, the left side showing decided signs of improvement.

Report upon smallpox epidemic and vaccination in Houston, Tex., 1890 and 1891—Contributed for the Royal Commission on Vaccination.

HOUSTON, TEX., June 18, 1891.

DEAR SIR: At your request, I beg leave to make the following report of smallpox occurring in Houston, Tex.:

On the 4th of December, 1890, a circus arrived in our city with a case of smallpox; was not known to any one until after they had left several days. On December 21 smallpox made its appearance in several parts of the city simultaneously—in hotels, boarding houses, etc. In less than five days I had 41 cases, mostly white. How many persons had been exposed at this time I could not estimate. At my suggestion, the city council made vaccination compulsory. The house-to-house plan was adopted. Of the 21,000 persons vaccinated there was no bad effect—no amputations or deaths. Some suffered several weeks with sore arms. In forty days I succeeded in getting disease under control. Of the 349 cases, no one contracted the disease that had been vaccinated under eleven years. Some vaccinated forty-nine years ago had varicelloid, but of such a mild type it was not necessary to go to bed.

I wish to state I had a large number in the quarantine hospital that had been vaccinated and were exposed who did not take the disease. This number was 120. I used the bovine virus from the New England farm, Massachusetts, and Lancaster vaccine farm, Pennsylvania.

Yours, etc.,

J. M. BOYLES, M. D.,
City Health Officer.

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

CALIFORNIA.—Month of May, 1891. Reports to the State board of health from 66 cities, towns, and villages, having an aggregate population of 608,945, show a mortality of 945 from all causes, including phthisis pulmonalis, 140; enteric fever, 20; scarlet fever, 2; diphtheria, 33; croup, 13; measles, 3; and whooping cough, 8.

COLORADO.—*Denver*.—Month of May, 1891. Population, 106,713. Total deaths, 156, including phthisis pulmonalis, 25; enteric fever, 2; influenza, 2; diphtheria, 12; measles, 2; and whooping cough, 1.

CONNECTICUT.—Month of May, 1891. Reports to the State board of health from 166 cities and towns, having an estimated population of 745,136, show a total of 1,171 deaths, including phthisis pulmonalis, 134; influenza, 26; enteric fever, 10; scarlet fever, 19; diphtheria and croup, 56; measles, 11; and whooping cough, 5.

MASSACHUSETTS.—*Worcester*.—Month of May, 1891. Population, 84,655. Total deaths, 143, including phthisis pulmonalis, 23; scarlet fever, 1; measles, 2; and whooping cough, 2.

MICHIGAN.—Week ended June 13, 1891. Reports to the State board of health, Lansing, from 54 observers, indicate that membranous croup, cholera infantum, puerperal fever, scarlet fever, cerebro-spinal meningitis, typhoid fever, whooping cough, dysentery, and intermittent fever increased, and that inflammation of brain, typho-malarial fever,

diphtheria, consumption of lungs, and pneumonia decreased in area of prevalence.

Diphtheria was reported present during the week at 19 places, scarlet fever at 31 places, enteric fever at 12 places, and measles at 35 places.

Detroit.—Month of May, 1891. Population, 205,876. Total deaths, 347, including phthisis pulmonalis, 33; enteric fever, 2; scarlet fever, 3; diphtheria, 26; measles, 5; and whooping cough, 3.

MISSOURI—*Kansas City.*—Month of May, 1891. Population, 132,716. Total deaths, 131, including phthisis pulmonalis, 16; scarlet fever, 1; diphtheria, 2; and croup, 2.

NEW JERSEY—*Hudson County.*—Month of May, 1891. Population, 283,850. Total deaths, 622, including phthisis, 72; enteric fever, 7; diphtheria, 20; scarlet fever, 20; and measles, 12.

Publications received.

Report of the health of Liverpool during the year 1890, published by J. Stopford Taylor, M. D., health officer.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

Cities.	Week ended.	Population, U. S. Census of 1880.	Total deaths from all causes.	Deaths from—									
				Phthisis pulmonalis.	Yellow fever.	Smallpox.	Varicella.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
New York, N. Y.	June 20	1,515,301	952	85						2	33	27	16
Chicago, Ill.	June 20	1,099,850	448	41						45	5	12	6
Philadelphia, Pa.	June 13	1,046,964								11	4	8	
Brooklyn, N. Y.	June 20	806,343	436	44							12	15	5
St. Louis, Mo.	June 20	451,770								2	2	18	1
Boston, Mass.	June 20	448,477	210	27						3		4	4
Baltimore, Md.	June 20	434,439	137	11						3	4	4	1
San Francisco, Cal.	June 13	298,997	115	10						2		9	
Cincinnati, Ohio.	June 19	296,908	117	10						7			2
Washington, D. C.	June 20	230,392	140	6						1		3	1
Detroit, Mich.	June 20	205,876	65	3								3	
Milwaukee, Wis.	June 13	204,468	89	7								3	3
Milwaukee, Wis.	June 20	204,468	86	9						1	5	5	4
Louisville, Ky.	June 5	161,129	44	3							1	2	1
Louisville, Ky.	June 13	161,129	52								1	1	7
Louisville, Ky.	June 20	161,129	63	2						3	3	4	
Rochester, N. Y.	June 20	133,896	41	3								3	
Providence, R. I.	June 20	132,146	49									3	1
Indianapolis, Ind.	June 20	105,436	55	7						2		4	
Toledo, Ohio	June 19	81,434										1	
Richmond, Va.	June 13	81,388	37	5								1	
Richmond, Va.	June 20	81,388	64	11								1	
Nashville, Tenn.	June 20	76,168	40										
Lynn, Mass.	June 13	55,727	21									2	
Lynn, Mass.	June 20	55,727	17	1									
Portland, Me.	June 20	36,425	16										1
Binghamton, N. Y.	June 20	35,005	8	1									
Yonkers, N. Y.	June 20	32,033	14	1									
Galveston, Tex.	May 29	29,084	15	2									
Galveston, Tex.	June 5	29,084	20	2									
Auburn, N. Y.	June 20	25,858	12	4								1	
San Diego, Cal.	June 13	16,159	2										
Pensacola, Fla.	June 13	11,750	12	3					2				

Table of temperature and rainfall, week ended June 19, 1891.

[Received from War Department, Signal Office.]

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess	Deficiency.	Normal.	Excess.	Deficiency.
New England States:						
Eastport, Me.....	56	28		.84		.76
Portland, Me.....	63	27		.81		.45
Boston, Mass.....	66	14		.77	.11	
Block Island, R. I.....	62	14		.70		.48
Middle Atlantic States:						
Albany, N. Y.....	68	28		.91	1.02	
New York, N. Y.....	69	14		.71		.27
Philadelphia, Pa.....	72	14		.77	.19	
Atlantic City, N. J.....	67		14	.77	.09	
Baltimore, Md.....	73			.98	1.17	
Washington, D. C.....	72	21		.98	.46	
Lynchburg, Va.....	74	21		.84		.44
Norfolk, Va.....	74	28		.98		.34
South Atlantic States:						
Charlotte, N. C.....	76	14		1.11		1.07
Wilmington, N. C.....	77	14		1.43		.88
Charleston, S. C.....	79			1.23		1.10
Augusta, Ga.....	79	14		.98		.70
Savannah, Ga.....	78			1.75		1.04
Jacksonville, Fla.....	80			1.29		.17
Key West, Fla.....	83		14	.98		.42
Gulf States:						
Atlanta, Ga.....	76	14		1.05		1.02
Pensacola, Fla.....	80			1.47	.90	
Mobile, Ala.....	80			1.41	2.79	
Montgomery, Ala.....	80			1.19		.48
Vicksburg, Miss.....	80			.99	.99	
New Orleans, La.....	81		14	1.61	1.69	
Shreveport, La.....	81			.84		.46
Fort Smith, Ark.....	77		17	1.05	1.27	
Little Rock, Ark.....	78			1.05	.75	
Palestine, Tex.....	79	14		.84		.82
Galveston, Tex.....	82			1.19		1.12
San Antonio, Tex.....	81			.63		.89
Corpus Christi, Tex.....	81			.65		.65
Brownsville, Tex.....	82	14		.77		.75
Rio Grande City, Tex.....	85	14		.51		.15
Lake Region:						
Oswego, N. Y.....	63	28		.82		.49
Rochester, N. Y.....	65	28		.77		.68
Buffalo, N. Y.....	64	28		1.84		.46
Erie, Pa.....	66	14		1.02		.78
Cleveland, Ohio.....	67	28		.98		.72
Sandusky, Ohio.....	69	14		.98		.35
Toledo, Ohio.....	68	28		.84	.44	
Detroit, Mich.....	67	28		.84		.26
Port Huron, Mich.....	63	28		.86	.02	
Alpena, Mich.....	60	28		.84	.80	
Marquette, Mich.....	58	28		.91		.33
Grand Haven, Mich.....	63	42		.98		.02
Milwaukee, Wis.....	63	14		.98	.24	
Chicago, Ill.....	67	14		1.84		.20
Duluth, Minn.....	58	14		1.17		.51
Ohio Valley and Tennessee:						
Memphis, Tenn.....	78			1.23	.80	
Nashville, Tenn.....	76	14		1.05		.52
Chattanooga, Tenn.....	76	14		1.05	2.80	
Knoxville, Tenn.....	74	28		.98	.20	
Louisville, Ky.....	74	28		1.10		.98
Indianapolis, Ind.....	72	42		1.25		.65
Cincinnati, Ohio.....	73	28		1.13		.83
Columbus, Ohio.....	70	42		.83		.22
Pittsburgh, Pa.....	71	42		.82	.20	
Upper Mississippi Valley:						
St. Paul, Minn.....	68	14		1.14	.49	
La Crosse, Wis.....	68	19		1.05	1.45	
Dubuque, Iowa.....	69	28		1.27		.37
Davenport, Iowa.....	70	28		1.05	.09	
Des Moines, Iowa.....	71	9		1.42	1.14	
Keokuk, Iowa.....	71	28		1.19		.77
Springfield, Ill.....	71	28		1.30		1.29
Cairo, Ill.....	75			1.08		.48
St. Louis, Mo.....	75	14		1.21	.01	

Table of temperature and rainfall, week ended June 19, 1891—Continued.

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Missouri Valley:						
Springfield, Mo.....	73		14	1.31		.25
Kansas City, Mo.....	74		14	1.25	1.01	
Concordia, Kans.....	73		14	.91	2.91	
Omaha, Nebr.....	72			1.39		.81
Valentine, Nebr.....	68		42	.73	1.31	
Huron, S. D.....	67		14	.84	3.79	
Sully, Fort, S. D.....	69		28	.87		.66
Extreme Northwest:						
Moorhead, Minn.....	65			.98		.32
Bismarck, N. D.....	65		28	.93	1.08	
Buford, Fort, N. D.....	65		42	.88		.07
Rocky Mountain Slope:						
Assiniboine, Fort, Mont.....	63		28	.77	1.75	
Helena, Mont.....	61		28	.56	1.22	
Custer, Fort, Mont.....	65		42	.69	.83	
Salt Lake City, Utah.....	68		56	.17	.84	
Cheyenne, Wyo.....	62		28	.35	1.01	
North Platte, Nebr.....	69		42	.77	2.65	
Denver, Colo.....	67		42	.28	.81	
Montrose, Colo.....	67		28	.07		.07
Pueblo, Colo.....	72		56	.35	.21	
Dodge City, Kans.....	73		42	.77	1.93	
Sill, Fort, Ind. T.....	78			1.05		
Santa Fé, N. Mex.....	66		28	.21		.05
Pacific Coast:						
Olympia, Wash.....	60		14	.35	1.76	
Portland, Oreg.....	63		14	.45	1.16	
Roseburg, Oreg.....	62		14	.28	.13	
Red Bluff, Cal.....	73		28	.14	.10	
Sacramento, Cal.....	69		28	.07		.07
San Francisco, Cal.....	60			.07		.07
Los Angeles, Cal.....	68		14	.01		.01
San Diego, Cal.....	65			.00	.00	.00
Yuma, Ariz.....	85		28	.00	.00	.00

FOREIGN.

(Reports received through the Department of State and other channels.)

Sanitary commission at Constantinople—Report of United States commissioner—Cholera at Camaran.

REPORT NO. 24.

In a postscript of my last report, under date of the 18th instant, I gave notice of the outbreak of cholera at Camaran among the pilgrims on the English steamship *Sculptor*.

Further reports state that all new cases have been registered among the pilgrims of the same band, and the sanitary guardian fell ill from the same sickness.

The total number of cases of cholera registered from the 15th to the 19th instant is 15, of which 14 were pilgrims and 1 a sanitary guardian. Of these, 4 died.

The pilgrims among whom cholera broke out declared their wish to turn back home. It is understood that their wish was immediately granted, in order to get rid of the epidemic. In fact, a telegram, under date of the 24th instant, arrived here at the General Sanitary Administration Station stating that the steamship *Sculptor* started from Camaran bound for Bombay with her cargo of pilgrims.

No new cholera cases have been registered since, and the guards and the soldiers who were watching, forming a part of the sanitary cordon, have been put under quarantine.

The *areeshes* are disinfected with the vapors of sulphur and the tents are immersed in the sea, where they will remain for twenty days.

We were quiet on account of the sanitary condition of the province of Aleppo, and I hope that we will continue to be so, though under date of the 23d instant, the sanitary physician of that town reports, by wire, that a woman about fifty years old, in consequence of debauchery, died, presenting all the classical symptoms of cholera. All sanitary measures have been taken for the disinfection of the place. Thanks to God, no new case has been registered, and it is stated that in the vilayet the health is good.

S. C. ZAVITZIANO.

CONSTANTINOPLE, May 26, 1891.

AFRICA—*Sierra Leone*.—The quarantine against Bonny and St. Paul de Loando was removed April 30, 1891.

BRAZIL—*Ceara*.—Month of April, 1891. Population, 35,065. Total deaths, 142, including smallpox 1 and beri-beri 1.

CUBA—*Havana*.—The United States sanitary inspector sends the following report, dated June 13, 1891:

There were 137 deaths in this city during the week ended June 12. Nine of those deaths were from yellow fever, with approximately 20 new cases. Three were caused by so-called pernicious fever, 2 by paludal fever, 1 by enteric fever, and 8 by smallpox.

The weather has been very warm for the last ten days, with occasional showers.

Yellow fever is markedly increasing, particularly among the recently arrived soldiers in the fortifications, 7 out of the 9 deaths from yellow fever during the last week having occurred in the military hospital.

EGYPT.—Week ended May 14, 1891. The towns in upper and lower Egypt, including Gizeh and the Suez Canal, show a total of 1,215 deaths, including phthisis pulmonalis, 63; enteric fever, 67; smallpox, 4; diphtheria and croup, 3; measles, 49; and whooping cough, 5.

Week ended May 21, 1891. Total deaths, 1,257, including phthisis pulmonalis, 66; enteric fever, 69; diphtheria and croup, 1; measles, 67; and whooping cough, 4.

FRANCE—*Marseilles*.—Month of May, 1891. Population, 406,919. Total deaths, 860, including smallpox, 32; enteric fever, 16; scarlet fever, 1; diphtheria and croup, 65; measles, 34; and whooping cough, 3.

GREAT BRITAIN—*England and Wales*.—The deaths registered in 28 great towns of England and Wales during the week ended June 6 corresponded to an annual rate of 28.3 a thousand of the aggregate population, which is estimated at 9,715,559. The lowest rate was recorded in Norwich, viz, 16.5, and the highest in Blackburn, viz, 48.5 a thousand.

London.—Two thousand one hundred and eighty-nine deaths were registered during the week, including smallpox, 1; measles, 42; scarlet fever, 7; diphtheria, 24; whooping cough, 64; enteric fever, 6; typhus fever, 1; and diarrhoea and dysentery, 14. The deaths from all causes corresponded to an annual rate of 27.0 a thousand. Diseases of the respiratory organs caused 547 deaths. In greater London 2,739 deaths were registered, corresponding to an annual rate of 25.2 a thousand of the population. In the "outer ring" the deaths included measles, 5; whooping cough, 13; and diphtheria, 5.

Ireland.—The average annual death rate, represented by the deaths registered during the week ended June 6, in the 16 principal town districts of Ireland, was 19.2 a thousand of the population. The lowest rate was recorded in Newry, viz, 0.0, and the highest in Dundalk, viz, 30.6 a thousand. In Dublin and suburbs 136 deaths were registered, including enteric fever 1 and whooping cough 2.

Scotland.—The deaths registered in eight principal towns during the week ended June 6 corresponded to an annual rate of 25.3 a thousand of the population, which is estimated at 1,345,563. The lowest mortality was recorded in Leith, viz, 17.1, and the highest in Paisley, viz, 30.4 a thousand. The aggregate number of deaths registered from all causes was 651, including measles, 27; scarlet fever, 3; diphtheria, 4; whooping cough, 25; fever, 3; and diarrhoea, 10.

INDIA—*Calcutta—Cholera*.—Under date of May 20, 1891, the United

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.
Cardiff.....	May 23....	121,477	64	.....	.....	.....	.....	1	.....	1	.....
Cardiff.....	May 30....	121,477	76	.....	.....	.....	.....	1	.....	1	.....
Stettin.....	May 30....	116,000	49	.....	.....	.....	.....	4	.....	2	.....
Havre.....	May 30....	112,074	48	.....	.....	.....	.....	1	.....	1	.....
Catania.....	May 31....	110,000	71	.....	.....	.....	.....	1	2	.....	.....
Crefeld.....	May 30....	108,000	61	.....	.....	.....	.....	.....	.....	.....	.....
Crefeld.....	June 6....	108,000	84	.....	.....	.....	.....	.....	.....	.....	.....
Gothenburg.....	May 30....	106,246	52	.....	.....	.....	.....	.....	.....	.....	.....
Rheims.....	June 6....	104,639	51	1	1	1
Aix-la-Chapelle.....	May 31....	104,638	39	.....	.....	.....	.....	.....	.....	.....	.....
Zurich.....	May 30....	91,323	35	.....	.....	.....	5	.....	4	4	9
Leith.....	May 30....	80,736	26	.....	.....	.....	.....	.....	.....	.....	.....
Mayence.....	May 30....	73,271	31	.....	.....	.....	.....	.....	.....	2	.....
Jerez de la Frontera.....	May 16....	61,708	48	.....	.....	2	.....	1	.....	.....	.....
Jerez de la Frontera.....	May 23....	61,708	31	.....	.....	1	.....	1	.....	.....	.....
Cadiz.....	May 16....	57,157	56	.....	.....	.....	.....	1	.....	1	.....
Cadiz.....	May 23....	57,157	42	.....	.....	.....	.....	2	.....	2	.....
Cadiz.....	May 30....	57,157	41	.....	.....	.....	.....	.....	.....	.....	2
Trapani.....	May 30....	43,095	17	.....	.....	.....	.....	.....	.....	.....	.....
Marsala.....	May 30....	40,131	13	.....	.....	.....	.....	.....	.....	.....	.....
Gibraltar.....	May 31....	25,755	3	.....	.....	.....	.....	.....	.....	.....	.....
Schiedam.....	May 30....	25,437	11	.....	.....	.....	.....	.....	.....	.....	.....
Schiedam.....	June 6....	25,437	12	.....	.....	.....	.....	.....	.....	.....	.....
Curacao.....	May 30....	25,000	4	.....	.....	.....	.....	.....	.....	.....	.....
Vera Cruz.....	June 12....	23,800	14	.....	9	.....	.....	.....	.....	.....	.....
Girgenti.....	May 30....	23,547	12	.....	.....	.....	.....	.....	.....	.....	.....
Licata.....	May 30....	20,000	16	.....	.....	.....	.....	.....	8	1	.....
Flushing.....	May 30....	13,200	2	.....	.....	.....	.....	.....	.....	.....	.....
Flushing.....	June 6....	13,200	6	.....	.....	.....	.....	.....	.....	.....	.....
St. Thomas, W. I.....	May 15....	12,019	40	.....	.....	1	.....	.....	.....	.....	.....
St. Thomas, W. I.....	May 22....	12,019	44	.....	.....	.....	.....	.....	.....	.....	1
Tuxpan.....	May 30....	9,000	4	.....	.....	.....	.....	.....	.....	.....	.....
Chatham.....	June 13....	8,730	1	.....	.....	.....	.....	.....	.....	.....	.....

OFFICIAL :

WALTER WYMAN,

Supervising Surgeon-General, Marine-Hospital Service.