ABSTRACT OF SANITARY REPORTS.

Vol. VI. Washington, D. C., January 23, 1891.

No. 4.

[Published at the Marine-Hospital Bureau in accordance with act of Congress of April 29, 1878.]

UNITED STATES.

Official experiments with the Koch "lymph."

The President has presented to this Bureau two vials of the Koch "lymph" with instructions to make a careful test of its merits.

The instructions have been prepared and will be published in next week's issue.

SPECIAL REPORTS.

FLORIDA—Removal of restrictions upon the importation of stock from Georgia.—The following has been received from the State health officer, dated January 15, 1891:

All restrictions placed by the State board of health of Florida upon the importation of stock from the State of Georgia into the State of Florida because of the existence of glanders in certain parts of that State (Georgia) are hereby removed.

GEORGIA—Savannah—Smallpox.—P. A. Surgeon Carrington, under date of January 12, 1891, reports 2 additional cases of smallpox, making a total of 5 cases since December 28, 1890. These 2 cases are in the family in which the first case occurred, and were probably contracted from that case.

ILLINOIS—Cairo—Scarlet fever.—Asst. Surgeon R. M. Woodward, under date of January 18, 1891, writes as follows:

I have the honor to report epidemic scarlet fever at this place. There are probably a dozen cases under treatment at present.

Infected houses are placarded, isolation of the sick practiced, and fumigation of the premises conducted after recovery.

No deaths reported yet.

Washington—Port Townsend—Smallpox-infected vessel in quarantine.— Under date of January 3, 1891, Acting Assistant Surgeon Conover reports the arrival of the vessel Primrose Hill, ninety-eight days from Rio de Janeiro. When three days out, smallpox appeared, of which there were 10 cases and 2 deaths. The captain stated that he had burned all the affected clothing and fumigated the ship, and that no case of sickness

(27)

had occurred within the forty days immediately preceding the arrival of the vessel at Port Townsend.

The ship was fumigated at Port Townsend and allowed to proceed to Tacoma, where she is undergoing ten days' quarantine with guard on board to prevent the crew going ashore.

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

California—Sacramento.—Month of December, 1890. Population, 30,000. Total deaths, 39, including phthisis pulmonalis, 5; diphtheria, 1; and scarlet fever, 1.

San Francisco.—Month of December, 1890. Population, 300,000. Total deaths, 580, including phthisis pulmonalis, 79; enteric fever, 10; smallpox, 3; diphtheria, 33; croup, 20; and whooping cough, 1.

CONNECTICUT.—Month of December, 1890. Reports to the State board of health from 168 cities and towns, having an aggregate population of 744,278, show a total of 999 deaths, including phthisis pulmonalis, 111; enteric fever, 21; scarlet fever, 5; diphtheria and croup, 43; measles, 2; and whooping cough, 6.

New Haven.—Month of December, 1890. Population, 86,000. Total deaths, 148, including phthisis pulmonalis, 25; enteric fever, 1; scarlet fever, 3; and diphtheria and membranous croup, 15.

ILLINOIS—Chicago. — Month of December, 1890. Population, 1,100,000. Total deaths, 1,700, including phthisis pulmonalis, 150; enteric fever, 47; scarlet fever, 23; diphtheria, 90; croup, 49; measles, 20; and whooping-cough, 19.

Iowa—Keokuk.—Month of December, 1890. Population, 18,589. Total deaths, 18, including phthisis pulmonalis, 1; enteric fever, 1; and diphtheria, 3.

Month of November, 1890. The following mortuary report is taken from the *Monthly Bulletin* for December:

COUNCIL BLUFFS.—November. Consumption, 1; pneumonia, 2; diphtheria, 9; croup, 2. Total deaths, 26. Population, 28,000. Death rate per 1,000, 0.92.

BURLINGTON.—November. Consumption, 2; diphtheria, 3; typhoid fever, 1. Total deaths, 21. Population, 22,528. Death rate, 0.95.

DAVENPORT.—November. Diphtheria, 2; membranous croup, 2; typhoid fever, 1; consumption, 3; pneumonia, 1. Total deaths, 34. Population, 33,715. Death rate, 1.8.

DES Moines.—November. Diphtheria, 18; membranous croup, 3; consumption, 4; pneumonia, 2; typhoid fever, 1; meningitis, 1. Total deaths, 74. Population, 53,000. Death rate per 1,000, 1.2.

DUBUQUE.—November. Diphtheria, 3; consumption, 1; pneumonia, 1; typhoid fever, 1. Total deaths, 24. Population, 30,147. Death rate per 1,000, 0.71.

KEOKUK.—November. Diphtheria, 6; meningitis, 1; consumption, 1. Total deaths, 15. Population, 14,500. Death rate per 1,000, 1.5. MUSCATINE.—November. Diphtheria, 3; pneumonia, 1. Total deaths, 10. Population, 11,432. Death rate per 1,000, 0.9.

SIOUX CITY.—October. Consumption, 3; pneumonia, 1; diphtheria, 8; scarlet fever, 1; typhoid fever, 6. Total deaths, 38. Population,

37,862. Death rate per 1,000, 1.13.

Diphtheria is reported as having become widely prevalent over the State, and in several localities epidemic. Two instances have been reported where the disease could be traced to no other source than to cats. The family was so situated that infection was deemed impossible by exposure from other persons. A distant neighbor's cat and the family cat were sick about the premises with all the symptoms of diphtheria, and finally died. Soon after, the children had the disease. In another case, three dead cats were found under the floof. The premises were isolated. It was remembered that prior to the disappearance of the cats they were sick several days. They were removed, and the disease subsided. The sanitary surroundings and water supply of the premises were unusually good, thus fixing the cats as undoubtedly the source of the disease.

The cat will be found a source of this disease to a much greater ex-

tent than has been hitherto supposed.

The record of investigation shows that not only cats, but chickens, are peculiarly susceptible of this disease.

KENTUCKY—Louisville.—Month ending January 3, 1891. Population, 227,000. Total deaths, 273, including phthisis pulmonalis, 30; enteric fever, 13; scarlet fever, 2; and diphtheria, 13.

MASSACHUSETTS—Worcester.—Month of December, 1890. Population, 85,000. Total deaths, 124, including phthisis pulmonalis, 23; scarlet fever, 1; diphtheria, 3; and membranous croup, 1.

MICHIGAN.—Week ended January 10, 1890. Reports to the State board of health, Lansing, from 54 observers, indicate that inflammation of kidney and whooping cough increased, and that typho-malarial fever, inflammation of bowels, inflammation of brain, cholera infantum, diphtheria, membranous croup, erysipelas, measles, cerebro-spinal meningitis, scarlet fever, and typhoid fever decreased in area of prevalence.

Diphtheria was reported present, during the week, at 30 places, scarlet fever at 42, enteric fever at 19, and measles at 32.

MINNESOTA—Minneapolis.—Month of December, 1890. Population, 164,738. Total deaths, 209, including phthisis pulmonalis, 14; scarlet fever, 1; diphtheria, 17; and whooping cough, 2.

Winona.—Month of December, 1890. Population, 19,000. Total deaths, 25, including diphtheria 6 and whooping cough 1.

OHIO.—Month of November, 1890. Reports to the State board of health from 63 cities and towns, having an aggregate population of

1,271,139, show a total of 1,509 deaths, including phthisis pulmonalis, 193; enteric fever, 80; scarlet fever, 4; croup and diphtheria, 207; measles, 2; and whooping cough, 5.

Dayton.—Month of December, 1890. Population, 60,000. Total deaths, 73, including phthisis pulmonalis, 5; enteric fever, 1; diphtheria, 9; and membranous croup, 2.

TENNESSEE—Chattanooga.—Month of December, 1890. Population, 40,000. Total deaths, 56, including phthisis pulmonalis, 8; enteric fever, 2; diphtheria, 1; and croup, 1.

Memphis.—Month of December, 1890. Population, 62,000. Total deaths, 50, including enteric fever 1 and diphtheria 4.

TEXAS—San Antonio.—Month of December, 1890. Population, 50,000. Total deaths, 117, including phthisis pulmonalis, 16; enteric fever, 1; and croup, 3.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

		uls-		Deaths from—										
Cities.	Week ended.	Estimated popula- tion.	Total deaths from all causes.	Phthisis pul- monalis.	Yellow fever.	Smallpox.	Varioloid.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Philadelphia, Pa	Jan. 10	1,064,277	398	47		i				8	4	11		4
Brooklyn, N. Y	Jan. 10	853, 945	391	71				•••••		3	9	24	5	1
Brooklyn, N. Y	Jan. 19	853, 945	360		•••••	ļ				4	11	20	4	2
St. Louis, Mo	Jan. 10	460,000								2	4	7	1 *	1 4
Boston, Mass	Jan. 17	448, 477	222						ļ	3	4	3	3	''''i
	Jan. 16		91	14	•••••					1	i	3	9	,
Cincinnati, Ohio		325,000	71		•••••					5	i	3		
Cleveland, Ohio	Dec. 13	262,000		7				••••						
Cleveland, Ohio	Dec. 20	262,000	78	6	•••••	•••••	•••••	•••••	•••••	3 2		2]]
New Orleans, La	Jan. 3	254,000	206	23		•••••				2	•••••			
New Orleans, La	Jan. 10	254,000	186	26	•••••						•••••	1		·····
Washington, D. C	Jan. 10	250,000	87							1		3		
Pittsburgh, Pa	Jan. 10	240,000	103					,		7	•••••	3	5	2
Milwaukee, Wis	Jan. 10	220,000	81									10	1	1
Newark, N. J	Jan. 17	193, 799	106	7						9	•••••	1		1
Minneapolis, Minn	Jan. 10	164, 738	47							2	1	. 1	1	
Minneapolis, Minn	Jan. 17	164, 738	50							3		3		
Rochester, N. Y	Jan. 17	138,000	36							i	4	4		
Providence, R. I	Jan. 17	135,000	49							1		1		· · · · ·
Richmond, Va	Jan. 10	100,000	48	6								1		l
Richmond, Va	Jan. 17	100,000	32	2								2		
Toledo, Ohio	Jan. 16	82,652	24									2		
Nashville, Tenn	Jan. 17	76, 309	42	l						1		2		ł
Galveston, Tex	Dec. 26	40,000	20	2							1	1		
Galveston, Tex	Jan. 2	40,000	13	1						.				
Portland, Me	Jan. 7	40,000	7	l										l
Binghamton, N. Y	Jan. 17	35,000	7											
Altoona, Pa	Dec. 20	34, 397	11							1				
Altoona, Pa	Dec. 27	34, 397	11							ī			1	
Altoona, Pa	Jan. 3	34, 397	7							2			1	
Yonkers, N. Y	Jan. 10	32,000	9							l		1	1	
Auburn, N. Y	Jan. 17	25, 887	7	1							••••			
Newton, Mass	Jan. 10	24, 375	6	1	•••••	· · ·							ı	١
Newton, Mass	Jan. 17	24, 375	ğ		•••••							•••••	ļ. 	١
Rock Island, Ill	Jan. 11	17,000	4		•••••			•••••				•••••		١
San Diego, Cal	Jan. 3	16,000	2	1	•••••			•••••	•••••				l	l
San Diego, Cal	Jan. 10	16,000	6		•••••			•••••	•••••		•••••	•••••		l
Dan Diego, Cal	Jan. 10	10,000		1		•••••			•••••	******		*****		

Table of temperature and rainfall, week ended January 9, 1891.

[Received from War Department, Signal Office.]

Locality,	Mean ter	mperature Fahrenhe	in degrees eit.	Rainfall in inches and hundredths.						
LOCALITY,	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.				
New England States:										
Eastport, Me Portland, Me	22	i	7	. 91		.13				
Portland, Me	22		14	.77		. 20				
Boston, Mass	28	}	28	.94		. 25				
Boston, Mass	33	ļ	25	.98		.02				
Albany N V	25	1	68	. 63	. 19					
New York N V	32			.84	. 13	.70				
Philadelphia Pa	32		33	.75						
Atlantic City, N. J.	32	•••••	42	.90						
Philadelphia, Pa	34		33	.70		. 70				
Washington, D. C	33			.74		.74				
Lynchburg, Va	35			. 92						
Norfolk, Va	40			. 84						
Washington, D. C										
Charlotte, N. C	39		13	1.19		1.09				
Hatteras, N. C	44			1.40		1.40				
Charlotte, N. C	45			. 88	•••••	. 88				
Unarieston, S. U	48	•••••		. 91	•••••					
				.96	•••••					
Savannan, Ga	49	••••••		. 84						
Savannah, Ga Jacksonville, Fla Key West, Fla	53 69			.77 .38		.77				
Gulf States:	09	•••••	, 28	. 38		.38				
Pensacola, Fla	51		5	1.12	İ	. 65				
Mobile, Ala	49	1		$1.12 \\ 1.12$						
Montgomery Ale	46		27	1.12		.39				
Montgomery, Ala Vicksburg, Miss	43	31		1.19	.94	.00				
New Orleans, La. Shreveport, La. Fort Smith, Ark.	52	20		1.23		. 49				
Shreveport, La	42	35		1.12	.95					
Fort Smith, Ark	35			. 50	. 61					
Little Rock Ark	39			1.05	1.05					
Palestine, Tex	40	0	0	. 95	4.53					
Galveston, Tex	51	56		. 91	. 91					
Palestine, Tex	50	42		. 35	. 60					
Corpus Christi, Tex	51	78		. 85		.25				
Brownsville, Tex Rio Grande City, Tex	55	98		. 42		. 10				
Rio Grande City, Tex	53	98		. 28	. 30					
Ohio Valley and Tennessee:	• 0"									
Memphis, Tenn	35	39		1.21	•••••	. 76				
Memphis, Tenn	35	3		1.14		.37				
Chattanooga, Tenn Knoxville, Tenn	39 36		14	1.49	·····					
Knoxville, Tenn	36 31	10	22	1.27						
Louisville, Ky	27	10		. 91	·····	.57				
Cincinnati Ohio	31	19	8	. 70	••••••	. 46 . 52				
Columbus Obio	27			.77		.68				
Pittsburgh, Pa		••••••		. 77 . 70		.65				
Laka Parion :	20	••••••	10	. 10	•••••	.00				
Oswego, N. Y	25		51	. 70		. 64				
Rochester, N. Y				.70		.14				
Oswego, N. Y	26	•••••	54	. 67		. 59				
	28		30	.77		. 63				
Cleveland, Ohio		·····	7	. 56		. 49				
Cleveland, Ohio			21			. 45				
Toledo, Ohio	26				•••••	. 43				
Detroit, Mich	26	•••••	28	. 49		. 47				
Port Huron, MichAlpena, Mich	22	1		. 49		. 35				
Alpena, Mich	19		8	.56	······	. 56				
Marquette, Mich	17 25			. 39	. 07	•••••••				
Grand Haven, Mich	20 20		13		••••••	.54				
Chicago III	24		•••••	. 49		. 48				
Grand Haven, Mich	11	27 85	•••••			. 47				
	11	80	•••••••	. 28	•••••••••••••••••••••••••••••••••••••••	. 28				
St. Paul. Minn	11	51		. 25		. 25				
St. Paul, Minn	15									
Dubuque, Iowa	18	27		. 42	······	. 42				
Davennort lows	19				•••••	. 21				
Des Moines, Iowa	18	43				.35				
Keokuk, Iowa	20	53		. 42		. 24				
Des Moines, Iowa Keokuk, Iowa Springfield, Ill	25	28		. 50	.10					
Cairo, III	31	25		. 89		. 53				
St. Louis. Mo	27	40				. 11				
Missouri Valley:	- :	_ :	1		1					
Springfield, Mo	30	34		. 51	•••••• _•	. 27				

Table of temperature and rainfall, week ended January 9, 1891—Continued.

Locality.	Mean ter	nperature Fahrenhe	in degrees it.	Rainfall in inches and he dredths.					
Docanty.	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency			
Missouri Valley—Continued.						!			
Kansas City, Mo	27	34		.27	; !	.0			
Leavenworth, Kans	25	38		.29	.04				
Concordia, Kans	24	55		.21	. 63				
Omaha, Nebr	19	68		. 18	. 17				
Valentine, Nebr		69							
Huron, Dak	8	123		.14		.1			
Sully, Fort, Dak	10					: . * * * * * * * * * * * * * * * * * * *			
Extreme Northwest:					į				
Moorhead, Minn	2	114							
Bismarck, Dak	5	122							
Buford, Fort, Dak	3	110		. 14	·····	.1			
Rocky Mountain Slope:	4	100	}	01	l	.2			
Assinniboine, Fort, Mont	4 17		•••••	.21 .28	·				
Helena, Mont		56		.21	· · · · · · · · · · · · · · · · · · ·				
Custer, Fort, Mont Salt Lake City, Utah	29	36	·	.35	, · · · · · · · · · · · · · · · · · · ·	\cdot .2			
Chevenne Wyo	25	0	0		.76				
North Platte, Nebr	20	61		.14	.20				
Denver. Colo	28		5	.14	.73				
Montroge	23		42	.14	2.60				
Dodge City, Kans	25	54		.14	. 56				
Abelena	38	60			. 55				
Sill, Fort, Ind. T	30	84			1.60				
Sill, Fort, Ind. T El Paso, Tex	41	14		.14	.10	 			
Santa Fé, N. Mex Pacific Coast:	27		21	.07	.50				
Olympia, Wash	38	0	0	1.99		1.0			
Portland, Oreg	39	14		1.72					
Roseburg, Oreg Red Bluff, Cal	41	0	0	1.54	0				
Red Bluff, Cal	45		14	1.12		1.0			
Sacramento, Cal	46	0	0	. 91		.5			
San Francisco, Cal	50	0	0	1.19					
Los Angeles, Cal	53		1	. 68					
San Diego, Cal	54		14	. 45					
Yuma, Ariz	53	•••••	28	.07	••••••	.0			
Table of dames as advan	e and rai	nfall mod	.1 J.J T.						
Table of temperatur		ijuu, wa	ek enaea Ja	nuary 10	, 1891.	ì			
New England States:		1	•		, 1891.				
New England States: Eastport, Me	20	8	•	.91		1			
New England States: Eastport, MePortland, Me	20 21	8 5	,	.91 .77	1.65				
New England States: Eastport, Me	20 21 26	8 5 35	•	.91 .77 .98	1.65	.3			
New England States: Eastport, Me	20 21 26	8 5	,	.91 .77	1.65	.1			
New England States: Eastport, Me	20 21 26 30	8 5 35	•	.91 .77 .98 .98	1.65	.8.			
New England States: Eastport, Me Portland, Me Boston, Mass Block Island, R.I Middle Atlantic States: Albany, N.Y	20 21 26 30	8 5 35 21	2	. 91 . 77 . 98 . 98	1.65	.8.			
New England States: Eastport, Me	20 21 26 30 24	8 5 35 21	2	.91 .77 .98 .98	.98	.3			
New England States: Eastport, Me	20 21 26 30 24 , 30 31	8 5 35 21 37 46	2	.91 .77 .98 .98 .66 .86	.98 .32	.0			
New England States: Eastport, Me	20 21 26 30 24 , 30 31	8 5 35 21 37 46 28	2	.91 .77 .98 .98 .66 .86 .77	.98 .32	.0			
New England States: Eastport, Me	20 21 26 30 24 , 30 31 31 33	8 5 35 21 37 46 28 31	2	.91 .77 .98 .98 .66 .86 .77 .84	.98	.00			
New England States: Eastport, Me	20 21 26 30 24 30 31 31 31 33 33	8 5 35 21 37 46 28	2	.91 .77 .98 .98 .66 .86 .77 .84	1.65 .98 .32	.00			
New England States: Eastport, Me	20 21 26 30 24 30 31 31 31 33 33	8 5 35 21 37 46 28 31 46	2	.91 .77 .98 .98 .66 .86 .77 .84	1.65 .98 .32	.00			
New England States: Eastport, Me	20 21 26 30 24 30 31 31 33 33 31 37 40	8 5 35 21 37 46 28 31 46 12 27	2	.91 .77 .98 .98 .66 .86 .77 .84 .70 .77 .98	.98 .32 .74 .71 .80	.00			
New England States: Eastport, Me	20 21 26 30 24 30 31 31 33 33 31 37 40	8 5 5 35 21 37 46 46 28 31 46 12 27	2	. 91 . 77 . 98 . 98 . 66 . 86 . 77 . 84 . 70 . 77 . 98 . 86	.98 .32 .74 .71 .80	.00 .2			
New England States: Eastport, Me. Portland, Me. Boston, Mass Block Island, R. I. Middle Atlantic States: Albany, N. Y. New York City. Philadelphia, Pa. Atlantic City, N. J. Baltimore, Md. Washington City. Lynchburg, Va. Norfolk, Va. South Atlantic States: Charlotte, N. C.	20 21 26 30 31 31 31 33 33 31 40 41	8 5 35 21 37 46 28 31 46 12 27	2	. 91 .77 .98 .98 .66 .86 .77 .84 .70 .77 .98 .86	.98 .32 .74 .71 .80	.1			
New England States: Eastport, Me	20 21 26 30 24 , 30 31 31 33 33 31 40 41 47 50	8 5 35 21 37 46 28 31 46 12 27	2 1 1 5	.91 .77 .98 .98 .66 .86 .77 .74 .70 .77 .98 .86	.98 .32 .74 .71 .80 .53 2.71 .34	.00			
New England States: Eastport, Me Portland, Me Boston, Mass Block Island, R. I Middle Atlantic States: Albany, N. Y. New York City Philadelphia, Pa Atlantic City, N. J. Baltimore, Md. Washington City Lynchburg, Va. Norfolk, Va. South Atlantic States: Charlotte, N. C. Wilmington, N. C. Charleston, S. C. Augusta, Ga.	20 21 26 30 24 30 31 31 33 33 340 41 47 56	8 5 35 21 21 37 46 28 31 46 12 27	2 2 1 5 3 1	.91 .777 .98 .98 .66 .86 .77 .84 .70 .77 .98 .86		.00 .2			
New England States: Eastport, Me	200 211 263 303 313 313 337 40 417 550 465	8 5 35 21 37 46 28 31 46 12 27	2 2 1 5 3 1 20	.91 .777 .98 .98 .98 .66 .86 .777 .84 .70 .777 .98 .86 .91 .93 .1.02		.00 .2			
New England States: Eastport, Me	200 211 265 300 311 331 331 377 40 41 477 555	8 5 35 21 37 46 28 31 46 12 27	1 5 3 1 20 15	.91 .777 .98 .98 .66 .86 .777 .84 .70 .777 .98 .86 .93 1.02 .777		.1			
New England States: Eastport, Me	200 211 266 300 31 31 33 31 33 37 40 41 47 50 46 55 70	8 5 35 21 37 46 28 31 46 12 27	2 2 1 5 3 1 20 15 28	.91 .777 .98 .98 .98 .66 .86 .777 .84 .70 .777 .98 .86 .91 .93 .1.02		.1			
New England States: Eastport, Me	200 211 2630 300 311 331 337 40 417 506 515 570	8 5 35 21 37 46 28 31 46 12 27	2 2 3 1 5 3 1 20 15 28	.91 .777 .98 .98 .66 .86 .777 .84 .70 .777 .98 .86 .93 1.02 .777	1.65 .98 .32 .74 .71 .80 .53 2.71 .34 1.00	.1			
New England States: Eastport, Me	200 211 263 303 313 313 313 317 40 417 550 461 555 70	8 5 35 21 37 46 28 31 46 12 27	1 5 3 1 20 15 28 23 30	.91 .777 .98 .98 .98 .66 .86 .77 .77 .98 .86 .91 .93 .1.02 .77 .49 .93		.1			
New England States: Eastport, Me	200 211 265 30 30 311 333 331 337 40 417 447 50 46 515 570 42 550	8 5 35 21 37 46 28 31 46 12 27	2 2 3 1 5 3 1 20 15 28 23 30 30 35	.91 .777 .988 .866 .866 .777 .844 .707 .98 .86 .91 .93 .1.02 .78 .77 .78 .77 .49	1.65 .98 .32 .74 .71 .80 .53 2.71 .34 1.00	.1			
New England States: Eastport, Me. Portland, Me. Boston, Mass. Block Island, R. I. Middle Atlantic States: Albany, N. Y. New York City. Philadelphia, Pa. Atlantic City, N. J. Baltimore, Md. Washington City Lynchburg, Va. Norfolk, Va. South Atlantic States: Charlotte, N. C. Wilmington, N. C. Charleston, S. C. Augusta, Ga. Savannah, Ga. Jacksonville, Fla. Key West, Fla. Gulf States: Atlanta, Ga. Pensacola, Fla. Mobile, Ala. Montgomery, Ala.	200 211 263 30 313 313 313 313 3140 417 550 465 551 557 70 42 522 547	8 5 35 21 37 46 28 31 46 12 27	1 5 3 1 1 20 15 28 23 30 35 28	.91 .777 .98 .98 .98 .66 .86 .777 .84 .70 .77 .98 .86 .91 .93 .1.02 .78 .77 .49 .40 .1.12 .1.12		.1			
New England States: Eastport, Me	200 211 265 30 30 311 331 37 40 417 477 555 70 42 550 43	8 5 35 21 37 46 28 31 46 12 27	2 2 3 1 5 3 1 20 15 28 23 30 35 28 20	.91 .777 .988 .86 .86 .777 .844 .707 .98 .86 .91 .93 .102 .777 .49 1.46 1.12 1.12 1.12		.0			
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Table of temperature and rainfall, week ended January 16, 1891—Continued.

Locality.	{	Fahrenhe	10.	Rainfall in inches and hundredths.						
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency				
Gulf States—Continued.										
Brownsville, Tex	56		0	. 47		.40				
Rio Grande City, Tex	55		28	. 28	1.70					
Ohio Valley and Tennessee:					i	i				
Memphis, Tenn	35	18		1.30		.59				
Nashville, Tenn	35 40	29		1.22 1.65						
Chattanooga, Tenn Knoxville, Tenn		16		1.33						
Louisville, Ky	31	41		.91	.13					
Indianapolis, Ind	26	33		.70						
Cincinnati, Ohio		18		.77		.07				
Columbus, Ohio		33 48		. 77	. 25					
Pittsburgh, Pa Lake Region:	21	40		.77		.03				
Oswego, N. Y	23		25	.70	.58	ĺ				
Rochester, N. Y			ľ	.76	1.13					
Buffalo, N. Y	24	11		. 63	. 26					
Erie, Pa	. 25	20		.77	.04					
Cleveland, Ohio	24	13		.56	.25					
Sandusky, Ohio	24 24	31 29		.49						
Toledo, Óhio Detroit, Mich	24	14								
Port Huron, Mich		23		.46						
Alpena, Mich		16								
Marquette, Mich	. 14	6			. 56					
Grand Haven, Mich	. 23	22		. 56		. 34				
Milwaukee. Wis	.) 17	47								
Chicago, IllDuluth, Minn	22	45 22			. 02					
Upper Mississippi Valley: St. Paul, Minn		42		. 28	.02	.21				
La Crosse, Wis		59								
Dubuque, Iowa	14	56		.42						
Davenport, Iowa	. 18	53		. 36						
Des Moines, Iowa		81								
Keokuk, Iowa	. 19	55								
Springfield, Ill	24	33 30		. 49						
Cairo, Ill St. Louis, Mo		40		91						
Missouri Valley:		10		.04						
Springfield, Mo	. 27	28		. 49	. 28					
Kansas City, Mo	. 24	30								
Leavenworth, Kans	. 22	50		. 28						
Concordia, Kans	19 15	49 73		. 27 . 14						
Omaha, Nebr Valentine, Nebr	12	100		.14						
Huron, Dak	3	110		.12						
Extreme Northwest:	1									
Moorhead, Minn	. 2	78		. 19	.08					
Bismarck, Dak	1	130		.13		. 18				
Buford, Fort, Dak	. 1	117		.14		.14				
Rocky Mountain Slope: Assinniboine, Fort, Mont	2	196		. 21		.21				
Helena, Mont		42		.35						
Custer, Fort, Mont	7	126		.21						
Salt Lake City, Utah	26		11	. 35		. 13				
Cheyenne, Wyo	. 23	.8		.04						
North Platte, Nebr	15	56		. 14						
Denver, Colo Pueblo, Colo,	24 26		26 58	.14						
Montrose, Colo	24		112	.14						
Sill, Fort, Ind. T	. 30	0	0	. 21	. 10					
Abilene, TexEl Paso, Tex	39		45	. 21	.71					
El Paso, Tex	43		70	. 14		.10				
Santa Fé, N. Mex	. 27		73	.11	0	. 02				
Pacific Coast:	42		96	. 19		. 10				
Spokane Falls, Wash	79	70		. 63	·	. 50				
Olympia, Wash	. 38		3	1.91						
Portland, Oreg	. 37	14		1.68		1.40				
Roseburg, Oreg Red Bluff, Cal	40	ļ	28	1.54		1.10				
Red Bluff, Cal	44	0	0	1.06						
Sacramento, Cal San Francisco, Cal	44 49	0	14	. 91 1. 14		. 91 1. 10				
Los Angeles, Cal	52	0	ŏ	.63						
San Diego, Cal	53		14	. 42		.40				
			28	.07						

FOREIGN.

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

SPECIAL REPORTS.

Sanitary Commission at Constantinople—Report of U.S. commissioner.

CONSTANTINOPLE, December 26, 1890.

SIR: I beg to inclose Report No. 13 of Doctor Zavitziano, representative of this legation on the Sanitary Commission of Constantinople.

I have the honor, etc., SOLOMON HIRSCH.

To the Hon. JAMES G. BLAINE, Secretary of State, Washington, D. C.

[Inclosure.]

Sanitary Report No. 13.

Cholera is continually spreading beyond the already mentioned localities. On the north we see it making its appearance at Marash, Keulek, and Yershin. We heard once that some deaths of cholera occurred at Malattia and Kharpaot, but this news has been contradicted. At Orfa on the northeast of Aleppo, cholera is continually raging, and the mortality by cholera is high for a place of 40,000 inhabitants. It is feared that cholera will again make its appearance at Diarbekir, where they have established a cordon against the travelers coming from Orfa.

Near Nezhne, at Yershin 5 deaths from cholera occurred. At Adana

there is an average of 4 deaths per day.

The climate of that country is mild, even the winter being hot. Since the 21st of November, 62 deaths occurred at Adana and 68 between Marash and Keulek.

From the first appearance of the epidemic in the vilayet of Aleppo

the official number of deaths is 2,113.

At Hama and Homs there are no fresh attacks since the 8th of December, but an outbreak of the epidemic occurred at Tripoli on the 11th instant, followed by 1 death, and since that day 44 deaths have occurred. Besides the 11 deaths at Clemesse, near Lataquie, no new cases have been noticed in that locality.

In my report, No. 9, I have written about a sickness which was raging at Benis-sheir in the Yemen. The board of health has received notice that that illness was cholera. But I can state nothing further

regarding it, having no details.

The health of the capital has nothing peculiar in its state except the scarlet fever, which is, as I have written in my last report, rather sporadic than epidemic. Small-pox and a few cases of typhoid fever are a daily occurrence. Several cases of congestion of the lungs, owing to the cold dampness of the season, exist.

SP. C. ZAVITZIANO.

TURKEY IN ASIA—Vessel sailing from cholera-infected district bound for the United States.—The United States consular agent at Aleppo, Syria, reports that the Italian bark Simpatia sailed on December 7, 1890, from Alexandretta, Syria, where cholera still prevails, bound for the port of New York.

BRAZIL—Para—Yellow fever, leprosy, and statement of mortality for December, 1890.—The United States consul, under date of January 3, 1891, transmits the following:

Para is the last port of call in Brazil for vessels bound for New York, and thus becomes most important as regards sanitary relations between the two countries.

American vessels call at Barbadoes en route for New York, and as that port is a health resort, the authorities there are rigidly exemplary in the enforcement of quarantine regulations; but a clean bill of health from that port should not in any way neutralize the force of the bill of health from Para.

As it is now midwinter in New York, the fear of contagion from Para yellow fever is diminished; however, the rules for issuing consular bills of health are supposed to remain the same the year round.

As already stated in previous health reports, the only statistics obtainable at this port, with regard to the state of the public health, are gathered from the list of burial permits in the public cemetery. That embraces only deaths occurring within the city limits. Of the number

of cases that recover nothing is known.

Statement of mortality in Para for the month of December, 1890.—Stillborn, or dying at birth, 23; pulmonary tuberculosis, 20; yellow fever, 7; pernicious fever, 6; American typhus, 6; remittent bilious fever, 1; intermittent fever, 8; malarial fever, 2; remittent fever, 2; fevers (unspecified), 10; malarial cachexy, 10; hepatitis, 8; convulsions, 11; enteritis, 10; beri-beri, 9; leprosy, 1; other diseases, 59. Total, 193.

It is stated by some of the physicians in Para that yellow fever, American typhus, pernicious fever, and remittent bilious fever are one and the same thing, and in the diagnosis of yellow fever they use these different names in order to not let the people become alarmed

by the thought that the disease is becoming epidemic.

I have grouped these four diseases together, and they give a total of twenty (20) deaths from yellow fever this month of December in this city, being just twice as many as occurred during the previous month of November, and 10½ per cent. of the entire mortality.

But the actual number of cases of yellow fever has been much greater; for with my comparatively limited opportunities for getting into sickrooms, I have met several cases of yellow fever this month who are now

convalescent.

The total of deaths from fevers and other diseases of malarial or kindred origin is 60, or about 31 per cent. of the mortality all told.

Beri-beri, which last January commenced the year with only 4 deaths in the month, and gradually increased its monthly rate, until in July alone it counted 25, has gradually fallen back until this month records only 9 deaths from beri-beri.

Leprosy scores one death this month. The total for the year is 21, or about 1½ per cent. of the entire mortality. When a leper dies of any other disease, to which they frequently succumb, because of their debilitated physical condition, the matter of their leprosy is not mentioned in the statistics.

Consequently, as leprosy is a life-long disease, or approximately so, it may be calculated that at least 1½ per cent. of the population are lepers.

These mingle freely with the rest of the population, while numbers of

lepers are found in business houses, various trades, and among the better classes of society.

There is not enough public sentiment in favor of the segregation of the lepers to make it possible for the Government to take any radical steps in the matter. Public men here acknowledge the necessity of such segregation, but are powerless to act in the case, for the opposition party, whichever party it might be, would certainly stir up public sympathy for the respectable people thus excluded from society, and against the party in power.

Canada—Three Rivers.—Month of December, 1890. Population, 8,284. Total deaths, 12. No deaths from contagious diseases were reported.

CHINA—Hong-Kong.—Month of October, 1890. Total deaths, 467, including phthisis 29 and beri-beri 15.

CUBA—Havana.—Week ended January 8, 1891. The United States sanitary inspector reports 131 deaths, including 3 from yellow fever (12 new cases), 2 from enteric fever, 1 from so-called pernicious fever, 1 from croup, and 2 from glanders.

Eight of the 12 new cases of yellow fever occurred at the military hospital.

ECUADOR—Guayaquil—Smallpox.—The United States consul-general reports 30 deaths from smallpox during the week ended November 28, 1890, and 28 deaths during the week ended December 5, 1890.

EGYPT.—Week ended December 4, 1890. The towns in upper and lower Egypt, including Gizeh and the Suez Canal, show a total of 757 deaths, including phthisis pulmonalis, 61; enteric fever, 16; smallpox, 1; diphtheria and croup, 5; and whooping cough, 8.

Week ended December 18, 1890. Total deaths, 840, including phthisis pulmonalis, 66; enteric fever, 13; measles, 1; diphtheria and croup, 9; and whooping cough, 10.

France—Rouen.—Month of November, 1890. Population, 106,496. Total deaths, 229, including phthisis pulmonalis, 34; enteric fever, 15; typhus fever, 23; measles, 27; croup, 6; and whooping cough, 7.

GREAT BRITAIN—England and Wales.—The deaths registered in 28 great towns of England and Wales during the week ended January 3 corresponded to an annual rate of 28.7 a thousand of the aggregate population, which is estimated at 9,715,559. The lowest rate was recorded in Leicester, viz, 16.2, and the highest in Preston, viz, 43.6 a thousand. Diphtheria caused 3 deaths in Manchester, and 2 each in Oldham and Leeds.

London.—Two thousand five hundred and sixteen deaths were registered during the week, including measles, 86; scarlet fever, 19; diphtheria, 25; whooping cough, 42; enteric fever, 17; and diarrhea and

dysentery, 20. The deaths from all causes corresponded to an annual rate of 29.7 a thousand. Diseases of the respiratory organs caused 927 deaths. In greater London 3,122 deaths were registered, corresponding to an annual rate of 28.1 a thousand of the population. In the "outer ring" the deaths included measles, 26; whooping cough, 11; diphtheria, 6; and fever, 5.

Newcastle-upon-Tyne.—Two weeks ended December 27, 1890. Population, 145,356. Total number of deaths, 4, including enteric fever, 1; scarlet fever, 1; and diphtheria, 2.

Ireland.—The average annual death rate, represented by the deaths registered during the week ended January 3, in the 16 principal town districts of Ireland, was 36.1 a thousand of the population. The lowest rate was recorded in Lisburn, viz, 19.3, and the highest in Lurgan, viz, 51.3 a thousand. In Dublin and suburbs 275 deaths were registered, including enteric fever, 7; measles, 2; and whooping cough, 2.

Scotland.—The deaths registered in eight principal towns during the week ended January 3 corresponded to an annual rate of 24.8 a thousand of the population, which is estimated at 1,345,563. The lowest mortality was recorded in Leith, viz, 14.6, and the highest in Glasgow, viz, 30.2 a thousand. The aggregate number of deaths registered from all causes was 643, including measles, 12; scarlet fever, 4; diphtheria, 6; whooping cough, 22; fever, 14; and diarrhoea, 7.

ITALY—Florence—Enteric fever.—The United States consul, under date of January 5, 1891, reports many cases of enteric fever in a mild form in the city. It is not epidemic in its character, but arises from local causes.

JAPAN—*Hiogo—Cholera*.—The United States consul sends the following report, dated December 13, 1890:

		Deaths.
Week ended November 22, 1890	. 5	3
29. 1890		1

MEXICO—Paso del Norte.—Month ended January 13, 1891. Population, 10,000. Total deaths, 19, including enteric fever 1 and diphtheria 1.

SWITZERLAND—Zurich.—Month of November, 1890. Population, 91,323. Total deaths, 139, including phthisis pulmonalis, 22, diphtheria and croup, 1; typhus fever, 1; and whooping cough, 2.

TURKEY—Constantinople—Smallpox.—Month of November, 1890. Total deaths, 778, including 63 from smallpox.

Turkey in Asia—Cholera.—The United States consul at Beirut, Syria, reports 140 cases of cholera in Tripoli, Syria, and 103 deaths therefrom, during the week ended December 22, 1890.

Abstract of foreign medical opinions and investigations regarding the Koch lymph.

Belgium—Middel-kerke.—At a meeting of the Academy of Medicine of Belgium, December 27, 1890, Doctor Casse reported the treatment by the Koch method of 34 children affected with peripheral tubercu-The doses administered did not exceed 5 milligrams. losis. cases there was general reaction, evidenced by increased temperature. Doses of 1 milligram induced, in some cases, a temperature of 40° while doses of 3 milligrams induced in others a temperature of only 37° and some tenths. Decreased temperature was also observed. variations occurred even where the general conditions were improved. Nausea, cephalalgia, delirium, and eruptions were observed by Doctor With regard to local reaction, the diseased part tumefied. the case of fistulas, the pus becomes serous and dries up. The injections should, therefore, be repeated every 3 days. Of 7 cases of Pott's disease, Doctor Casse reported that 3 showed improvement. Of 12 cases of coxalgia, all were progressing favorably; 3 were cured, at least for Of four cases of lupus, 1 could be reported cured, the others were improved. In 2 cases of scrofula, all the ocular symptoms (ulcers of the cornea, photophobia, kerato-conjunctivitis, and watering of the eyes), had disappeared. In conclusion, Doctor Casse stated his opinion that the Koch lymph, if not an absolute remedy for tuberculosis, possesses incontestable curative properties.

Doctor Crocq stated that he had observed only an aggravation of symptoms following injection of the lymph. In his opinion, the lymph is an agent of substitutive medication. It induces fever, of irregular duration, which causes congestion of the skin and internal organs, a congestion having no connection with tuberculous lesion, and occurring most readily in organs previously affected. The inflammation superinduced on that already existing may, if produced in the lungs or larynx,

cause the death of the patient.

GERMANY—Bonn.—Doctor Burkhart, of the Johannes Hospital, reports, under recent date, the treatment, by the Koch method, of 21 Of these 9 were cases of well-defined phthisis and 12 were in an advanced stage of tuberculosis. The first dose administered was 0.001 c. c. of the lymph. The quantity was increased at intervals of from 3 to 5 days until the dose of 0.003 was reached. In no case did it exceed 0.035. A notable reactionary symptom observed in cases of phthisis was a remarkable increase of cough and expectoration, which did not decrease with the other symptoms, but continued until the second and following injections. Only at a late period of the treatment could a decrease of cough and expectoration be noted. From the diagnostic point of view the fact that certain forms of phthisis show a want of receptivity toward the Koch remedy deserves consideration. advanced stages of consumption the remedy should be used with extreme caution, owing to the danger of asphyxia from swelling of the upper air passages.

BERLIN.—Doctor Hofmeier, of the Elizabeth Hospital, reports 189 injections practiced on 39 patients between November 22 and December 11, with results analogous to those reported from Berlin, Vienna, London, Paris, and other places. In no case did death ensue on inoculation.

At a meeting of the Berlin Medical Association, December 17, 1890, Doctor Fränkel stated that he commenced the use of the Koch treatment November 18 on 15 cases of pharyngeal tuberculosis, 7 cases of phthisis, without bronchial affection, and 5 cases of lupus. In most of the cases of tuberculosis, fever ensued, beginning five or ten hours after injection, quickly obtaining its maximum, and then declining. After the administration of the largest dose there was no access of fever. It is advisable to so graduate the dose that the fever shall not exceed 39°. nearly the temperature approaches the normal on the days when injection is not practiced the more favorable are the results likely to be. Antisepsis must be rigidly practiced in order to prevent the introduction of any microorganism by way of the puncture. The local effect of the treatment on the tubercular tissue Doctor Fränkel stated to have no analogy in science. A substance introduced under the skin passes into the circulation and produces visible effects at distant points. fact, considered alone, is of the highest value. The assertion made by Koch that his remedy attacks and destroys the tubercular tissue has so far been verified.

Defective graduation of the Koch syringe.

[From La Semaine Medicale, December 31, 1890.]

Doctor Dettweiler, director of the Falkenstein Sanatarium, draws attention, in a letter published in several German medical journals, to the defective graduation of the Koch syringe. In 5 syringes received from Berlin the division marked 10 did not correspond to 1 cubic centimeter of liquid. This defect of graduation was such that of 2 syringes filled with water as far as division 10, one contained 0. gram 70 centigrams of liquid, while the other contained 1. gram 30 centigrams.

MORTALITY TABLE, FOREIGN CITIES.

	Dec. 27. 5,758,500 Jan. 3. 5,758,500 Dec. 20. 2,260,945 Dec. 27. 2,260,945 Jan. 3. 2,260,945 Dec. 13. 800,120 Dec. 20. 613,463 Dec. 27. 613,463 Dec. 13. 570,534 Dec. 13. 570,534 Dec. 27. 545,678 Jan. 3. 545,678 Dec. 20. 469,459 Dec. 27. 469,459	from .	Deaths from—									
Ćities.	Week ended.	Estimated poption.	Total deaths fall causes.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
London	Dec. 27	5, 758, 500	2795				. .	9	16	37	108	
London			3122					13	20	38	112	
Paris			1175			2		14	3	34	13	9
Paris			1174			3		8	3	35	14	7
Paris			1280					15	2	39	9	9
Vienna			351			5		2		11	11	20
Liverpool	Dec. 20		316		. .		2	2	15	2		
Liverpool	Dec. 27		411				1	1	18	1		
Hamburg	Dec. 13		243					1	5	3		
Hamburg	Dec. 20		233					2	3	3		
Glasgow			297					2	3	4	i	
Glasgow			308					4		4		
Brussels			242			3		4				
Brussels			249			9		3				
Warsaw	Dec. 20	455, 852	254			6		1	9	11		
Rio de Janeiro	Dec. 13	450,000	271		1	7	2	3				
Buda Pesth	Dec. 24	422, 377	37				3	İ	5	19		
Rome	Nov. 15	417, 392	170				l	4		4	2	
Amsterdam	Dec. 20	415, 360	266					4		11	l	
Amsterdam	Dec. 27	415, 360	255					l ī	1	16		
Amsterdam	Jan. 3	415, 360	235					2	ļ <u>-</u>	8		
Lyons	Dec. 20		201					2		12	1	
Lyons	Dec. 27		207					ī		3		
Munich	Dec. 20		146					l		6		
Munich	Dec. 27		163							15	l	
Turin	Nov. 2		167					5		5	1	
Turin	Nov. 10		167					5		5		
Copenhagen	Dec. 6		122					l	3	7		
Copenhagen	Dec. 13		107					l	3	8	l	1
Copenhagen	Dec. 20		118	1					2	10	1	1

MORTALITY TABLE, FOREIGN CITIES—CONTINUED.

1			ula-	from.]	Deat	hs fi	om-	-		
Cities.	Week ended.	A CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR	Estimated popula- tion.	Total deaths f	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.		Whooping
eipzig	Dec. 2		305, 479	105					2	3	5	1	
eipzig	Dec. 2	7	305, 479	97						1	5		
ologne	Dec. 2 Dec. 2	20	280, 206 276, 300	167 133				1	4	3	15		l
Barcelona		20	272,000	223			4		8		4		
Barcelona	Jan.	2	. 272,000	357					26		16		
dinburgh		20	271, 135	127					1	1	1		
Idinburgh Idinburgh	Dec. 2 Jan.	3	271, 135 $271, 135$	174 117					7	2	1		
resden		20	269,000	106					í	3	10		
alermo		20	250,000	150					2		ĭ		
alermo	Dec. 2	7	250,000	120					2		2		
isbon	Nov. 1	5	242, 297	171			13	•••••	3				
Intwerp	Dec. 2 Dec. 2	27	232, 418 232, 248	151 96					1	1	2		
Bristol	Dec. 2	7	232, 248	137					î	1	1		1
Bristol	Jan.	3	232,248	136					2	11	4		:
Belfast		27	232, 222	126				1	7	1		1	
Belfast	Jan. Dec. 2	3	232, 222	144 129					4		1	1	j
RotterdamRotterdam	Jan.	27 3	203,472 $203,472$	75				•••••					
Pernambuco	Dec.	9	200,000	59			8						
Pernambuco		6	200,000	64			12						
rague		20	188, 992	123					3	1	5		
rague		3	188, 992 180, 645	118 93			1	3	4	1	3 1		
enoa		20	180, 645	109				4		1			
enoa		7	180, 645	121			1	1			1		1
enoa	Jan.	3	180,645	128				2					
rankfort-on-the-Main		20	179, 850	$\frac{72}{72}$		•••••	•••••		1	1	16		
rankfort-on-the-Main Ianover	Dec. 2 Dec. 2		179, 850 163, 000	54						2	13 5	i	
Ianover	Dec. 2		163,000	72							7	1	1
lonigsberg	Dec. 2	20	161, 200								4		J
onigsberg	Dec. 2		161, 200		ļ			ļ		•••••	2	3	
rieste	Dec. 2 Dec. 2		158, 054 158, 054	105 88				····			6 2	5	1
hent	Dec. 2		152, 395	82									1
hent	Dec. 2	27	152, 395	112					3				1
uremberg	Dec. 1		142, 403	80				 	1		8	ļ	ļ
uremberg	Dec. 2		142, 403	98			•••••	ļ	·····	3	7 5		
tuttgarttuttgart	Dec. 2 Jan.	3	139, 659 139, 659	38 40					·····	1	2	l .	
underland	Dec.	6	135,506	69					1	3	ĩ		
	Dec. 1	3	135, 506	61							ļ		١
underland	Dec. 2		135, 506	52				ļ. .	3	1			ļ
unchal	Nov. 2		133, 250 133, 250	15	•••••		3 2						
unchalunchal	Dec. 1	6	133, 250	19 21					"ï				
remen	Dec. 2		124, 940	59					2		2		
remen	Dec. 2		124, 940	43			2		<u>.</u>		2		ļ
anzig	Dec. 2		117, 206	7	•••••		•••••		3		1		
tettinl	Dec. 2 Dec. 2		116,000 116,000	48 66					1	2	3		
avre	Dec. 2		112,074	63					î		ĭ		I
avre	Dec. 2	7	112,074	78					4				ļ
ix-la-Chapelle	Dec. 2		111, 189	48									
ix-la-Chapelleatania	Dec. 2 Dec. 1		111, 189 109, 000	45 64			•••••						
atania	Dec. 2		109,000	43									
	Dec. 2	9	109,000	74									
refeld	Dec. 2		108,000	92									
eghorn	Dec. 2	8	103, 723	60					1	3			
othenburgothenburg	Dec. 2	7	100, 622 100, 622	36 31						2			
othenburg	Dec. 2		100, 622	32						2			ĺ
urich	Dec. 2	0	91, 323	29				3		2	9	2	
urieh	Dec. 2		91, 323	11			• • • • •	1			2		ļ
iogo	Nov. 2 Nov. 2	22	89, 363 89, 363	36 34	3			3					
	Dec. 2		80,000	30							2		
													1
annheim	Dec. 2 Dec. 2	7	80,000 79,971	28 47							3	2	

MORTALITY TABLE, FOREIGN CITIES—Continued.

		oula	from	Deaths from—								
Cities.	Week ended.	Estimated popula- tion.	Total deaths f all causes.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping
Messina	Jan. 3	79, 971	48			2				2		
Leith	Dec. 20	78, 538	23					1				
⊥eith ∟eith		78,538	25 22		•••••					1	•••••	
Mayence	Jan. 3 Dec. 20	78, 538 73, 271 73, 271	27					1		3		
Layence	Dec. 27	73, 271	27									
		61,708	48			8						
rapani Papani Iarsala	Dec. 20	43,095	7		i							
rapani	Dec. 27	43, 095 40, 131	. 8									
larsala	Dec. 20	40, 131	18							i		
Marsala Cape Town	Dec. 27 Dec. 9	40, 131 36, 000	16 24					1				
ane Town	Dec. 16	36,000	21					1				1
ape Town Juayaquil	Nov. 28	35,000	71			30		18				1
łuayaquil	Dec. 5	35,000	70									I
chiedam	Dec. 27	25,600	13			ţ						
chiedam	Jan. 3	25,600	10		•••••			ļ				
ardenasVera Cruz		25,000 23,800	10		;				•••••			
Hibraltar		28, 681	18 13		1	•••••						
Hibraltar	Dec. 28	23, 681	10					i*				
Hirgenti Hirgenti	Dec. 20	23, 547	13			١	. 1	1				
irgenti	Dec. 27	23, 547	16							1		ļ.,
icata	Dec. 20	19,000	11									
icata	Dec. 27	19,000	10									
Kingston, Can Kingston, Can	Jan. 2 Jan. 9	18, 264 18, 264 16, 000	18 2				ļ		•••••		• • • • • • • • • • • • • • • • • • • •	
artagena	Dec. 20	16,204	6		•••••							
Cartagena	Dec. 27	16,000	8									
Natamoras	Ton 3	16,000	5									
tio Grande do Sul tio Grande do Sul Intigua	Nov. 29	16,000	18			·						١.,
lio Grande do Sul	Dec. 6	16,000	17				·····					
Intigua Iamilton, Bermuda	Dec. 27 Dec. 31	15, 847 15, 700	10 3	·····								
Cape Haytien	Dec. 6	15, 700 15, 000	6				ļ					
Cape Haytien	Dec. 13	15,000	8									1
Cape Haytien	Dec. 20	15,000 15,000	8							1		١
lana Harrisan	Dan 07	15,000	5							ļ		١
St. Thomas, W. I. St. Thomas, W. I. St. Thomas, W. I.	Nov. 28	15,000	46		•••••		·····					
t Thomas, W.I	Dec. 5 Dec. 12	15,000 15,000	46 51									
St. Thomas, W.I	Dec. 19	15,000	44					1				
Hushing	Dec. 27	13 200	6									
Flushing	Jan. 3	13, 200 10, 340 10, 340	10									1::
st. Thomas, W. I. Flushing Flushing Queenstown	Dec. 20	10, 340	7	1		i	1	1	·	1	1	1
lueenstown	Dec. 27	10, 340	3				¦				ļ	
QueenstownQueenstown	Jan. 3	10, 340	4					·····				ŀ··
Juelnh	Jan. 10 Jan. 11	10, 340 10, 173	5 2	•••••								
Žuelph Puerto Cabello	Dec. 31	10,000	12									
Puerto Cabello	Jan. 7	10,000	ĩĩ									1
rampico	Dec. 6	9,000	9					ļ				
Tuxpan Tuxpan	Dec. 20	9,000	10					·				-
Chatham, Ont	Dec. 27 Jan. 10	9,000 8,730	15									
a Guayra	Jan. 10 Jan. 3	7,428	4		•••••	•••••	•••••	1				
Port Sarnia	Jan. 10	6, 200	i	1	1			į.	1	!	1	
'urk's Islands	Oct. 29	5,000	8						ļ <u>.</u>			Ι
Turk's Islands	Nov. 5	5,000	6									١.,
Turk's Islands		5,000	7 7		•••••		ļ		ļ			١
Turk's Islands Hifton	Nov. 19	5,000	7	1					1		1	
Amherstburg	Jan. 10 Jan. 6	3,500 3,100	1 3		•••••	• • • • • • • • • • • • • • • • • • • •						
Prescott, Ont	Jan. 1	2, 988	2									1
Prescott, Ont	Jan. 8	2,988	1						1			1.
Puntarenas	Oct. 4	2,100	6				1	.	1		.	ļ.,
Puntarenas	Oct. 18	2,100	6						1			
Puntarenas	Nov. 29	2,100	3				١					
Puntarenas	Dec. 6	2,100	2	1	i .	·	J	1	1	5	1	1

Official: JOHN B. HAMILTON,
Supervising Surgeon-General, Marine-Hospital Service.