

ABSTRACT OF SANITARY REPORTS.

VOL. V. WASHINGTON, D. C., NOVEMBER 21, 1890. No. 47.

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UNITED STATES.

SPECIAL REPORTS.

Cobra venom not a cure for cholera.

The experiments that have been made in the hygienic laboratory of this service, at New York, by Assistant-Surgeon Kinyoun, on the effects of the cobra venom as a therapeutic agent in the treatment of cholera, have given the following results:

1. Cobra venom is germicidal to the cholera spirillum in a $\frac{1}{4}$ per cent. solution, but in no way affects the albumose of cholera.
2. It does not, in any strength, prevent the coagulation of the blood.
3. When the albumose of cholera and cobra venom are administered together, or the albumose followed by the cobra venom, the toxic effects of cholera are intensified.

Prevention of the importation of horses and cattle into Florida from districts infected with glanders.

Dr. Joseph Y. Porter, State health officer of Florida, under date of November 11, 1890, has issued a circular prohibiting the importation into the State of horses and cattle from Texas, and from all points west of the Mississippi and South of the Arkansas Rivers, until such time as the State health authorities of Texas and the United States shall have publicly declared that glanders shall have ceased to exist in those localities.

Importation of Spanish rags.

The Pennsylvania State board of health, at the meeting held at Harrisburg, Pa., November 13, 1890, adopted the following resolution:

Resolved, That the State board of health of Pennsylvania recommends to the health authorities of all ports of entry in the Commonwealth the adoption of a regulation forbidding, for a period of one year from the present time, the importation of rags from any Spanish port, or of rags which there is good reason to suppose have been collected in Spain.

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

ALABAMA—*Mobile*.—Month of October, 1890. Population, 40,000. Total deaths, 94, including phthisis pulmonalis, 12; enteric fever, 1; diphtheria, 1; and croup, 3.

CALIFORNIA.—Month of October, 1890. Reports to the State board of health from 80 cities and towns, with an estimated population of 754,639, show a total of 1,016 deaths, which is an increase over the preceding month. The monthly report says:

Reports received from eighty-six localities, in different parts of the State, indicate an increase of sickness in most of them, especially in those diseases affecting the respiratory system. This might have been expected, as these diseases are greatly influenced by the mean temperature. They increase in prevalence as the temperature falls, and diminish as it rises. During the month of October the temperature was generally higher than normal during the earlier part of the month, but later there was a rapid fall, in some places so marked as to produce frost. This change seemed at once to determine an increase of pneumonia, bronchitis, and a condition of pulmonary affection approximating very closely to la grippe, without inducing the severe debilitating effect coincident with that disease.

Oakland.—Month of October, 1890. Population, 60,000. Total deaths, 57, including phthisis pulmonalis, 2; enteric fever, 3; scarlet fever, 1; and whooping-cough, 2.

Sacramento.—Month of October, 1890. Population, 30,000. Total deaths, 37, including phthisis pulmonalis, 1; diphtheria, 3; croup, 1; and measles, 1.

San Francisco.—Month of October, 1890. Population, 300,000. Total deaths, 540, including phthisis pulmonalis, 84; enteric fever, 21; diphtheria, 20; croup, 13; and whooping-cough, 1.

ILLINOIS—*Chicago*.—Month of October, 1890. Population, 1,100,000. Total deaths, 1,453, including phthisis pulmonalis, 138; enteric fever, 72; diphtheria, 60; scarlet fever, 11; croup, 32; measles, 5; and whooping-cough, 10.

IOWA—*Davenport*.—Month of October, 1890. Population, 28,500. Total deaths, 34, including phthisis pulmonalis 1 and diphtheria 3.

Dubuque.—Month of October, 1890. Population, 35,000. Total deaths, 40, including enteric fever 2 and diphtheria and croup 6.

MASSACHUSETTS—*Worcester*.—Month of October, 1890. Population, 85,000. Total deaths, 84, including phthisis pulmonalis, 10; enteric fever, 4; and croup, 1.

MICHIGAN.—Month of October, 1890. Reports from observers, compared with the preceding month, indicate that inflammation of brain, measles, scarlet fever, membranous croup, pneumonia, enteric fever,

diphtheria, and inflammation of bowels increased, and that cholera infantum, cholera morbus, dysentery, and whooping-cough decreased in prevalence.

Compared with the average for the month of October in the four years 1886-1889, influenza, measles, and pleuritis were more prevalent, and whooping-cough, typho-malarial fever, puerperal fever, cholera infantum, inflammation of bowels, cerebro-spinal meningitis, and dysentery were less prevalent in October, 1890.

Including reports by regular observers and others, diphtheria was reported present in Michigan, in the month of October, 1890, at 55 places, scarlet fever at 79 places, typhoid fever at 96 places, and measles at 18 places.

Reports from all sources show diphtheria reported at two places less, scarlet fever at 25 places more, and typhoid fever at 23 places more in the month of October, 1890, than in the preceding month. Measles was reported at the same number of places as in the preceding month.

Week ended November 8, 1890. Reports to the State board of health, Lansing, from 61 observers, indicate that cholera infantum, puerperal fever, inflammation of kidney, membranous croup, and pleuritis increased, and that cerebro-spinal meningitis, measles, whooping-cough, typhoid fever, typho-malarial fever, cholera morbus, and diarrhœa decreased in area of prevalence.

Diphtheria was reported at 29 places, scarlet fever at 31 places, enteric fever at 30 places, and measles at 10 places.

MINNESOTA—*Minneapolis*.—Month of October, 1890. Population, 164,738. Total deaths, 216, including phthisis pulmonalis, 16; enteric fever, 14; diphtheria, 35; and scarlet fever, 2.

Winona.—Month of October, 1890. Population, 19,000. Total deaths, 16, including diphtheria 4 and membranous croup 3.

NEW YORK—*Rochester*.—Month of October, 1890. Population, 138,327. Total deaths, 169, including phthisis pulmonalis, 18; enteric fever, 7; diphtheria, 2; croup, 6; and whooping-cough, 1.

NORTH CAROLINA.—Month of October, 1890. Reports to the State board of health from 13 cities and towns, having an aggregate population of 104,426, show a total of 148 deaths, including phthisis pulmonalis, 21; enteric fever, 6; diphtheria, 3; and measles, 1.

PENNSYLVANIA—*Williamsport*.—Month of October, 1890. Total deaths, 17, including 1 from enteric fever.

RHODE ISLAND—*Newport*.—Month of October, 1890. Population, 20,000. Total deaths, 26, including phthisis pulmonalis, 3; diphtheria, 4; and membranous croup, 1.

Table of temperature and rain-fall, week ended November 14, 1890.

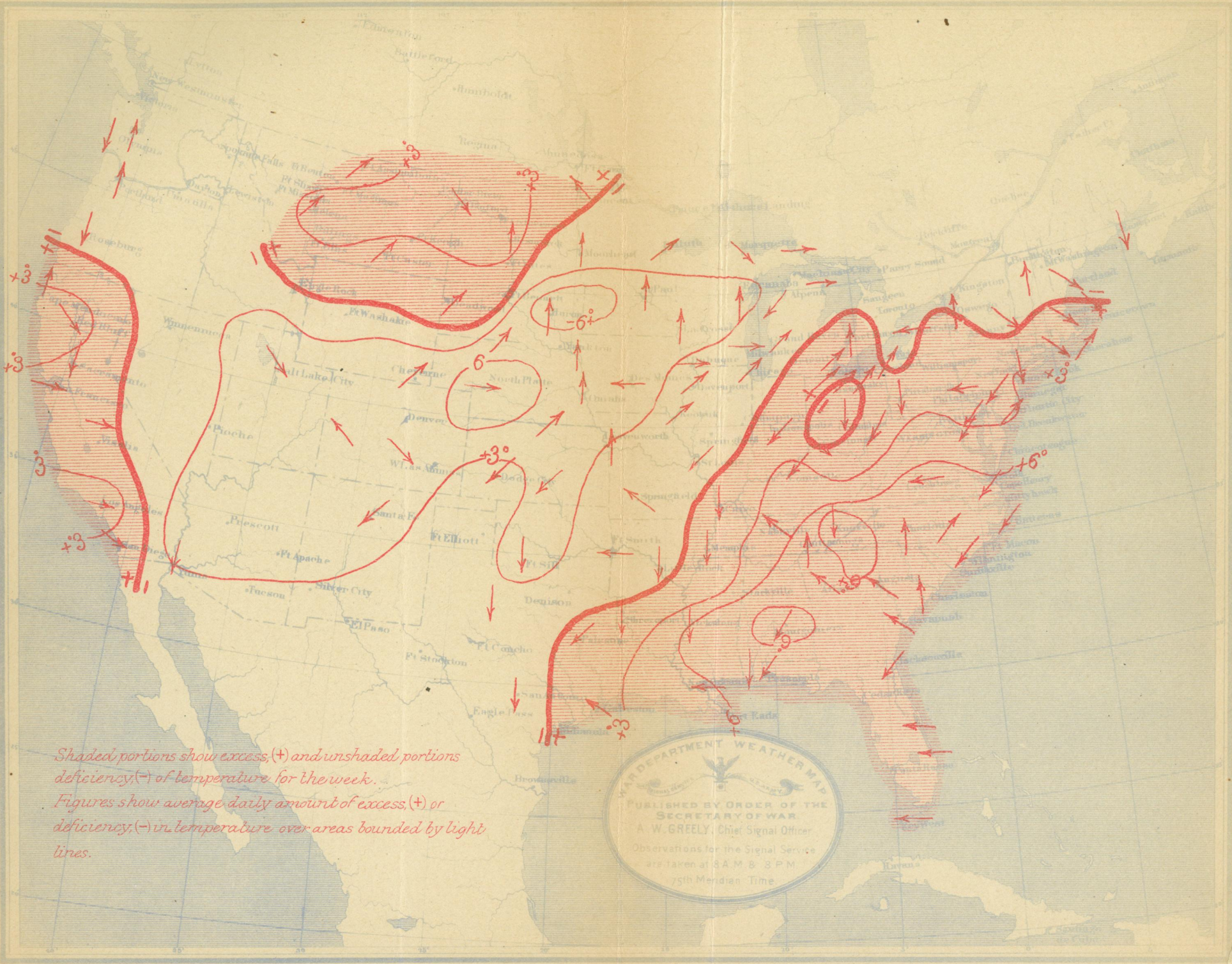
[Received from War Department, Signal Office.]

Locality.	Mean temperature in degrees Fahrenheit.			Rain-fall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
New England States:						
Eastport, Me.....	40		11	1.11		.67
Portland, Me.....	39		3	.89		.87
Boston, Mass.....	44	7		1.17		1.03
Block Island, R. I.....	47	8		.98		.72
Middle Atlantic States:						
Albany, N. Y.....	43		6	.65		.59
New York, N. Y.....	46	26		.82		.38
Philadelphia, Pa.....	48	20		.76		.28
Atlantic City, N. J.....	49	18		.85		.57
Baltimore, Md.....	49	17		.74		.31
Washington, D. C.....	48	30		.68		.17
Lynchburg, Va.....	50	55		.79		.77
Norfolk, Va.....	58	45		.78		.77
South Atlantic States:						
Charlotte, N. C.....	56	48		.92		.72
Wilmington, N. C.....	58	43		.61		.25
Charleston, S. C.....	60	59		.72		.32
Savannah, Ga.....	60	53		.53		.07
Jacksonville, Fla.....	64	53		.65	.88	
Key West, Fla.....	75	4		.52	.50	
Gulf States:						
Atlanta, Ga.....	57	59		1.10		1.10
Pensacola, Fla.....	62	42		1.19		.70
Mobile, Ala.....	61	46		1.08		1.08
Montgomery, Ala.....	58	66		.88		.88
Vicksburg, Miss.....	59	44		1.30		1.20
New Orleans, La.....	63	39		1.21		1.21
Shreveport, La.....	58	2		1.12	.34	
Fort Smith, Ark.....	53		2	.70	1.99	
Little Rock, Ark.....	56		19	1.11	2.26	
Palestine, Tex.....	59	2		1.05		1.05
Galveston, Tex.....	65	22		1.13		1.06
San Antonio, Tex.....	62		4	.37	.31	
Corpus Christi, Tex.....	65	8		.70		.64
Ohio Valley and Tennessee:						
Memphis, Tenn.....	54	12		1.10	.36	
Nashville, Tenn.....	52	33		.91		.65
Chattanooga, Tenn.....	56	58		1.16		1.16
Knoxville, Tenn.....	50	74		1.05		1.05
Louisville, Ky.....	50	22		.91	1.23	
Indianapolis, Ind.....	45	9		.85		.59
Cincinnati, Ohio.....	49		4	.75	.57	
Columbus, Ohio.....	48		14	.79	.16	
Pittsburgh, Pa.....	46	15		.61		.17
Lake Region:						
Oswego, N. Y.....	43		23	.76	.01	
Rochester, N. Y.....	41	5		.66		.01
Buffalo, N. Y.....	42	2		.83	.24	
Erie, Pa.....	45		13	1.10	.22	
Cleveland, Ohio.....	44	12		.65	.55	
Sandusky, Ohio.....	46		3	.76	.17	
Toledo, Ohio.....	44	15		.67	.23	
Detroit, Mich.....	42	11		.57		.14
Port Huron, Mich.....	41	6		.63		.02
Alpena, Mich.....	37		3	.67	.17	
Marquette, Mich.....	37		17	.60	.14	
Grand Haven, Mich.....	42		8	.73		.12
Milwaukee, Wis.....	40	2		.48	.60	
Chicago, Ill.....	43		12	.64		.26
Duluth, Minn.....	34		20	.42		.10
Upper Mississippi Valley:						
St. Paul, Minn.....	35		40	.32	.04	
La Crosse, Wis.....	39		33	.43		.07
Dubuque, Iowa.....	40		16	.51	.75	
Davenport, Iowa.....	42		14	.46	.14	
Des Moines, Iowa.....	41		36	.54		.02
Keokuk, Iowa.....	43		14	.46	.30	
Springfield, Ill.....	48		31	.71	.08	
St. Louis, Mo.....	48		20	.62	.50	
Missouri Valley:						
Kansas City, Mo.....	45		21	.56	.55	
Springfield, Mo.....	47		18	.49	.79	
Concordia, Kan.....	44		35	.21	.57	

Table of temperature and rain-fall, week ended November 14, 1890—Continued.

Locality.	Mean temperature in degrees Fahrenheit.			Rain-fall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Missouri Valley—Continued.						
Omaha, Nebr.....	40		27	.30	.34	
Yankton, Dak.....	36		28	.16	.34	
Valentine, Nebr.....	36		27	.07	.83	
Huron, Dak.....	32		53	.14	.22	
Extreme Northwest:						
Moorhead, Minn.....	28		2	.21	.10	
Saint Vincent, Minn.....	26	15		.14		.14
Bismarck, Dak.....	30	25		.18		.08
Buford, Fort, Dak.....	28	27		.10		.10
Rocky Mountain Slope:						
Assiniboine, Fort, Mont.....	33	12		.21		.21
Helena, Mont.....	30	31		.14	0	0
Rapid City, Dak.....	35	1			.09	.13
Salt Lake City, Utah.....	40		23	.38		.38
Cheyenne, Wyo.....	34		31	.07	.38	
North Platte, Nebr.....	37		64	.09	.33	
Dodge City, Kans.....	42		5	.14	.09	
Sill, Fort, Ind. T.....	51		32	.41	1.09	
Santa Fe, N. Mex.....	37		7		.20	.97
Pacific Coast:						
Portland, Oreg.....	46		12	1.58		1.49
Roseburg, Oreg.....	46		1			
Red Bluff, Cal.....	54	30		.82		.82
Sacramento, Cal.....	53	11		.49		.49
San Francisco, Cal.....	56	19		.70		.70
Los Angeles, Cal.....	58	27		.34		.34
San Diego, Cal.....	59	7		.17		.15
Yuma, Ariz.....	62		21	.04		.04

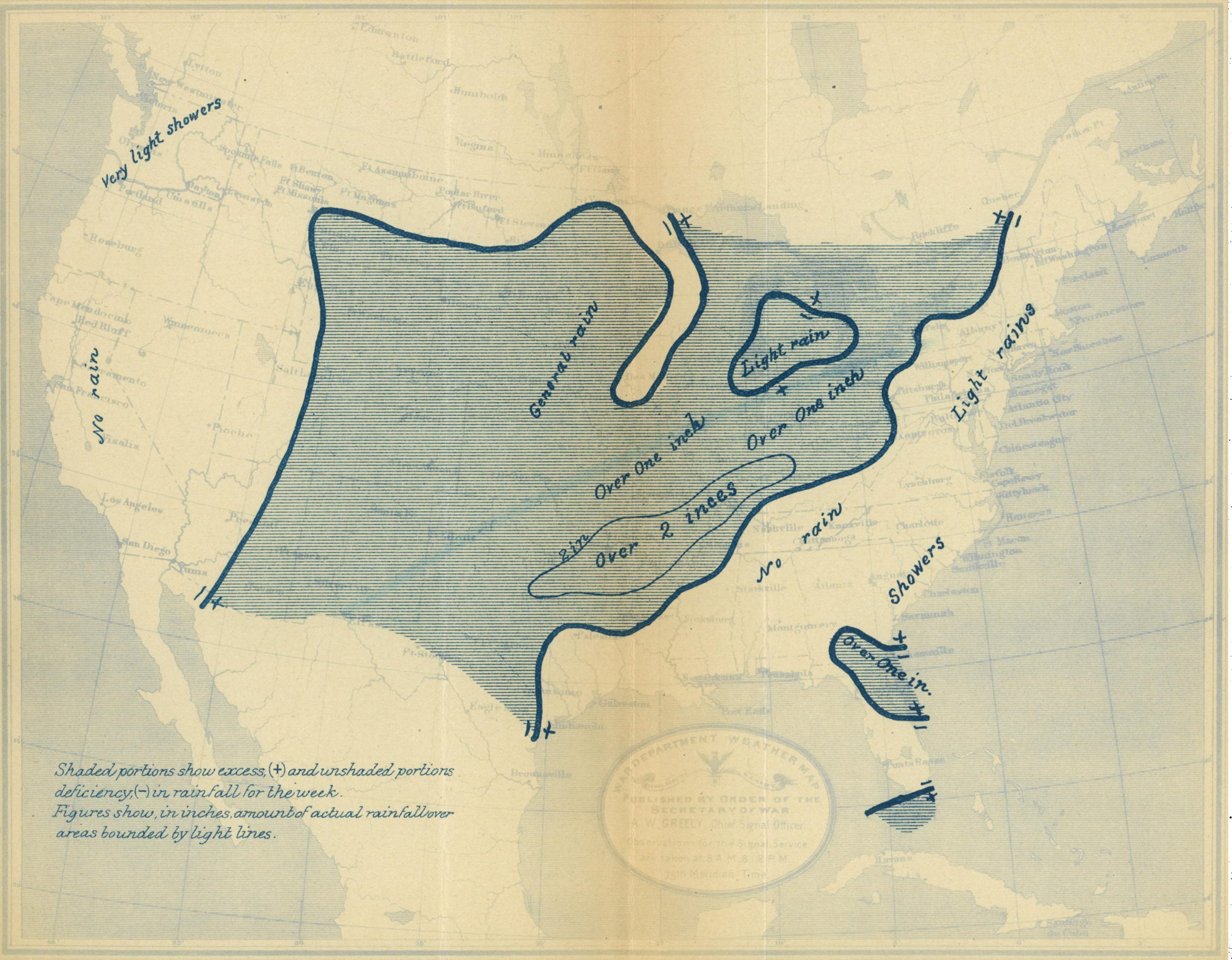
*Temperature and Prevailing Direction of Wind, week ending
November 14th 1890.*



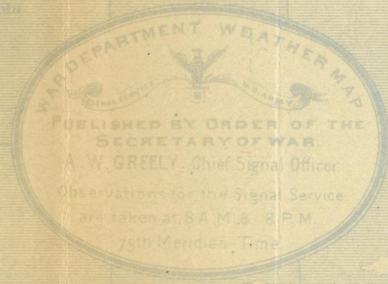
*Shaded portions show excess, (+) and unshaded portions
deficiency, (-) of temperature for the week.
Figures show average daily amount of excess, (+) or
deficiency, (-) in temperature over areas bounded by light
lines.*

Rainfall, week ending November 14th 1890.

Form 106 F



Shaded portions show excess (+) and unshaded portions deficiency (-) in rainfall for the week.
 Figures show, in inches, amount of actual rainfall over areas bounded by light lines.



F O R E I G N .

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

GREAT BRITAIN—*England and Wales.*—The deaths registered in 28 great towns of England and Wales during the week ended November 1, corresponded to an annual rate of 22.1 a thousand of the aggregate population, which is estimated at 9,715,559. The lowest rate was recorded in Derby, viz, 14.5, and the highest in Manchester, viz, 31.7 a thousand. Diphtheria caused 5 deaths in Salford, 2 in Manchester, 5 in Liverpool.

London.—One thousand eight hundred and sixteen deaths were registered during the week, including measles, 95; scarlet fever, 16; diphtheria, 26; whooping-cough, 19; enteric fever, 26; and diarrhoea and dysentery, 43. The deaths from all causes corresponded to an annual rate of 21.4 a thousand. In greater London 2,239 deaths were registered, corresponding to an annual rate of 20.3 a thousand of the population. In the "outer ring" the deaths included measles, 47; diphtheria, 14; and scarlet fever, 6.

Newcastle-upon-Tyne.—Two weeks ended November 1, 1890. Population, 163,000. Total deaths, 156, including 3 from diphtheria.

Ireland.—The average annual death rate, represented by the deaths registered during the week ended November 1, in the 16 principal town districts of Ireland, was 19.2 a thousand of the population. The lowest rate was recorded in Newry, viz, 7.0, and the highest in Galway, viz, 30.3 a thousand. In Dublin and suburbs 171 deaths were registered, including typhus, 4; enteric fever, 2; diphtheria, 1; measles, 1; and whooping-cough, 3.

GIBRALTAR—*Quarantine.*—The following notice has been received from the United States consul, dated October 27, 1890:

His excellency the governor, with the advice and upon the request of the board of health, has prohibited the entrance into Gibraltar of any person who has resided or who has been within twenty-one days of his or her arrival at the town of Murcia, in the Kingdom of Spain, which has been declared an infected place.

By command:

CAVENDISH BOYLE,
Colonial Secretary.

CANADA—*Sherbrooke.*—Month of September, 1890. Population, 19,000. Total deaths, 20. No deaths reported from contagious diseases.

FRANCE—*Rheims.*—Month of September, 1890. Population, 97,903. Total deaths, 217; including enteric fever, 2; diphtheria, 4; measles, 2; and whooping-cough, 2.

Rouen.—Month of September, 1890. Population, 107,163. Total deaths, 253, including phthisis pulmonalis, 40; typhus fever, 15; measles, 8; croup, 5; and whooping-cough, 8.

SPAIN—*Cholera.*—Under date of October 24, 1890, the United States chargé d'affaires at Madrid, through the Secretary of State, reports 5,493 cases of cholera and 2,827 deaths therefrom, in all Spain, excepting Barcelona, from the outbreak of the disease to and including October 23, 1890. There have been 20 deaths reported in Barcelona for the same period, and Morocco has just placed a quarantine of twenty days on all persons from that port.

SWITZERLAND—*Zurich.*—Month of September, 1890. Population, 91,323. Total deaths, 97, including phthisis pulmonalis, 11; typhus fever, 3; diphtheria and croup, 1; and whooping-cough, 2.

ITALY—*Bologna.*—Month of September, 1890. Population, 139,854. Total deaths, 317, including typhus fever, 5; enteric fever, 6; scarlet fever, 1; and diphtheria, 4.

Florence.—Month of August, 1890. Population, 181,976. Total deaths, 316, including enteric fever, 9; and diphtheria, 4.

Milan.—Month of September, 1890. Population, 399,081. Total deaths, 759, including enteric fever 38 and diphtheria 26.

ALEPPO—*Cholera.*—The United States consul at Beirut transmits the following, under date of October 6, 1890:

In continuation of my previous dispatches upon cholera at Aleppo, Syria, I now have the honor to inform your Department that the epidemic is still exercising its ravages in the above-mentioned city.

The official *Gazette* of the vilayet of Beirut has published in its last issue, of the 4th instant, the following statistical table in relation to the number of cases and deaths of cholera which occurred between the 26th ultimo and the 2d instant, inclusive:

	<i>Cases.</i>	<i>Deaths.</i>
September 26.....	9	4
27.....	22	9
28.....	15	8
29.....	10	8
30.....	5	8
October 1.....	7	7
2.....	8	10
Total.....	76	54

From the above figures it will be observed that the plague has comparatively assumed a more serious character within the past few days.

I beg also to acquaint the Department of State with the latest intelligence, received under date of October 2, 1890, from the health office, at Beirut, to the effect that "since the 1st instant the quarantine against arrivals from the gulf of Alexandretta was extended up to Mercine, in the north, and in the south as far as Tripoli (Syria), both exclusive."

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated popula- tion.	Total deaths from all causes.	Deaths from—								
				Cholera.	Yellow fever.	Small-pox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping-cough.
London.....	Oct. 25.....	5,758,500	2,061					15	32	33	105	
Paris.....	Oct. 25.....	2,260,945	914					15	5	23	10	
Liverpool.....	Oct. 25.....	613,453	242					2	18	1		
Glasgow.....	Oct. 25.....	545,678	248					5	1			
Warsaw.....	Oct. 18.....	455,852	214			7		2	6	18		
Copenhagen.....	Oct. 18.....	312,387	114					1	1	2		
Leipsic.....	Oct. 25.....	305,479	429					1	4	4	2	
Cologne.....	Oct. 18.....	285,403	122					1	4	3		
Odessa.....	Oct. 4.....	276,300	161					5	15			
Odessa.....	Oct. 11.....	276,300	179					5	14		3	
Odessa.....	Oct. 18.....	276,300	162					3	16		1	
Edinburgh.....	Oct. 25.....	271,135	91					2				
Dresden.....	Oct. 18.....	269,000	99							4		
Lisbon.....	Sept. 20.....	242,297	164					2		2		
Lisbon.....	Sept. 27.....	242,297	142					1				
Lisbon.....	Oct. 4.....	242,297	174			10		2				
Antwerp.....	Oct. 25.....	232,418	96			12		2				
Belfast.....	Oct. 18.....	232,222	99					1	9	4	1	
Belfast.....	Oct. 25.....	232,222	102					2	3			
Genoa.....	Oct. 24.....	180,538	68					3			1	
Frankfort-on-the-Main.....	Oct. 18.....	170,733	51								4	
Trieste.....	Oct. 18.....	158,054	66								2	
Venice.....	Oct. 18.....	156,800	87			9		5	1			
Hanover.....	Oct. 18.....	155,000	56									
Ghent.....	Oct. 25.....	152,394	65							5		
Sunderland.....	Oct. 18.....	136,506	67					2		3		
Sunderland.....	Oct. 25.....	136,506	72					2				
Sunderland.....	Nov. 1.....	136,506	46					1	1	2		
Stuttgart.....	Oct. 25.....	125,510	32								1	
Bremen.....	Oct. 18.....	125,000	38	1								
Havre.....	Oct. 25.....	112,074	50					4				
Aix-la-Chapelle.....	Oct. 26.....	110,888	57						4			
Crefeld.....	Oct. 25.....	108,000	61									
Leghorn.....	Oct. 26.....	103,723	37									
Rheims.....	Nov. 1.....	97,903	37					1	1			
Zurich.....	Oct. 18.....	91,323	4								2	
Zurich.....	Oct. 25.....	91,323	11					1				
Zurich.....	Oct. 25.....	91,323	11					3				
Messina.....	Oct. 25.....	79,971	24						1		2	
Leith.....	Oct. 25.....	78,538	29					1				
Mayence.....	Oct. 18.....	65,802	21					1		1		
Cienfuegos.....	Nov. 2.....	41,191	18									
Cardenas.....	Nov. 3.....	25,000	13									
Vera Cruz.....	Oct. 30.....	23,800	35									
Gibraltar.....	Oct. 26.....	23,681	10		2							
Dumferline.....	Oct. 18.....	20,000	9					1				
Victoria.....	Oct. 25.....	18,500	10						6			
Kingston, Can.....	Nov. 7.....	18,000	4									
Matamoras.....	Nov. 1.....	16,000	7									
Port Stanley and St. Thomas.....	Nov. 1.....	11,000	5									
Tuxpan.....	Oct. 25.....	9,000	6									
La Guayra.....	Oct. 25.....	7,428	5									
Amherstburg.....	Nov. 6.....	3,000	2									
Inagua.....	Sept. 27.....	1,300	1									

JOHN B. HAMILTON,

Supervising Surgeon-General, Marine-Hospital Service.