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MEASURES TO PREVENT TYPHUS FEVER.

INSTRUCTIONS ISSUED TO SURGEONS OF THE CHICAGO, ROCK ISLAND & PACIFIC RAILWAY COMPANY.

The following is the text of a letter which has been sent to all local surgeons of the Chicago, Rock Island & Pacific Railway Co. by Dr. Samuel C. Plummer, chief surgeon of the company:

Typhus fever having occurred in several localities in this section of the country; it is particularly important to enforce prophylactic measures at once for preventing the disease from gaining a foothold in our camps and among section laborers living in bunk cars in order that the health of our employees may be protected and the work of the railroad carried on without hindrance. You are therefore requested to enforce the under-mentioned rules without delay and to report weekly to this office the extent of your compliance therewith.

Superintendents, division engineers, master carpenters, roadmasters, bridge and building foremen, water-service foremen, and section and extra gang foremen have been instructed to heartily assist you in carrying out these measures.

RULES.

1. All washable clothing and bedding of laborers and their families shall be boiled in salt water once each week for at least thirty minutes, using two tablespoonfuls of salt to the gallon of water. The purpose of this is to kill lice and their eggs.

2. Once each week all clothing and bedding which is not washable shall be thoroughly shaken and the seams carefully cleaned in order to remove lice.

3. Once each week all bunks, chairs, boxes, and other containers must be thoroughly cleaned, using kerosene oil wherever practicable.

4. Once each week the floors of bunk-house cars and of other living quarters must be scrubbed with hot soapy water and kerosene, adding one pint of kerosene to each gallon of water and applying the mixture with a good broom.

5. Lousy heads and bodies of laborers and their families must be treated with kerosene and repeated weekly until lice and nits have been removed.

6. All cases of sickness among these living in camps or bunk cars, whatever their nature, must be reported to and examined by you and you will advise this office immediately by wire of any case in which you may suspect typhus fever. In such suspicious cases you will immediately take additional precautions to prevent the possible spread of the infection by body lice. The bodies of all fever patients should be carefully inspected by you for petechial rashes. You will forward a weekly report of any and all cases of fever examined by you, giving the names and diagnoses. In case of deaths the cause thereof and the duration of the illness will be reported. You will also include in these weekly reports your success in the enforcement of the measures.

7. You will examine all persons, especially Mexicans and their families, whom section bosses and other employing officials may wish to engage as laborers, in order to rid them and their luggage of lice and nits and in order to detect typhus fever convalescents. Such convalescents may retain the infection in their blood for three or four weeks after being up and about, and if such cases go into our camps the lice in the camps are very likely to become infected by sucking the blood of such convalescents and in due time inoculate other laborers with typhus.

Until further orders no new men who are to go into camps or bunk cars will be employed without inspection by one of our local surgeons, who will furnish the employing officer a certificate saying that the applicant and members of his family are free from lice before he can be accepted for employment.

If inspection proves the applicant and members of his family to be free from lice, the certificate may then be granted.

If the applicant or members of his family are found to be infested with lice, no certificate shall be granted until the measures provided for in rules 1 and 5 have been carried out and the outside clothing disinfected and new clothing applied. This measure should also apply to all luggage of the applicant and members of his family.

So far no cases of typhus fever have been reported among our laborers, and it is the purpose of this order to make careful examination of all sick laborers and their families for evidence of the disease, including mild and atypical cases; to clean up and delouse the bodies and habitations of laborers and their families, and to prevent the introduction of infection by the employment of newcomers who may bear infected lice or who may be typhus convalescents.

Your attention is particularly invited to the necessity of protecting the health of those under your jurisdiction in order that the work of the railroad may not be interrupted.

Your active cooperation is expected.

PUBLIC HEALTH ADMINISTRATION.

WITH SPECIAL REFERENCE TO TOWNS AND RURAL COMMUNITIES.¹

By PAUL PREBLE, Passed Assistant Surgeon, United States Public Health Service.

Community health must be understood to be an attainable condition and practically every community may have the degree of healthfulness which it desires to secure and with which it is satisfied. Sanitary regulations often interfere temporarily with individual comfort and family management, and the statement often holds that any interference which tends to protect the health of the community is considered unwarranted interference with vested rights.

The old idea that one's health is his own business is based upon false and unfounded premises and has no standing in the sanitary code of to-day. In the past, individual effort to protect oneself against infection from without has generally proved ineffective and the appearance of epidemics called for more concerted action. Boards of health were established primarily to control and eradicate prevailing epidemics. The earlier efforts in public health work found ex-

¹ Abstracted from a paper delivered at the Eighteenth Annual School of Instruction for Health Officers, Burlington, Vt., July 5, 1916.

pression in local communities before being taken up by the State. However, progress in smaller towns and villages has in many instances remained at a standstill. This lack of progress has often been due to a certain civic pride which has defeated any attempt to change the old order of things or to cooperate with neighboring communities in promoting measures for the betterment of all concerned.

Although theoretically responsible for the health of the communities they represent, local boards of health are to-day, generally speaking, the weakest elements in the public health machinery we are so slowly building for the physical welfare of the Nation. Aside from certain routine matters, such as the enforcement of old-fashioned quarantine, the placarding of some of the cases of contagious disease that happen to have been reported, and fumigating at the termination of some of them, their activities are too often expended in attempting to abate common nuisances or settling neighborhood disputes over a chicken pen or carting away and burying dead animals—functions more fitting for the police department.

The general public has been slow, especially in rural communities, in accepting the simple facts concerned in the causation and spread of preventable diseases. Continued attempts to educate the individual as well as the public at large must be made, because success in public health organization and administration depends upon the cooperation, as well as the moral and financial support, of the community. The same general laws govern health and disease in the city and in the country.

With the development of community life, economic considerations were responsible for the establishment of common water supplies and public sewerage systems as well as other measures for the preservation and protection of life and property necessary for civic existence. Protection against communicable disease is as important as protection against larceny or incendiarism.

A glance at the various laws and the regulations adopted by municipal and State health departments during the past few years ¹ reveals many ill-advised laws and regulations, but the general trend indicates an advance and an improvement in sane sanitary legislation.

The Functions of Federal and State Health Organizations.

To control and diminish effectively and efficiently the prevalence of communicable diseases are proper functions of the Federal, State, and local health authorities.

Briefly, the functions of the Federal health service are as follows:

1. To prevent the importation of communicable diseases from foreign countries and their spread in interstate traffic. (Acts of 1890 and 1893.)

¹ See Reprints from Public Health Reports Nos. 200, 264, 279, 338; also Nos. 70, 121, 199, 230, and 273.

2. To collect information of the prevalence and geographic distribution of disease and other pertinent sanitary information. (Act of 1893.)

3. To investigate the causes of disease and to determine means for prevention and control. (Acts of 1901 and 1912.)

4. To cooperate with and render assistance to State and local health authorities in matters pertaining to the public health. (Acts of 1893 and 1902.)

5. To distribute information and literature regarding the prevalence, geographic distribution, causation, and prevention of disease. (Acts of 1893 and 1912.)

The more important functions of the State health organizations are:

1. To enforce the State health laws.

2. To promulgate and enforce regulations to control the occurrence and spread of disease within the State, including quarantine.

3. To keep informed of the prevalence of disease.

4. To investigate epidemics and instances of unusual prevalence of disease, and to determine the conditions responsible for the epidemics or unusual prevalence.

5. To control the communicable diseases and prevent their spread.

6. To aid and assist local health authorities.

The rôle of the Local Health Department.

Our early primitive conditions have given place to a really complex civilization, complex because of the more or less close interrelation between the various units through travel and the exchange of commodities. The ease of communication with nearby or distant places, made possible by the increased transportation facilities furnished by railroads, interurban trolleys, and the automobile, has greatly increased the tendency of communicable diseases to spread from city to city and from State to State.

The duties and powers of the local health officer or board of health should be specific and clearly defined by law and pertain only to the business of improving and protecting the public health. They should include all measures necessary for the reduction of sickness and disease and the improvement of the general sanitary status of the community. As a basis for the activities of the health authorities, a sanitary code or set of rules and ordinances or regulations should be promulgated. These regulations should be prepared with extreme care and permit of intelligent application and enforcement. Too many of these codes to-day are amusing relics of ancient and antiquated ideas, hastily written a generation or more ago, incapable of enforcement or application to conditions as they exist at the present time.

In many of the smaller places there is found to exist only a board of health, composed mainly of busy practicing physicians who take their turn at placarding or fumigating or attempting to abate a few petty nuisances that are brought to their attention. They may receive a small monetary compensation. No records of any value are preserved and nothing real is accomplished in disease prevention. With the growing tendency to appoint health officers who are made the executive agents of the boards of health, it is reasonable to delegate to the boards only legislative and advisory functions. Local boards of health are too often perfunctorily appointed bodies and owe even their existence to some mandatory clause in the city or town charter.

The principal functions of a local board of health are briefly:

1. To urge and secure the adoption of such local legislation as may be necessary for the protection of the public health.
2. To adopt and promulgate such rules and regulations as may be necessary in maintaining the health and sanitary condition of the community.
3. To secure adequate appropriations and approve expenditures.
4. To consult with and advise the health officer in problems of special importance or of an emergency nature as they may arise from time to time.

The function of the local health officer and the local health department is the prevention and eradication of communicable or preventable diseases. It has been estimated that nearly one-quarter of all deaths in the United States are the result of communicable diseases many of which are essentially community diseases whose prevalence in a community is an index of the adequacy and efficiency of the local health organization.

Where local boards of health are established, the local health officer generally should be the executive officer of the board, empowered to enforce its rules and regulations. His tenure of office should depend upon his ability and efficiency. He need not necessarily be a physician, but he should have either thorough experience or previous training and a good working knowledge of sanitary principles and practice. It is absurd to require that he be a resident or a voter in the community he is to serve, because our sanitary science is really in its infancy, and trained sanitarians do not grow up over night in every community. Also a person without local ties will often make a more efficient public servant.

The Local Health Officer.

The most important function of the local health officer is the control of preventable diseases. To secure the best results, his efforts must be directed along three lines:

1. He must keep constantly informed concerning the prevalence and geographic distribution of preventable diseases within his jurisdiction (morbidity reports).

2. He must secure complete and definite knowledge of the various conditions responsible for this prevalence (epidemiological studies).

3. He must devise and institute remedial measures to control these diseases and reduce their prevalence (corrective measures).

The importance of morbidity reports.—The complete reporting of all cases or suspected cases of communicable diseases is the most important factor in their control and too much emphasis can not be placed on this point. While it is true that notification of cases of sickness is satisfactory in isolated instances, generally speaking, our morbidity returns are far from satisfactory. Without a knowledge of the existing cases of communicable diseases in his community the health officer can not intelligently investigate their epidemiology or institute measures for their control.

Nearly all the States have laws regarding the reporting of communicable diseases, but few, if any, are consistently enforcing them.

The importance of morbidity reports is being dismissed with apparently little discussion, but notification must be recognized as the corner stone upon which is built up our defense against communicable disease.

Epidemiologic studies.—In modern sanitary procedures, epidemiology, as a science, deals not only with epidemics but with usual or unusual prevalence of disease. Its function is to determine the origin, distribution, and means of spread. In common practice it is the local health officer that must assume the rôle of epidemiologist, because he is the man on the spot and best acquainted with local conditions. Given prompt and fairly complete case reports, he must study each individual case, check and tabulate his findings, and draw his conclusions as to the factor or factors responsible for the prevalence of the disease under investigation.

Personal visit to each known or suspected case should be made by the health officer immediately upon learning of its existence, in order to establish the diagnosis and determine, if possible, the cause or probable cause of the infection. A suitable blank form should be used, and for each case notation should be made of the findings in regard to the date of onset, the personal habits, environment, water and milk supply of the patient, method of disposal of excreta, the possibility of contact infection, and so forth. Proper blanks or cards not only make the collection of data easier, but facilitate tabulation and filing for future reference.

If the data are properly indexed and tabulated, a great deal can be learned concerning the real or probable cause of the disease studied. Chronological charts and spot maps, showing dates of onset of cases

with their distribution, are of invaluable assistance in following the progress of a disease.

This discussion of the value of epidemiologic study is brief, but it is desired to emphasize its importance as the foundation upon which must be based any intelligently applied remedial measures required to control or eradicate disease. It is unfortunately true that many boards of health and local health officers, especially in rural sections, do not devote much, if any, time to the epidemiologic study of the prevalence of disease in their communities. The one-man, part-time health department, with no clerical assistance, asks how he can be expected to collect and study these data. No elaborate equipment is necessary, and in rural communities, at least, comparatively little time is required to keep the information up to date at all times.

Control of disease—Corrective sanitation.—Having studied carefully the findings in each case reported or discovered during investigations, the evidence at hand will in most instances point to the steps necessary to control the situation, and much needless expenditure of energy and funds will usually be avoided. Without this information of the cases and the conditions under which they are occurring, the health authority will be working in the dark and wasting his available ammunition against an enemy of unknown numbers and haunts. Funds usually appropriated for health work are so limited that it requires wisdom and discretion born of training and experience to expend them to the greatest advantage.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

RECIPROCAL NOTIFICATION.

Minnesota.

Cases of communicable diseases referred during January, 1917, to other State health departments by department of health of the State of Minnesota.

Disease and locality of notification.	Referred to health authority of—	Why referred.
Diphtheria: Minneapolis health department, Hennepin County.	Rice Lake, Barron County, Wis.....	Sick in city hospital Jan. 6. Came from Wisconsin Jan. 5.
Harrison Township, Kandiyohi County.	Turtle Lake, Barron County, Wis....	Child died of diphtheria in Minnesota, evidently contracted in Wisconsin.
Scarlet fever: South St. Paul, Dakota County.	Chicago, Cook County, Ill.....	Family exposed to scarlet fever in Minnesota went to Chicago, Ill.
Smallpox: Minneapolis health department, Hennepin County.	Omaha, Douglas County, Nebr. Chief dispatchers of the Omaha and Burlington roads.	Case infected in Minnesota; exposed persons at Omaha and on Omaha and Burlington roads.
	Chippewa Falls, Chippewa County, Wis.	Case suffering with smallpox came to Minnesota from Wisconsin.
Tuberculosis: St. Paul bureau of health, Ramsey County. Mayo Clinic, Rochester, Olmsted County.	Eau Claire, Eau Claire County, Wis.. Bisbee, Cochise County, Ariz..... Sioux City, Woodbury County, Iowa. Dubuque, Dubuque County, Iowa.. East Las Vegas, San Miguel County, N. Mex. Page, Cass County, N. Dak..... Tappen, Kidder County, N. Dak.... Texoma, Texas County, Okla..... Vale, Butte County, S. Dak..... Cambridge, Dane County, Wis.. Regina, Saskatchewan, Canada..... Yorkton, Saskatchewan, Canada.... Birch Hill, Saskatchewan, Canada.. Val Marie, Saskatchewan, Canada.. Mebrille, Saskatchewan, Canada.... Port Arthur, Ontario, Canada..... Surrey, Ward County, N. Dak.....	Minnesota tuberculosis case living in Eau Claire, Wis. 6 moderately advanced. 6 advanced. 2 apparently arrested and 1 apparently cured; cases left Mayo Clinic for homes.
Poekagama Sanatorium, Pine County. Thomas Hospital, Minneapolis, Hennepin County.	Baldwin, St. Croix County, Wis.....	1 open case left sanatorium for home. Case who died removed to home in Wisconsin.
Typhoid fever: Madison Lake, Blue Earth County.	New England, Hettinger County, N. Dak.	Worked as housewife on farm near New England, N. Dak., 3 weeks previous to first symptoms.
Faribault, Rice County.....	Harlem, Blaine County, Mont.....	Living in Harlem, Mont., 3 weeks previous to first symptoms.

CEREBROSPINAL MENINGITIS.

State Reports for January, 1917.

Place.	New cases reported.	Place.	New cases reported.
California:		Minnesota:	
Butte County—		Faribault County—	
Oroville.....	1	Blue Earth.....	1
Kern County—		Hennepin County—	
Bakersfield.....	1	Minneapolis.....	1
Los Angeles County.....	1	Ramsey County—	
Los Angeles.....	1	St. Paul.....	1
San Francisco.....	2	St. Louis County—	
Santa Clara County.....	1	Duluth.....	2
San Jose.....	1	Total.....	5
Ventura County—			
Santa Paula.....	1	Mississippi:	
Total.....	9	Scott County.....	1
Connecticut:		South Carolina:	
Fairfield County—		Greenwood County.....	1
Bridgeport.....	1		
Fairfield.....	1	West Virginia:	
Hartford County—		Grant County.....	1
Hartford.....	8	Lincoln County.....	2
New Britain.....	1	McDowell County.....	1
New Haven County—		Mason County.....	1
New Haven.....	1	Summers County.....	1
Waterbury.....	3	Tucker County.....	1
Total.....	15	Total.....	7
Louisiana:			
St. Mary Parish.....	1		

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	5		Hartford, Conn.....	6	4
Austin, Tex.....	3		Kansas City, Mo.....		1
Baltimore, Md.....	1	1	Los Angeles, Cal.....		1
Binghamton, N. Y.....	1		Lynn, Mass.....	1	1
Boston, Mass.....	4	1	Milwaukee, Wis.....	2	2
Bridgeport, Conn.....		1	New York, N. Y.....	9	2
Chicago, Ill.....	4	2	Philadelphia, Pa.....	3	2
Cleveland, Ohio.....	1		Providence, R. I.....	1	
Detroit, Mich.....	1		St. Louis, Mo.....	2	1
Duluth, Minn.....	2		Superior, Wis.....		1

DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 366.

ERYSIPELAS.

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.....	1		Kalamazoo, Mich.....	3	
Allentown, Pa.....	2		Lexington, Ky.....		1
Ann Arbor, Mich.....	1		Lowell, Mass.....		1
Baltimore, Md.....	1	2	Milwaukee, Wis.....	3	
Beaver Falls, Pa.....	1		Morristown, N. J.....	1	
Berkeley, Cal.....		5	Newark, N. J.....	3	
Binghamton, N. Y.....	1		New York, N. Y.....		5
Boston, Mass.....		5	Omaha, Nebr.....	1	1
Braddock, Pa.....	1		Pasadena, Cal.....	4	
Bridgeport, Conn.....	1		Philadelphia, Pa.....	9	
Buffalo, N. Y.....	5	3	Pittsburgh, Pa.....	15	2
Cambridge, Mass.....		1	Portland, Oreg.....	1	1
Canton, Ohio.....	1		Providence, R. I.....		1
Chelsea, Mass.....		1	Rochester, N. Y.....	5	
Chicago, Ill.....	28	6	St. Joseph, Mo.....	2	
Cincinnati, Ohio.....	1		St. Louis, Mo.....	13	2
Cleveland, Ohio.....	10	1	St. Paul, Minn.....	4	
Cumberland, Md.....	1		San Francisco, Cal.....	4	
Denver, Colo.....	4		Seattle, Wash.....	2	
Detroit, Mich.....	8	2	Springfield, Ill.....		4
Duluth, Minn.....	2		Syracuse, N. Y.....	1	1
Fall River, Mass.....		1	Toledo, Ohio.....	2	
Hartford, Conn.....	2		Topeka, Kans.....	1	
Jackson, Mich.....	1		Wichita, Kans.....	1	1

LEPROSY.**California—San Diego.**

The secretary of the California State Board of Health reported February 16, 1917, that a case of leprosy had been notified at San Diego, Cal., in the person of A. A., male, Mexican, aged 31 years, a resident of California during the last seven years. The disease is of the tubercular type. The patient was transferred to the Los Angeles County Hospital February 18, 1917.

Wisconsin—Milwaukee.

Senior Surg. Banks reported February 21, 1917, that a case of leprosy had been notified at Milwaukee, Wis., in the person of G. B., an alien, age 22 years, male, who came to the United States about four years ago, had been in Milwaukee since November, 1916, and was living at 35 Juneau Avenue when found to be suffering from leprosy. The diagnosis was confirmed by bacteriological examination.

City Reports for Week Ended Feb. 10, 1917.

During the week ended February 10, 1917, one case of leprosy was reported in Jersey City, N. J.; one case in New Orleans, La.; and one death in Los Angeles, Cal.

MALARIA.**State Reports for January, 1917.**

Place.	New cases reported.	Place.	New cases reported.
California:		Maryland:	
Amador County.....	1	Charles County—	
Butte County.....	2	Chapel Point, R. F. D.....	1
Chico.....	5	Bel Alton.....	1
Marin County.....	1	Dentsville, R. F. D.....	1
San Francisco.....	1	Total.....	3
San Joaquin County.....	1	Mississippi:	
Tehama County.....	1	Adams County.....	14
Yolo County.....	3	Alcorn County.....	15
Total.....	15	Amite County.....	51
Louisiana:		Attala County.....	51
Acadia Parish.....	9	Benton County.....	3
Bienville Parish.....	1	Bolivar County.....	440
De Soto Parish.....	2	Calhoun County.....	47
E. Carroll Parish.....	1	Carroll County.....	40
E. Feliciana Parish.....	1	Chickasaw County.....	15
Jefferson Davis Parish.....	5	Choctaw County.....	18
LaSalle Parish.....	2	Chalborne County.....	37
Ouachita Parish.....	3	Clarke County.....	23
Rapides Parish.....	2	Clay County.....	1
St. John Parish.....	2	Coahoma County.....	272
St. Landry Parish.....	2	Copiah County.....	65
St. Mary Parish.....	4	Covington County.....	42
Vermilion Parish.....	1	De Soto County.....	13
W. Feliciana Parish.....	1	Forrest County.....	136
Total.....	36	Franklin County.....	55
		George County.....	19
		Greene County.....	10

MALARIA—Continued.

State Reports for January, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Mississippi—Continued.		Mississippi—Continued.	
Grenada County.....	19	Quitman County.....	48
Hancock County.....	72	Rankin County.....	23
Harrison County.....	42	Scott County.....	11
Hinds County.....	223	Sharkey County.....	41
Holmes County.....	271	Simpson County.....	22
Issaquena County.....	30	Smith County.....	27
Itawamba County.....	22	Sunflower County.....	299
Jackson County.....	30	Tallahatchie County.....	78
Jasper County.....	35	Tate County.....	82
Jefferson County.....	64	Tippah County.....	33
Jefferson Davis County.....	14	Tishomingo County.....	23
Jones County.....	96	Tunica County.....	117
Kemper County.....	27	Union County.....	5
Lafayette County.....	30	Warren County.....	157
Lamar County.....	48	Washington County.....	167
Lauderdale County.....	60	Wayne County.....	25
Lawrence County.....	23	Webster County.....	20
Leake County.....	37	Wilkinson County.....	8
Lee County.....	33	Yalobusha County.....	31
Leflore County.....	173	Yazoo County.....	257
Lincoln County.....	43	Stone County.....	39
Lowndes County.....	20	Walthall County.....	3
Madison County.....	46	Total.....	4,829
Marion County.....	84		
Marshall County.....	46	South Carolina:	
Monroe County.....	26	Beaufort County.....	2
Montgomery County.....	17	Edgefield County.....	4
Neshoba County.....	52	Fairfield County.....	3
Newton County.....	15	Greenwood County.....	5
Noxubee County.....	32	Lee County.....	1
Oktibbeha County.....	33	Marion County.....	4
Panola County.....	32	Orangeburg County.....	18
Pearl River County.....	22	York County.....	3
Perry County.....	21	Total.....	40
Pike County.....	83		
Pontotoc County.....	16		
Prentiss County.....	10		

City Reports for Week Ended Feb. 10, 1917.

During the week ended February 10, 1917, two cases of malaria were reported in Sacramento, Cal.; one case in New Orleans, La.; and one death in Mobile, Ala.

MEASLES.

Alaska—Ketchikan.

Acting Asst. Surg. Story reported that during the period from January 27 to February 17, 1917, 9 new cases of measles were notified at Ketchikan, Alaska, making a total of 87 cases, with 1 death, reported since the beginning of the present outbreak, about December 15, 1916.

Alaska—Southeastern Section.

Assistant Surg. Woods reported February 4, 1917, in regard to the presence of measles in the southeastern section of Alaska as follows: At Ketchikan an epidemic, confined mainly to the native population, was subsiding. At Sitka the city health officer reported the occurrence of 120 cases, with 2 deaths, and that the disease was

MEASLES—Continued.**Alaska—Southeastern Section—Continued.**

beginning to spread to the white population, among whom about 20 cases had occurred up to January 26, 1917. At Yakutat there had been an epidemic of the disease, with 128 cases reported among the population of 145 persons. Five deaths were reported at Yakutat. Current reports indicated that the disease was, or recently had been, epidemic in many of the villages in this section of Alaska.

California—Los Angeles.

Senior Surg. Brooks reported that during the week ended February 17, 1917, 169 new cases of measles were notified in Los Angeles, Cal.

Washington—Seattle.

Surgeon Lloyd reported that during the week ended February 10, 1917, 231 cases of measles with two deaths, were notified at Seattle, Wash., making a total of 6,517 cases, with 12 deaths, reported since the beginning of the outbreak, February 15, 1916.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 366.

PELLAGRA.**State Reports for January, 1917.**

Place.	New cases reported.	Place.	New cases reported.
Louisiana:		Mississippi—Continued.	
Bossier Parish.....	3	Marshall County.....	7
Orleans Parish.....	2	Monroe County.....	3
Red River Parish.....	1	Neshoba County.....	2
Total.....	6	Newton County.....	1
Mississippi:		Noxubee County.....	3
Adams County.....	2	Oktibbeha County.....	5
Alcorn County.....	1	Pearl River County.....	2
Amite County.....	2	Perry County.....	2
Attala County.....	1	Pike County.....	3
Bolivar County.....	9	Prentiss County.....	1
Carroll County.....	2	Quitman County.....	2
Chickasaw County.....	5	Scott County.....	3
Claiborne County.....	1	Simpson County.....	2
Clarke County.....	2	Sunflower County.....	10
Clay County.....	3	Tallahatchie County.....	4
Coahoma County.....	14	Tate County.....	2
Copiah County.....	2	Tippah County.....	3
Covington County.....	1	Tunica County.....	5
De Soto County.....	1	Warren County.....	1
Forrest County.....	14	Washington County.....	5
George County.....	2	Yazoo County.....	12
Hancock County.....	3	Walthall County.....	3
Harrison County.....	7	Total.....	198
Hinds County.....	18	South Carolina:	
Holmes County.....	1	Anderson County.....	1
Itawamba County.....	3	Edgefield County.....	2
Jackson County.....	1	Greenville County.....	1
Jasper County.....	2	Greenwood County.....	1
Jefferson County.....	2	Lexington County.....	1
Jones County.....	3	Orangeburg County.....	1
Lamar County.....	1	Saluda County.....	1
Lauderdale County.....	2	Spartanburg County.....	1
Lawrence County.....	1	York County.....	1
Leake County.....	1	Total.....	10
Lee County.....	1	West Virginia:	
Leflore County.....	4	McDowell County.....	1
Lincoln County.....	2		
Lowndes County.....	1		
Marion County.....	3		

PELLAGRA—Continued.

City Reports for Week Ended Feb. 10, 1917.

During the week ended February 10, 1917, one death from pellagra was reported in Birmingham, Ala.; two deaths were reported in Charleston, S. C.; one death in Mobile, Ala.; and one death in Norfolk, Va.

PLAGUE.

Louisiana—New Orleans and Westwego—Plague-Infected Rats Found.

Passed Asst. Surg. Simpson reported that a rat trapped December 29, 1916, at the Press Street public dump, New Orleans, La., was proved positive for plague infection February 11, 1917. Dr. Simpson also reported that a rat trapped January 4, 1917, at Grain Elevator B, Westwego, La., was proved positive for plague infection February 11, 1917.

PNEUMONIA.

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Allentown, Pa.	1	.....	New Britain, Conn.	3	2
Auburn, N. Y.	7	7	New Castle, Pa.	2	.....
Baltimore, Md.	17	31	Newport, Ky.	2	2
Birmingham, Ala.	2	10	Oakland, Cal.	1	11
Binghamton, N. Y.	7	9	Pasadena, Cal.	1	1
Braddock, Pa.	2	.....	Philadelphia, Pa.	161	71
Chicago, Ill.	295	161	Pittsburgh, Pa.	27	43
Cleveland, Ohio.	50	42	Racine, Wis.	1	1
Coffeyville, Kans.	2	1	Reading, Pa.	1	10
Detroit, Mich.	16	28	Rochester, N. Y.	10	10
Dubuque, Iowa.	1	1	Rockford, Ill.	1	5
Duluth, Minn.	5	.....	Sacramento, Cal.	3	2
Erie, Pa.	3	.....	St. Joseph, Mo.	1	1
Flint, Mich.	9	.....	St. Paul, Minn.	1	8
Grand Rapids, Mich.	4	3	San Diego, Cal.	1	2
Harrisburg, Pa.	2	3	Sandusky, Ohio.	4	.....
Jackson, Mich.	2	1	San Francisco, Cal.	8	5
Kalamazoo, Mich.	6	3	San Jose, Cal.	1	.....
Kansas City, Kans.	2	.....	Schenectady, N. Y.	8	1
Kansas City, Mo.	15	21	Steelton, Pa.	3	.....
Los Angeles, Cal.	8	7	Toledo, Ohio.	2	8
Manchester, N. H.	10	10	Topeka, Kan.	1	.....
McKeesport, Pa.	1	.....	Wichita, Kans.	3	2
Nashville, Tenn.	2	8	York, Pa.	1	.....
Newark, N. J.	88	14			

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for January, 1917.

Place.	New cases reported.	Place.	New cases reported.
California:		Connecticut:	
Los Angeles County—		Hartford County—	
Los Angeles.....	1	East Hartford.....	1
Orange County.....	1	Farmington.....	1
San Diego County—		Hartford.....	1
San Diego.....	1	Total.....	3
San Francisco.....	2		
Shasta County.....	1	Maryland:	
Sonoma County—		Anne Arundel County—	
Santa Rosa.....	1	Sudley.....	1
Total.....	7	Baltimore County—	
		Rosedale.....	1
		St. Mary's Orphanage.....	1

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.**State Reports for January, 1917—Continued.**

Place.	New cases reported.	Place.	New cases reported.
Maryland—Continued.		New Jersey:	
Carroll County—		Camden County.....	1
Sykesville.....	1	Essex County.....	4
Charles County—		Middlesex County.....	1
White Plains, R. F. D.....	1	Morris County.....	1
Howard County—		Total.....	7
Ellicott City.....	1	Vermont:	
Somerset County—		Addison County.....	1
Crisfield.....	1	Franklin County.....	1
Total.....	7	Total.....	2
Michigan:		West Virginia:	
Bay County—		Logan County—	
Bay City.....	1	Peach Creek.....	1
Calhoun County—		Marion County—	
Battle Creek.....	1	Fairmont.....	10
Sanilac County—		Monongalia County—	
Melvin.....	1	Morgantown.....	1
Washtenaw County—		Pendleton County—	
Freedom Township.....	1	Circleville.....	1
Total.....	4	Raleigh County—	
Minnesota:		Sophia.....	1
Cass County—		Randolph County—	
Sylvan Township.....	1	Elkins.....	49
Mississippi:		Taylor County—	
Bolivar County.....	1	Grafton.....	26
Hancock County.....	1	Total.....	89
Jasper County.....	1		
Jones County.....	1		
Kemper County.....	1		
Rankin County.....	1		
Walthall County.....	1		
Total.....	7		

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	1		New York, N. Y.....	1	1
Bridgeport, Conn.....		1	Niagara Falls, N. Y.....		5
Chicago, Ill.....	2		Philadelphia, Pa.....		1
Kenosha, Wis.....	1				

RABIES IN ANIMALS.**City Reports for Week Ended Feb. 10, 1917.**

During the week ended February 10, 1917, two cases of rabies in animals were reported in Buffalo, N. Y.; one case in Detroit, Mich.; and two cases in St. Paul, Minn.

SCARLET FEVER.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 366.

SMALLPOX.

Minnesota.

Collaborating Epidemiologist Bracken reported that during the week ended February 24, 1917, four new foci of smallpox infection were reported in Minnesota, cases of the disease having been notified as follows: Kandiyohi County, Irving Township, 1; Morrison County, Belle Prairie Township, 1; Scott County, Sand Creek Township, 1; Sibley County, Faxon Township, 1.

State Reports for January, 1917.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
California:						
Alameda County.....	2					2
Oakland.....	4				4	
Butte County.....	1					1
Fresno County.....	1				1	
Coalinga.....	1				1	
Los Angeles County—						
Arcadia.....	1			1		
South Pasadena.....	1				1	
Marin County.....	1					1
Orange County.....	1					1
Placer County.....	1			1		
Auburn.....	2			2		
San Diego County—						
San Diego.....	2			1	1	
San Francisco.....	14				14	
Solano County.....	2					2
Vacaville.....	6				5	1
Total.....	40			5	27	8
Michigan:						
Alcona County—						
Gustin Township.....	8				8	
Alpena County—						
Alpena.....	10				10	
Bay County—						
Bay City.....	1					1
Benzie County—						
Inland Township.....	1				1	
Clare County—						
Clare.....	5				4	1
Eaton County—						
Kalama Township.....	1					1
Walton Township.....	2				2	
Windsor Township.....	1				1	
Charlotte.....	1					1
Genesee County—						
Atlas Township.....	3				3	
Clayton Township.....	1				1	
Genesee Township.....	4				4	
Flint.....	14				14	
Grand Traverse County—						
Grant Township.....	1					1
Green Lake Township.....	8				8	
Huron County—						
Sebewaing.....	1					1
Ingham County—						
Delhi Township.....	1				1	
Lansing.....	2				2	
Iosco County—						
East Tawas.....	5				5	
Jackson County—						
Springport.....	3				2	1
Kalamazoo County—						
Kalamazoo.....	2				1	1

SMALLPOX—Continued.

State Reports for January, 1917—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Michigan—Continued.						
Kent County—						
Sparta Township.....	1				1	
Grand Rapids.....	1				1	
Mackinac County—						
Brevort Township.....	9				9	
Macomb County—						
Lenox Township.....	1				1	
Richmond.....	2				2	
Mount Clemens.....	1				1	
Manistee County—						
Marilla Township.....	5				5	
Copemish.....	4				4	
Marquette County—						
Marquette.....	3				3	
Oakland County—						
Farmington Township.....	3					3
Novi Township.....	1				1	
Birmingham.....	5		1		4	
Royal Oak.....	2			1	1	
Pontiac.....	2				2	
Saginaw County—						
Chesaning.....	1				1	
Saginaw.....	1				1	
St. Clair County—						
Algonac.....	1					1
Port Huron.....	7				7	
Shiawassee County—						
Caledonia Township.....	2				2	
Fairfield Township.....	7				7	
Hazleton Township.....	2			1	1	
Owosso Township.....	1				1	
Rush Township.....	1				1	
Owosso.....	5				5	
Van Buren County—						
Hartford.....	1				1	
Washtenaw County—						
Ann Arbor.....	3			1	2	
Wayne County—						
Dearborn Township.....	1				1	
Highland Park.....	5			2	1	2
Detroit.....	20				20	
Wyandotte.....	1				1	
Total.....	174		1	5	154	14
Minnesota:						
Becker County—						
Frazee.....	8				8	
Blue Earth County—						
Mankato.....	2				2	
Brown County—						
Springfield.....	1				1	
Cass County—						
Twp. 114, R. 31.....	1				1	
Crow Wing County—						
Brainerd.....	21			1	14	6
Long Lake Township.....	1					1
Dakota County—						
South St. Paul.....	2				2	
Goodhue County—						
Zumbrota.....	5			2	3	
Hennepin County—						
Minneapolis.....	61		1	3	57	
Hubbard County—						
Akeley.....	4				4	
Kandiyohi County—						
Willmar.....	2			2		
Martin County—						
Fairmont.....	1				1	

SMALLPOX—Continued.

State Reports for January, 1917—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Minnesota—Continued.						
Morrison County—						
Little Falls.....	10			1	9	
Randall.....	10				10	
Darling Township.....	23				23	
Pike Creek Township.....	1				1	
Ottertail County—						
Trondjem Township.....	2				2	
Pipestone County—						
Eden Township.....	1				1	
Pope County—						
Bangor Township.....	3				3	
Ramsey County—						
St. Paul.....	8				8	
Redwood County—						
Johnsville Township.....	1				1	
Rock County—						
Denver Township.....	1	1				
St. Louis County—						
Duluth.....	1				1	
Eveleth.....	1				1	
Sibley County—						
Winthrop.....	3				3	
Swift County—						
Kildare Township.....	7				7	
Todd County—						
Villard Township.....	1				1	
Wabasha County—						
Elgin.....	1				1	
Plainview.....	1				1	
Highland Township.....	1					1
Mazeppa Township.....	1				1	
Plainview Township.....	1				1	
Wadena County—						
Orton Township.....	5				5	
Waseca County—						
New Richland.....	1				1	
Wilkin County—						
Roberts Township.....	4			2	2	
Winona County—						
Winona.....	1				1	
Wilson Township.....	1			1		
Yellow Medicine County—						
Wood Lake.....	1				1	
Total.....	200		2	12	178	8

Miscellaneous State Reports.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Connecticut (Jan. 1-31):			Connecticut (Jan. 1-31)—Con.		
Fairfield County—			Litchfield County—Con.		
Fairfield.....	2		Watertown.....	2	
Greenwich.....	1		Woodbury.....	1	
Stamford.....	2		Total.....	90	
New Haven County—					
Naugatuck.....	2		Louisiana (Jan. 1-31):		
Waterbury.....	62		Acadia Parish.....	1	
New London County—			Allen Parish.....	4	
Stonington.....	14		Ascension Parish.....	50	
Litchfield County—			Caddo Parish.....	4	
Thomaston.....	3		Calcasieu Parish.....	4	
Torrington.....	1				

SMALLPOX—Continued.

Miscellaneous State Reports—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Louisiana (Jan. 1-31)—Contd.			Mississippi (Jan. 1-31)—Contd.		
DeSoto Parish.....	1		Leflore County.....	1	
East Baton Rouge Parish.....	19		Montgomery County.....	4	
Iberia Parish.....	1		Newton County.....	2	
Jefferson Davis Parish.....	1		Panola County.....	1	
Lafourche Parish.....	6		Pearl River County.....	1	
Livingston Parish.....	1		Pontotoc County.....	1	
Orleans Parish.....	33		Quitman County.....	2	
Rapides Parish.....	1		Sunflower County.....	8	
St. Charles Parish.....	1		Tallahatchie County.....	2	
St. James Parish.....	2		Tato County.....	2	
St. John Parish.....	5		Warren County.....	3	
St. Landry Parish.....	1		Washington County.....	2	
St. Mary Parish.....	1		Webster County.....	1	
Tangipahoa Parish.....	2		Yalobusha County.....	1	
Terrebonne Parish.....	8		Yazoo County.....	1	
Vermilion Parish.....	5		Stone County.....	1	
Washington Parish.....	4				
Total.....	155		Total.....	196	
Mississippi (Jan. 1-31):			New Jersey (Jan. 1-31):		
Adams County.....	4		Hudson County.....	2	
Bolivar County.....	26				
Chickasaw County.....	2		South Carolina (Jan. 1-31):		
Clarke County.....	4		Aiken County.....	1	
Clay County.....	6		Edgefield County.....	2	
Covington County.....	1		Fairfield County.....	1	
De Soto County.....	9		Greenville County.....	1	
Franklin County.....	3		Marlboro County.....	1	
Hinds County.....	2		Total.....	6	
Holmes County.....	1				
Jasper County.....	1		West Virginia (Jan. 1-31):		
Jones County.....	40		Kanawha County.....	3	
Lafayette County.....	6		Raleigh County.....	2	
Lauderdale County.....	37		Total.....	5	
Lawrence County.....	16				
Lee County.....	5				

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	3		Little Rock, Ark.....	8	
Austin, Tex.....	3	1	Minneapolis, Minn.....	46	
Boston, Mass.....	1		Muscatine, Iowa.....	1	
Braddock, Pa.....	1		New Orleans, La.....	9	
Butte, Mont.....	11		New York, N. Y.....	2	
Cairo, Ill.....	1		Oklahoma City, Okla.....	1	
Chicago, Ill.....	1		Omaha, Nebr.....	5	
Cleveland, Ohio.....	14		Rockford, Ill.....	3	
Columbus, Ohio.....	1		Rocky Mount, N. C.....	3	
Covington, Ky.....	1		St. Joseph, Mo.....	6	
Danville, Ill.....	1		St. Paul, Minn.....	2	
Detroit, Mich.....	8		San Francisco, Cal.....	15	
Dubuque, Iowa.....	1		Sioux City, Iowa.....	12	
Duluth, Minn.....	2		Springfield, Ill.....	1	
El Paso, Tex.....	4		Steubenville, Ohio.....	1	
Flint, Mich.....	13		Toledo, Ohio.....	9	
Evansville, Ind.....	6		Topeka, Kans.....	5	
Fort Worth, Tex.....	1		Wichita, Kans.....	1	
Indianapolis, Ind.....	15				

TETANUS.

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Cairo, Ill.....	1		Kansas City, Mo.....		1
Columbus, Ohio.....		1	Providence, R. I.....		1
Detroit, Mich.....		1			

TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 366.

TYPHOID FEVER.

State Reports for January, 1917.

Place.	New cases reported.	Place.	New cases reported.
California:		Louisiana—Continued.	
Alameda County—		St. Mary Parish.....	1
Alameda.....	3	Terrebonne Parish.....	2
Berkeley.....	3	Vermilion Parish.....	2
Oakland.....	13	Webster Parish.....	2
Amador County.....	1	West Baton Rouge Parish.....	2
Contra Costa County—		West Feliciana Parish.....	1
Martinez.....	1	Total.....	41
El Dorado County—			
Placerville.....	1	Maryland:	
Fresno County.....	1	Baltimore City.....	31
Imperial County—		Allegany County—	
Calxico.....	1	Cumberland.....	3
Kern County—		Frostburg.....	2
Bakersfield.....	4	Midland, R. F. D.....	1
Kings County—		Allegany Hospital.....	1
Hanford.....	1	Western Maryland Hospital.....	1
Los Angeles County.....	1	Anne Arundel County—	
Long Beach.....	1	Annapolis, R. F. D.....	1
Los Angeles.....	15	Eastport.....	3
Pasadena.....	2	Baltimore County—	
Modoc County—		Catonsville.....	1
Alturas.....	1	Mount Washington.....	2
Riverside County—		Yeoho, R. F. D.....	1
Riverside.....	1	Cowenton.....	1
Sacramento County.....	1	Highlandtown.....	1
Sacramento.....	5	Carroll County—	
San Diego County—		Warfieldsburg, R. F. D.....	1
East San Diego.....	2	Cecil County—	
San Diego.....	36	North East.....	1
San Francisco.....	17	Mechanics Valley, R. F. D.....	1
San Joaquin County.....	3	Charles County—	
Stockton.....	6	Port Tobacco, R. F. D.....	1
San Luis Obispo County—		Faulkner.....	1
San Luis Obispo.....	1	Dorchester County—	
Santa Clara County.....	1	Cambridge.....	2
San Jose.....	2	Frederick County—	
Shasta County.....	2	Myersville.....	1
Sonoma County.....	3	Burkittsville.....	1
Santa Rosa.....	3	Bartonsville.....	1
Stanislaus County.....	1	Myersville, R. F. D.....	1
Oakdale.....	1	Harford County—	
Total.....	134	Thomas Run.....	1
		Kent County—	
Connecticut:		Still Pond, R. F. D.....	1
Fairfield County—		Botterton.....	1
Norwalk.....	1	Prince George County—	
Stamford.....	1	Oxen Hill.....	1
Harford County—		Berwyn, R. F. D.....	1
Glastonbury.....	1	Piscataway.....	1
Hartford.....	2	Lakeland.....	1
Middlesex County—		Somerset County.....	1
Middletown.....	1	Pocomoke City, R. F. D.....	1
New Haven County—		Crisfield.....	2
New Haven.....	1	Manokin.....	1
Wallingford.....	1	Princess Anne, R. F. D.....	1
New London County—		St. Marys County—	
New London.....	1	Park Hall.....	1
Total.....	9	Washington County—	
		Hagerstown.....	3
Louisiana:		Pectonville.....	1
Allen Parish.....	1	Pectonville, R. F. D.....	2
Avoyelles Parish.....	1	Wicomico County—	
Caddo Parish.....	1	Mardella Springs, R. F. D.....	1
Calcasieu Parish.....	1	Salisbury, R. F. D.....	1
East Baton Rouge Parish.....	2	Worcester County—	
Jefferson Davis Parish.....	2	Berlin, R. F. D.....	1
Orleans Parish.....	21	Bishopville.....	1
Rapides Parish.....	1	Total.....	86
St. Landry Parish.....	1		

TYPHOID FEVER—Continued.

State Reports for January, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Michigan:		Minnesota—Continued.	
Alpena County—		Crow Wing County—	
Alpena.....	1	Brainerd.....	2
Bay County—		Ironton.....	1
Bay City.....	4	Goodhue County—	
Benzie County—		Red Wing.....	1
Frankfort.....	1	Hennepin County—	
Thompsonville.....	1	Minneapolis.....	10
Chippewa County—		Chaplin Township.....	1
Bruce Township.....	1	Dayton Township.....	3
Delta County—		Itasca County—	
Gladstone.....	5	Deer River.....	1
Dickinson County—		Kanabec County—	
Iron Mountain.....	1	Hillman Township.....	1
Genesee County—		Kandiyohi County—	
Flint.....	6	Aretander Township.....	1
Grand Traverse County—		Lake County—	
Traverse City.....	1	Two Harbors.....	1
Grafton County—		Lyon County—	
Washington Township.....	2	Custer Township.....	1
Huron County—		Pine County—	
Port Hope.....	1	Sandstone.....	1
Ingham County—		Ramsey County—	
Delhi Township.....	1	St. Paul.....	4
Lansing.....	1	Roseau County—	
Jackson County—		Warroad.....	2
Jackson.....	1	America Township.....	1
Kalamazoo County—		St. Louis County—	
Kalamazoo.....	1	Duluth.....	1
Kent County—		Ely.....	2
Walker Township.....	1	Virginia.....	3
Lapeer County—		Soudan.....	1
Lapeer.....	5	Stuntz Township.....	1
Leelanau County—		Stearns County—	
Northport.....	1	Oak Township.....	1
Marquette County—		Steele County—	
Tilden Township.....	1	Blooming Prairie.....	1
Marquette.....	2	Swift County—	
Mason County—		Dublin Township.....	1
Ludington.....	1	Todd County—	
Missaukee County—		Long Prairie.....	1
Caldwell Township.....	1	Washington County—	
Monroe County—		Newport Township.....	2
Monroe.....	1	Wright County—	
Muskegon County—		Cokato.....	1
Muskegon.....	1	Total.....	51
Presque Isle County—			
Bismarck Township.....	1	Mississippi:	
Saginaw County—		Adams County.....	2
Albee Township.....	1	Alcorn County.....	3
Birch Run Township.....	1	Amite County.....	2
Taymouth Township.....	1	Attala County.....	1
Saginaw.....	5	Benton County.....	1
St. Clair County—		Bolivar County.....	4
Ira Township.....	1	Calhoun County.....	3
St. Clair Township.....	1	Carroll County.....	2
Shiawassee County—		Chickasaw County.....	1
Durand.....	1	Choctaw County.....	1
Van Buren County—		Claiborne County.....	1
Hartford Township.....	1	Clarke County.....	1
South Haven.....	1	Coahoma County.....	2
Washtenaw County—		Copiah County.....	5
Sharon Township.....	1	De Soto County.....	2
Wayne County—		Forrest County.....	2
Detroit.....	24	Franklin County.....	1
Wyandotte.....	3	Grenada County.....	10
Total.....	84	Hancock County.....	6
		Harrison County.....	5
Minnesota:		Hinds County.....	9
Brown County—		Itawamba County.....	1
New Ulm.....	1	Jackson County.....	3
Cass County—		Jasper County.....	3
Fairfield Township.....	1	Jefferson County.....	1
Chisago County—		Jefferson Davis County.....	5
Lindstrom.....	1	Jones County.....	6
Rush City.....	1	Kemper County.....	1
Clay County—		Lafayette County.....	4
Moorhead.....	1	Lamar County.....	4

TYPHOID FEVER—Continued.

State Reports for January, 1917—Continued.

Place.	New cases reported.	Place.	New cases reported.
Mississippi—Continued		New Jersey—Continued.	
Lauderdale County.....	2	Union County.....	1
Lawrence County.....	3	Total.....	72
Leake County.....	1		
Lee County.....	7	South Carolina:	
Leflore County.....	3	Chester County.....	2
Lincoln County.....	4	Edgefield County.....	1
Lowndes County.....	1	Fairfield County.....	3
Madison County.....	4	Lancaster County.....	2
Marion County.....	3	Richland County.....	1
Marshall County.....	3	Sumter County.....	1
Monroe County.....	5	York County.....	2
Neshoba County.....	1	Total.....	12
Newton County.....	1		
Oktibbeha County.....	3	Vermont:	
Panola County.....	1	Franklin County.....	1
Pike County.....	2	Orange County.....	1
Rankin County.....	1	Washington County.....	1
Scott County.....	4	Total.....	3
Smith County.....	4		
Sunflower County.....	8	West Virginia:	
Tallahatchie County.....	1	Boone County.....	1
Tate County.....	6	Braxton County.....	3
Tippah County.....	6	Brooke County.....	4
Tishomingo County.....	3	Greenbrier County.....	1
Tunica County.....	3	Hancock County.....	4
Warren County.....	3	Harrison County.....	2
Washington County.....	3	Jackson County.....	1
Wayne County.....	2	Kauawha County.....	1
Wilkinson County.....	1	Lincoln County.....	1
Yalobusha County.....	1	McDowell County.....	6
Yazoo County.....	6	Marshall County.....	1
Stone County.....	1	Marion County.....	8
Total.....	189	Mingo County.....	10
		Monangalia County.....	5
New Jersey:		Monroe County.....	1
Atlantic County.....	7	Morgan County.....	4
Bergen County.....	7	Ohio County—	
Burlington County.....	7	Wheeling.....	3
Camden County.....	6	Preston County.....	1
Essex County.....	5	Putnam County.....	1
Gloucester County.....	2	Roane County.....	3
Hudson County.....	7	Summers County.....	3
Hunterdon County.....	1	Taylor County.....	2
Mercer County.....	7	Webster.....	1
Middlesex County.....	1	Wood County—	
Monmouth County.....	7	Parkersburg.....	2
Passaic County.....	2	Total.....	69
Ocean County.....	1		
Salem County.....	1		
Somerset County.....	10		

City Reports for Week Ended Feb. 10, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.....	4		Flint, Mich.....	3	
Baltimore, Md.....	5		Fort Wayne, Ind.....	6	
Beaver Falls, Pa.....	4		Fort Worth, Tex.....	1	
Birmingham, Ala.....	6		Grand Rapids, Mich.....	2	1
Boston, Mass.....	3		Indianapolis, Ind.....	1	
Buffalo, N. Y.....	3	1	Jersey City, N. J.....	1	
Chelsea, Mass.....	1		Kalamazoo, Mich.....	1	1
Chicago, Ill.....	4		Kansas City, Mo.....	1	1
Cleveland, Ohio.....	2	2	Lexington, Ky.....	1	1
Covington, Ky.....	1		Los Angeles, Cal.....	4	1
Danville, Ill.....	1		Lowell, Mass.....		2
Denver, Colo.....	2		Manchester, N. H.....	1	
Detroit, Mich.....	5	2	Milwaukee, Wis.....	2	1
Duluth, Minn.....	2		Nashville, Tenn.....	1	
Elizabeth, N. J.....		1	Newark, N. J.....	1	
El Paso, Tex.....		1	New Bedford, Mass.....	2	1
Fall River, Mass.....	2		New Castle, Pa.....	7	

TYPHOID FEVER—Continued.**City Reports for Week Ended Feb. 10, 1917—Continued.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
New Orleans, La.	2	1	St. Joseph, Mo.	1	1
New York, N. Y.	17	5	St. Louis, Mo.	1	1
Niagara Falls, N. Y.	1	1	St. Paul, Minn.	1	1
North Adams, Mass.	1	1	Salt Lake City, Utah	2	1
Orange, N. J.	1	1	San Diego, Cal.	1	1
Pawtucket, R. I.	3	3	Sandusky, Ohio.	5	1
Philadelphia, Pa.	6	3	Seattle, Wash.	1	1
Pittsburgh, Pa.	1	1	Somerville, Mass.	1	1
Portland, Me.	2	1	South Bend, Ind.	1	1
Portland, Oreg.	1	1	Syracuse, N. Y.	1	1
Quincy, Ill.	4	1	Toledo, Ohio.	5	1
Racine, Wis.	2	1	Topeka, Kans.	6	1
Reading, Pa.	1	1	Washington, D. C.	2	1
Richmond, Va.	1	1	Worcester, Mass.	1	1
Rochester, N. Y.	1	1	York, Pa.	1	1
Rutland, Vt.	1	1	Zanesville, Ohio.	3	1
Sacramento, Cal.	1	1			

PREVENTABLE DISEASES.**Massachusetts Report for Week Ended Feb. 10, 1917.**

	Cases reported.		Cases reported.
Cerebrospinal meningitis	4	Scarlet fever	102
Chicken pox	202	Septic sore throat	4
Diphtheria	204	Smallpox	1
German measles	32	Tuberculosis (pulmonary)	167
Malaria	1	Tuberculosis (other forms)	17
Measles	468	Trichinosis	1
Mumps	121	Typhoid fever	18
Ophthalmia neonatorum	54	Whooping cough	43
Poliomyelitis (infantile paralysis)	1		

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.**State Reports for January, 1917.**

State.	Cases reported.			State.	Cases reported.		
	Diphtheria.	Measles.	Scarlet fever.		Diphtheria.	Measles.	Scarlet fever.
California	354	1,606	606	Mississippi	76	3,008	29
Connecticut	222	633	132	New Jersey	477	2,776	534
Louisiana	75	4,047	16	South Carolina	96	1,373	14
Maryland	180	799	155	Vermont	39	831	96
Michigan	603	485	1,412	West Virginia	77	1,191	70
Minnesota	261	284	364				

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Feb. 10, 1917.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.	589,621	213	27	1	16		6		17	26
Boston, Mass.	756,476	290	63	4	107	1	30	2	55	25
Chicago, Ill.	2,497,722	831	183	26	369	8	407	13	411	72
Cleveland, Ohio.	674,073	223	24	1	47		12	1	29	12
Detroit, Mich.	571,784	242	99	9	10		131	3	33	21
Los Angeles, Cal.	503,812	150	23		126	1	16	1	60	16
New York, N. Y.	5,602,841	1,776	231	28	350	6	121	1	334	231
Philadelphia, Pa.	1,709,518	673	72	9	26		31		106	80
Pittsburgh, Pa.	579,090	208	20	1	112	1	6		20	10
St. Louis, Mo.	757,309	277	75	8	283	2	63	2	65	26
From 300,000 to 500,000 inhab- itants:										
Buffalo, N. Y.	468,558	129	31	3	3	1	13	1	23	9
Cincinnati, Ohio.	410,476	158	11	1	7		8		21	16
Jersey City, N. J.	306,345		13		1		18		16	
Milwaukee, Wis.	436,535	135	11	3	3		95	2	12	8
Minneapolis, Minn.	363,454		18		17		23			
Newark, N. J.	408,894	140	34	1	9		19		44	22
New Orleans, La.	371,747		7		406	9			58	34
San Francisco, Cal.	463,616	153	20		93	2	40		26	24
Seattle, Wash.	348,639	58	2		231	1	5	1	12	9
Washington, D. C.	363,980	167	9		35	1	20		24	15
From 200,000 to 300,000 inhab- itants:										
Columbus, Ohio.	214,878	73	2		116	5	4		9	12
Denver, Colo.	260,800	80	9	1	173		8	1		11
Indianapolis, Ind.	271,708		13		123		17		4	
Kansas City, Mo.	297,847		8	2	75		59		7	9
Portland, Oreg.	295,463	39			64		13			2
Providence, R. I.	254,960	92	16	1	6	1	13		1	8
Rochester, N. Y.	256,417	64	3		5		37		8	5
St. Paul, Minn.	247,232	71	13	1	29		15		9	4
From 100,000 to 200,000 inhabit- ants:										
Albany, N. Y.	104,199		3		2		2		13	
Birmingham, Ala.	181,762	80			227	1	4		11	11
Bridgeport, Conn.	121,579	59	7	1	13		5		6	
Cambridge, Mass.	112,981	50	26	1	16		2		6	5
Camden, N. J.	106,233		8		2				7	
Fall River, Mass.	128,366	64	7		86	5	1		16	6
Fort Worth, Tex.	101,562	23			56		3	1		7
Grand Rapids, Mich.	128,291	36	1		25		16		2	2
Hartford, Conn.	110,900	55	8				3		3	4
Lawrence, Mass.	100,560	25	4		1		3		3	2
Lowell, Mass.	113,245	43	4		28		1		3	4
Lynn, Mass.	102,425	36	3	2			5		5	2
Nashville, Tenn.	117,037	56	1		87		1		1	5
New Bedford, Mass.	118,158	30	3		23		1		7	3
New Haven, Conn.	149,685		2		33				7	4
Oakland, Cal.	198,604	15	1		47		18		3	4
Omaha, Nebr.	165,470	42	3		11		23			4
Reading, Pa.	109,381	57	3		4				4	1
Richmond, Va.	156,687		4		33		4		8	9
Salt Lake City, Utah.	117,399	36	4		69	1	23			1
Springfield, Mass.	105,942	30	6	3	8		3		3	
Syracuse, N. Y.	155,624	55	5		15		8		6	6
Toledo, Ohio.	191,551	65	4		5	1	72	3		6
Trenton, N. J.	111,593	53	2				1		5	2
Worcester, Mass.	163,314	55	6		3		6		1	6
From 50,000 to 100,000 inhabit- ants:										
Akron, Ohio.	85,625		12		10		5		7	
Allentown, Pa.	63,505	19			2		3		8	
Atlantic City, N. J.	57,660	10	1		20		2		3	
Bayonne, N. J.	69,893				1		1		2	
Berkeley, Cal.	57,653	4	1		8		4		1	1
Binghamton, N. Y.	53,973	36	10	1	27	3	8		3	3
Brockton, Mass.	67,449	27	3		2		1		2	3
Canton, Ohio.	60,852	23	1		2		3			2
Charleston, S. C.	60,734	44	4							5
Covington, Ky.	57,144	30	2						3	7

DIPHtheria, MEASLES, SCARLET FEVER, AND TUBERCULOSIS-- Continued.

City Reports for Week Ended Feb. 10, 1917--Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 50,000 to 100,000 inhabit- ants--Continued.										
Duluth, Minn.	94,495		3		8		3		4	
Elizabeth, N. J.	86,690	26	5		8		3		5	3
El Paso, Tex.	63,705	60	1		10		1			5
Erie, Pa.	75,195		2		4		4		6	36
Evansville, Ind.	76,078	30	5		36				1	2
Flint, Mich.	54,772	11	7		3		8		1	
Fort Wayne, Ind.	76,183	24	1		1		1			5
Harrisburg, Pa.	72,015	28	2		4					3
Hoboken, N. J.	77,214	19	5		1		16		4	2
Holyoke, Mass.	65,286				2		17		3	
Johnstown, Pa.	68,529	29	1				2		1	1
Kansas City, Kans.	99,437				2		17		3	
Lancaster, Pa.	50,853								2	
Little Rock, Ark.	57,343	25			62		2		1	
Malden, Mass.	51,155	18	3		1		5		4	
Manchester, N. H.	78,283	44	3		2		2		1	1
Mobile, Ala.	58,221	28	1		3		1			4
New Britain, Conn.	53,794		1				2			2
Norfolk, Va.	89,612	2	1		26					
Oklahoma City, Okla.	92,943	23	1		87	2	7			
Passaic, N. J.	71,744	13							2	
Pawtucket, R. I.	59,411	14					1			1
Portland, Me.	63,867	20	2							2
Rockford, Ill.	55,185	11			3		2		3	
Sacramento, Cal.	66,895	26			5		2		5	9
Saginaw, Mich.	55,642	20	1		1		8			
St. Joseph, Mo.	85,226	28	2	1			6	1	3	2
San Diego, Cal.	53,330	24	3		2		3			4
Schenectady, N. Y.	99,519	28			35	1			4	2
Sioux City, Iowa	57,078						3			
Somerville, Mass.	87,039	40	7	2	3		1		3	1
South Bend, Ind.	68,943	20			1		13	1		1
Springfield, Ill.	61,120	32	4		8		1		1	1
Troy, N. Y.	77,916		4	2	30	1	9		9	5
Wichita, Kans.	70,122				57					
Wilkes-Barre, Pa.	76,776	21	4	1	1		2		5	3
Wilmington, Del.	94,265	31					5	1	6	2
York, Pa.	51,666		2		1		1		2	
From 25,000 to 50,000 inhabit- ants:										
Alameda, Cal.	27,732	10			12		16			1
Auburn, N. Y.	37,385	18	1							
Austin, Tex.	34,814	16	5				1			
Brookline, Mass.	32,730	11	3		1		1			
Butler, Pa.	27,632	5	2							1
Butte, Mont.	43,425	24	1		11				1	4
Chelsea, Mass.	46,192	14	2						5	
Chicopee, Mass.	29,319	4	1		1		3		2	
Cumberland, Md.	26,074	8			1		1		1	
Danville, Ill.	32,261	12			2		3		1	
Davenport, Iowa.	39,631		1				4			
Dubuque, Iowa.	39,873				7		1		2	2
East Orange, N. J.	42,458	11					4			
Elgin, Ill.	28,203	13			69		7	1		1
Everett, Mass.	39,233	11	3	1					2	2
Everett, Wash.	35,486	4	1		95					
Fitchburg, Mass.	41,781	20	4	2					4	1
Galveston, Tex.	41,863	27	1						1	6
Haverhill, Mass.	48,477		6		4		1		2	
Jackson, Mich.	35,363	12	7		24		3		2	
Kalamazoo, Mich.	48,886	21			4		5		5	3
Kenosha, Wis.	31,576	8	1		1				1	
Knoxville, Tenn.	38,676				29					
La Crosse, Wis.	31,677	14	2				1		1	3
Lexington, Ky.	41,097	22	1		20		2			5
Lincoln, Nebr.	46,515	11			13		2			2
Long Beach, Cal.	27,587	13								
Lynchburg, Va.	32,940	19			23				1	3
Madison, Wis.	30,699				1		5			1
McKeesport, Pa.	47,521	24	1	1			1			1

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Feb. 10, 1917—Continued.

City.	Population as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabitants—Continued.										
Medford, Mass.	26,234	7	2		16				1	
Montclair, N. J.	26,318	5							1	1
Newburgh, N. Y.	29,603								1	1
New Castle, Pa.	41,133				3		1			
Newport, Ky.	31,927	7								
Newton, Mass.	43,715	11			8		2		1	
Niagara Falls, N. Y.	37,353	23	2		1		1		2	
Norristown, Pa.	31,401	14	1		1					
Orange, N. J.	33,080	9			2				3	1
Pasadena, Cal.	46,450	8	1		1		3		1	1
Perth Amboy, N. J.	41,185		5				2		3	
Pittsfield, Mass.	38,629	10								1
Portsmouth, Va.	39,651	15	1	1	13		2			2
Quincy, Ill.	36,798	13	1		4					1
Quincy, Mass.	38,136	12	1		5		2		1	1
Racine, Wis.	46,486	11	1							
Roanoke, Va.	43,284	13	1		74					
San Jose, Cal.	38,902	7	1		5		1		2	
Steubenville, Ohio	27,445	11								
Superior, Wis.	46,226	15	1							1
Taunton, Mass.	36,283	18					2		4	1
Topeka, Kans.	48,726	12			57	1				
Waltham, Mass.	30,570	5	2				1			
Watertown, N. Y.	29,994	13			14					
West Hoboken, N. J.	43,139	6					1			
Wheeling, W. Va.	43,377	24			3		1		1	2
Williamsport, Pa.	33,800		4	1	4		1			
Winston-Salem, N. C.	31,155	12			75		2		5	
Zanesville, Ohio.	30,863	14							2	1
From 10,000 to 25,000 inhabitants:										
Ann Arbor, Mich.	15,010	9	2	1			3		2	
Beaver Falls, Pa.	13,532				1					
Braddock, Pa.	21,685		1							
Cairo, Ill.	15,794	9	1		63		1			2
Clinton, Mass.	13,075	4			5					
Coffeyville, Kans.	17,548		1							
Concord, N. H.	22,669	12	4							
Harrison, N. J.	16,950								1	
Kearny, N. J.	23,539	8	1						1	
Kokomo, Ind.	20,930	8	1		7					1
Morristown, N. J.	13,284	6					1		1	
Muscatine, Iowa.	17,500				66					
Newburyport, Mass.	15,243	4			7					
New London, Conn.	20,985	6	1							
North Adams, Mass.	22,019	8	2							
Northampton, Mass.	19,926	9			6		2		2	2
Plainfield, N. J.	23,805	9							3	1
Portsmouth, N. H.	11,666				1					
Rocky Mount, N. C.	12,067	3	2		23					
Rutland, Vt.	14,531	8	2		14		7			
Sandusky, Ohio.	20,193	1					1		1	1
Saratoga Springs, N. Y.	13,821	8					3		1	
Steelton, Pa.	15,548	4							2	1

¹ Population Apr. 15, 1910; no estimate made.

FOREIGN.

CHINA.

Examination of Rats—Shanghai.

During the week ended January 6, 1917, 219 rats were examined at Shanghai. No plague infection was found. The last plague-infected rat at Shanghai was reported found during the week ended May 6, 1916.

Plague-Infected Rats—Hongkong.

Plague-infected rats have been reported found at Hongkong as follows: During the week ended December 30, 1916, out of 1,974 rats examined, 2 were found plague infected; during the week ended January 6, 1917, out of 2,103 rats examined, 1 was found plague infected.

INDIA.

Cholera—Calcutta.

An increase in the prevalence of cholera at Calcutta was noted during the last week in November and the month of December, 1916. From October 15 to November 25, 43 fatal cases of cholera were notified and from November 26 to December 30, 98 fatal cases. A sudden rise in mortality was observed during the week ended December 23, 1916, and a considerable degree of diffusion during the week ended December 30, 1916, 15 wards of the city having reported the occurrence of cases as compared with 9 reporting during the preceding week. No cholera infection was reported in the port or shipping.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During the Week Ended Mar. 2, 1917.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Calcutta.....	Dec. 10-30.....		68	
Madras.....	Dec. 30-Jan. 6.....	3	2	
Philippine Islands:				
Manila.....	Dec. 31-Jan. 6.....	2	1	Not previously reported: Cases, 1. Dec. 31, 1916-Jan. 6, 1917: Cases, 136; deaths, 97.
Provinces.....				
Albay.....	Dec. 31-Jan. 6.....	6	5	
Antique.....	do.....	2	2	
Bataan.....	do.....	2	3	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received During the Week Ended Mar. 2, 1917—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Contd.				
Provinces—Continued.				
Capiz.....	Dec. 31-Jan. 6.....	2	.....	
Cavite.....	do.....	26	14	
Iloilo.....	do.....	9	5	
Leyte.....	do.....	31	28	
Mindoro.....	do.....	5	4	
Pampanga.....	do.....	1	1	
Rizal.....	do.....	1	.....	
Samar.....	do.....	51	33	
Philippine Islands:				
Provinces.....				Jan. 7-13, 1917: Cases, 132; deaths, 101.
Albay.....	Jan. 7-13.....	5	5	
Capiz.....	do.....	18	14	
Cavite.....	do.....	2	3	
Cebu.....	do.....	4	2	
Iloilo.....	do.....	24	20	
Leyte.....	do.....	42	32	
Mindoro.....	do.....	2	2	
Misamis.....	do.....	3	1	
Negros Occidental.....	do.....	32	22	

PLAGUE.

India.....				Dec. 10-23, 1916: Cases, 26,535; deaths, 19,922.
Bassein.....	Dec. 17-23.....	.....	2	
Bombay.....	Dec. 31-Jan. 6.....	8	6	
Karachi.....	do.....	1	1	
Madras.....	Dec. 30-Jan. 6.....	3	2	
Madras Presidency.....	Dec. 31-Jan. 6.....	851	590	
Prome.....	Dec. 10-23.....	.....	58	

SMALLPOX.

Brazil:				
Bahia.....	Dec. 17-23.....	1	.....	
China:				
Hongkong.....	Dec. 31-Jan. 6.....	69	40	
France:				
Paris.....	Dec. 17-23.....	1	.....	
India:				
Bombay.....	Dec. 31-Jan. 6.....	8	.....	
Karachi.....	do.....	1	.....	
Madras.....	do.....	11	5	
Russia:				
Archangel.....	Dec. 16-29.....	1	1	
Straits Settlements:				
Penang.....	Dec. 17-23.....	3	.....	
Singapore.....	do.....	1	.....	
Tunisia:				
Tunis.....	Jan. 13-19.....	7	3	
Turkey in Asia:				
Trebizond.....	Dec. 17-30.....	6	3	

TYPHUS FEVER.

Greece:				
Saloniki.....	Dec. 5-11.....	.....	4	
Russia:				
Archangel.....	Dec. 16-29.....	19	5	
Sweden:				
Stockholm.....	Dec. 31-Jan. 6.....	1	.....	
Turkey in Asia:				
Trebizond.....	Dec. 17-30.....	3	3	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Feb. 23, 1917.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Nov. 5-Dec. 23....	13	12	Oct. 8-14, 1916: Cases, 3.
Calcutta.....	Oct. 15-Dec. 9....	93	93	
Madras.....	Nov. 5-Dec. 16....	5	5	
Rangoon.....	Nov. 26-Dec. 16....	2	3	
Indo-China.....				June 1-July 31, 1916: Cases, 3,578; deaths, 2,578.
Provinces—				
Anam.....	June 1-30.....	446	367	
Do.....	July 1-Sept. 30....	636	505	
Cambodia.....	June 1-30.....	13	9	
Do.....	July 1-Sept. 30....	22	18	
Cochin-China.....	June 1-30.....	137	76	
Do.....	July 1-Sept. 30....	98	59	
Kouang-Tcheou-Wan.....	do.....	216	200	
Laos.....	June 1-30.....	40	29	
Do.....	July 1-Sept. 30....	637	616	
Tonkin.....	June 1-30.....	1,276	775	
Do.....	July 1-Sept. 30....	969	709	
Japan:				
Fukuoka.....	Jan. 19.....	33	4	
Nagasaki.....	Nov. 27-Dec. 3....	9	4	
Osaka.....	Nov. 16-Dec. 23....	23	57	Aug. 13-Dec. 25, 1916: Cases, 971; deaths, 754.
Do.....	Dec. 26-Jan. 11....	16	8	Jan. 6-16, 1917: Cases, 9.
Taiwan Island—				
Keelung.....	Nov. 13-Dec. 23....	5	7	
Taihoku.....	do.....	14	5	
Yokohama.....	Nov. 6-Dec. 3....	5	3	
Districts.....	do.....	1	1	
Java:				
East Java.....	Oct. 14-17.....	5	3	
West Java.....				
Batavia.....	Nov. 17-30.....	22	9	Nov. 17-30, 1916: Cases, 131; deaths, 63.
Philippine Islands:				
Manila.....	Oct. 29-Dec. 30....	201	70	Not previously reported: Cases, 49; deaths, 2.
Provinces.				Oct. 29-Dec. 9, 1916: Cases, 4,191; deaths, 2,030.
Albay.....	Oct. 29-Dec. 9....	246	147	
Do.....	Dec. 17-30.....	20	10	
Antique.....	Nov. 18-25.....	8	7	
Bataan.....	Oct. 29-Dec. 9....	93	77	
Do.....	Dec. 17-23.....	2	2	
Batangas.....	Oct. 29-Nov. 18....	1	1	
Bohol.....	Oct. 29-Dec. 9....	46	18	
Do.....	Dec. 17-23.....	1	1	
Bulacan.....	Oct. 29-Dec. 9....	96	67	
Do.....	Dec. 17-23.....	10	6	
Camarines.....	Oct. 29-Dec. 9....	61	37	
Capiz.....	do.....	45	34	
Do.....	Dec. 17-30.....	27	23	
Cavite.....	Oct. 29-Dec. 9....	156	113	
Do.....	Dec. 17-30.....	24	13	
Cebu.....	Dec. 24-30.....	12	6	
Iloilo.....	Oct. 29-Dec. 9....	237	148	
Do.....	Dec. 17-30.....	37	31	
Laguna.....	Nov. 2-25.....	12	10	
Leyte.....	Oct. 29-Dec. 9....	127	98	
Do.....	Dec. 17-30.....	90	62	
Masbate.....	Dec. 17-23.....	8	2	
Misamis.....	Oct. 29-Dec. 9....	126	79	
Do.....	Dec. 17-30.....	17	12	
Negros Occidental.....	Oct. 29-Dec. 9....	910	553	
Do.....	Dec. 24-30.....	11	5	
Pampanga.....	Dec. 3-9.....	4	3	
Do.....	Dec. 17-23.....	6	5	
Rizal.....	Oct. 29-Dec. 9....	27	14	
Do.....	Dec. 17-30.....	4	4	
Samar.....	Nov. 5-18.....	13	10	
Sorsogon.....	Oct. 29-Dec. 2....	131	71	
Do.....	Dec. 17-23.....	1	2	
Tayabas.....	Nov. 5-18.....	1	1	
Zamboales.....	Oct. 29-Dec. 2....	7	1	
Straits Settlements:				
Singapore.....	Oct. 22-28.....	2	2	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Feb. 23, 1917—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey in Asia.....				Sept. 22-Dec. 12, 1916: Cases, 258; deaths, 117.
Bagdad.....	Nov. 6-30.....	17	6	
Beirut.....	Dec. 7-12.....	2	1	
Tarsus.....	Nov. 7.....	1	1	
Turkey in Europe:				
Constantinople.....	Oct. 1-Nov. 17.....	8	1	

PLAGUE.

Brazil:				
Bahia.....	Nov. 5-Dec. 16.....	15	9	Jan. 1-Nov. 11, 1916: Cases, 14; deaths, 7. Nov. 5-11; Cases, 4; deaths, 2.
Joazeiro.....				June 1-Nov. 6, 1916: Cases, 67; deaths, 51.
Ceylon:				
Colombo.....	Oct. 29-Dec. 30.....	50	30	July 23-29, 1916: Cases, 9; deaths, 8.
Chile:				
Tocopilla.....	Sept. 12.....	1	1	
China:				
Amoy, vicinity.....	Nov. 19-Dec. 2.....			Present.
Hongkong.....	Dec. 24-30.....	1	1	
Kansu Province—				
Taochow.....	Oct. 1-24.....		20	Pneumonic. Reported present in other localities in Province. Sept. 1-Nov. 30, 1916; Cases, 156; deaths, 57.
Ecuador:				
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-30.....	21	7	
Do.....	Oct. 1-31.....	43	13	
Do.....	Nov. 1-30.....	88	35	
Milagro.....	do.....	1	1	
Nobol.....	Oct. 1-31.....	1	1	
Santa Rosa.....	Sept. 1-30.....	1	1	
Egypt.....				Jan. 1-Dec. 30, 1916: Cases, 1,702; deaths, 828.
Alexandria.....	Nov. 12-Dec. 25.....	4	3	1 case on s. s. Proton, arrived Nov. 16, 1916, from Sidi Barand and Sollum.
Port Said.....	Dec. 11.....	1		
Do.....	Jan. 18.....	1	1	Oct. 15-Dec. 9, 1916: Cases, 62,977; deaths, 47,146.
India.....				
Bassein.....	Oct. 22-Dec. 2.....		3	Oct. 8-14, 1916: Cases, 13; deaths, 7. Received out of date. Original report lost on s. s. Arabia.
Bombay.....	Nov. 5-Dec. 30.....	73	59	Oct. 8-14, 1916: Cases, 1; deaths, 1.
Karachi.....	Oct. 29-Dec. 23.....	3	2	Oct. 8-14, 1916: Cases, 534; deaths, 353. Sept. 17-23, 1916: Cases, 429; deaths, 280.
Do.....	Dec. 24-30.....	1	1	
Madras.....	Nov. 19-Dec. 16.....	6	3	
Madras Presidency.....	Nov. 5-Dec. 16.....	4,003	2,677	
Mandalay.....	Oct. 23-Nov. 18.....		2	
Moulmein.....	Dec. 3-9.....		1	
Prome.....	Oct. 22-Dec. 9.....		96	
Rangoon.....	Oct. 28-Dec. 16.....	27	24	Oct. 1-7, 1916: Cases, 9; deaths, 9.
Toungoo.....	Oct. 22-Dec. 9.....		10	
Indo-China.....				June 1-30, 1916: Cases, 75; deaths, 5; July 1-Sept. 30, 1916: Cases, 164; deaths, 98.
Provinces—				
Anam.....	June 1-30.....	27	10	
Do.....	July 1-Sept. 30.....	51	32	
Cambodia.....	June 1-30.....	17	16	
Do.....	July 1-Sept. 30.....	33	31	
Cochin-China.....	June 1-30.....	31	18	
Do.....	July 1-Sept. 30.....	53	19	
Kouang-Tcheou-Wan.....	July 1-31.....	27	6	
Saigon.....	Nov. 6-19.....	3	1	
Japan:				
Nagoya.....	Dec. 10-16.....	2		
Yokkaichi.....	Nov. 12-Dec. 16.....	32	12	
Java:				
East Java.....				Aug. 26-Nov. 3, 1916: Cases, 63; deaths, 62.
Djocja Residency.....	Nov. 4-17.....	1	1	
Kediri Residency.....	Aug. 26-Nov. 3.....	18	16	
Madjoen.....	do.....	8	8	
Paseroean Residency.....	do.....	3	3	
Samarang.....	do.....	5	5	
Surabaya Residency.....	Aug. 26-Nov. 17.....	27	28	
Surakarta Residency.....	Aug. 26-Nov. 3.....	15	15	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Feb. 23, 1917—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java—Continued.				
Mid-Java—				
Samarang.....	Aug. 23-Nov. 3....	1	1	
Siam:				
Bangkok.....	Oct. 22-Dec. 2....	5	3	
Straits Settlements:				
Singapore.....	do.....	5	5	
Union of South Africa:				
Cape of Good Hope State—				
Uitenhage district.....	Oct. 31-Nov. 12...	2	2	Total, Oct. 23-Nov. 12, 1916: Cases, 24; deaths, 13.

SMALLPOX.

Australia:				
New South Wales—				
Coonamble.....	Dec. 8.....	1		
Austria-Hungary:				
Austria—				
Vienna.....	Nov. 12-Dec. 9....	8	1	
Hungary—				
Budapest.....	Nov. 5-Dec. 23....	73	2	
Brazil:				
Bahia.....	Nov. 12-Dec. 2....	4		
Rio de Janeiro.....	Nov. 12-Dec. 30...	50	12	
Canada:				
Ontario—				
Sarnia.....	Jan. 28-Feb. 10....	1		
Toronto.....	do.....	2		
China:				
Amoy.....	Oct. 31-Dec. 9....			Present. Dec. 10-16, 1916: Cases, 3.
Antung.....	Jan. 8-14.....	2	1	
Canton.....	Nov. 1-Dec. 20....		14	
Chungking.....	Oct. 28-Dec. 23....			Present.
Dairen.....	Nov. 5-Dec. 30....	63	8	
Do.....	Dec. 31-Jan. 6....	5	7	
Foochow.....	Oct. 29-Dec. 16....			Do.
Harbin.....	Nov. 6-19.....	2		
Hongkong.....	Oct. 28-Dec. 30....	349	243	
Mukden.....	Dec. 9-30.....			Do.
Do.....	Dec. 31-Jan. 13....			Do.
Nanking.....	Nov. 12-25.....			Do.
Tientsin.....	Dec. 17-30.....	1	1	
Tsingtao.....	Dec. 1-9.....	3		
Cuba:				
Casa Blanca.....	Jan. 12.....	1		Vicinity of Habana. Case landed Jan. 1, 1917, from s. s. Alfonso XII, from Santander, Spain.
Enerueijada.....	Jan. 10.....	1		In Santa Clara Province. Case landed from s. s. Montevideo from Barcelona, via Las Palmas, Canary Islands, and Porto Rico; arrived at Habana Jan. 6, 1917.
Guanabacoa.....	Jan. 9.....	1		Vicinity of Habana. Case landed from s. s. Montevideo.
Habana.....	Jan. 10-20.....	2		At Mariel quarantine station. From s. s. Montevideo.
Ecuador:				
Guayaquil.....	Nov. 1-30.....	10	1	
Egypt:				
Alexandria.....	Dec. 25-31.....		3	
Cairo.....	June 11-July 1....	50	20	
Do.....	July 2-Sept. 9....	59	20	
Port Said.....	June 11-17.....	1	1	
Do.....	Aug. 20-Sept. 9....	2	1	
France:				
Marseille.....	Oct. 1-Nov. 30....		14	
Hawaii:				
Honolulu.....	Jan. 9.....	1		From s. s. Tenyo Maru from oriental ports.
Do.....	Jan. 24.....	1		From s. s. Ecuador from Hong-kong.
India:				
Bombay.....	Dec. 10-30.....	5	1	Oct. 8-14, 1916: Cases, 3; deaths, 3. Received out of date. Original report lost on s. s. Arabia.
Calcutta.....	Nov. 5-Dec. 2.....		2	
Madras.....	Nov. 5-Dec. 16....	22	8	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Feb. 23, 1917—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India—Continued.				
Moulmein.....	Oct. 28-Nov. 4.....	.....	4	
Rangoon.....	Oct. 28-Dec. 16.....	14	1	
Indo-China.....				June 1-30, 1916; Cases, 53; deaths, 11. July 1-Sept. 30, 1916: Cases, 157; deaths, 83.
Provinces—				
Anam.....	June 1-30.....	4	1	
Do.....	July 1-Sept. 30.....	22	10	
Cambodia.....	June 1-30.....	11	4	
Do.....	July 1-Sept. 30.....	14	6	
Cochin-China.....	June 1-30.....	19	5	
Do.....	July 1-Sept. 30.....	81	35	
Laos.....	Aug. 1-Sept. 30.....	29	28	
Tonkin.....	June 1-30.....	19	1	
Do.....	July 1-Aug. 31.....	11	5	
Saigon.....	Nov. 6-Dec. 10.....	28	6	
Japan:				
Kobe.....	Nov. 28-Dec. 10.....	4	1	
Do.....	Jan. 1-7.....	1	.....	
Java:				
East Java.....				Sept. 16-Nov. 10, 1916: Cases, 77; deaths, 2.
Surabaya.....	Nov. 4-10.....	1	.....	Sept. 16-Nov. 17, 1916: Cases, 111; deaths, 11.
Mid-Java.....				Sept. 29-Nov. 30, 1916: Cases, 330; deaths, 49.
Samarang.....	Nov. 4-10.....	3	.....	
West Java.....				
Batavia.....	Sept. 29-Nov. 30.....	35	8	
Mexico:				
Mexico City.....	Dec. 10-30.....	20	.....	
Do.....	Dec. 31-Jan. 6.....	6	.....	
Nuevo Laredo.....	Dec. 10-30.....	1	.....	
Portugal:				
Lisbon.....	Nov. 19-Dec. 2.....	6	.....	
Portuguese East Africa:				
Lourenco Marques.....	Sept. 1-30.....	.....	1	
Russia:				
Archangel.....	Nov. 25-Dec. 8.....	5	.....	
Moscow.....	Oct. 16-Dec. 18.....	43	12	Nov. 13-25, 1916: Cases, 35; deaths, 8.
Petrograd.....	Oct. 8-Nov. 25.....	95	31	
South Africa:				
Johannesburg.....	Nov. 26-Dec. 2.....	15	.....	
Spain:				
Cadiz.....	Nov. 1-Dec. 31.....	.....	3	
Madrid.....	Nov. 1-Dec. 31.....	.....	144	Jan. 1-Dec. 31, 1916: Deaths, 405.
Malaga.....	Sept. 1-Oct. 31.....	.....	2	
Seville.....	Nov. 1-30.....	.....	22	
Valencia.....	Nov. 19-Dec. 23.....	5	1	
Do.....	Jan. 14-20.....	1	.....	
Straits Settlements:				
Penang.....	Oct. 28-Dec. 16.....	11	3	
Singapore.....	Nov. 19-Dec. 9.....	2	1	
Switzerland:				
Basel.....	Nov. 5-11.....	1	.....	
Do.....	Dec. 31-Jan. 13.....	6	.....	
Tunisia:				
Tunis.....	Nov. 25-Dec. 15.....	51	27	
Do.....	Dec. 30-Jan. 12.....	20	4	
Turkey in Asia:				
Trebizond.....	Nov. 11-Dec. 16.....	1	1	
Union of South Africa:				
Johannesburg.....	Sept. 10-Nov. 28.....	25	.....	
On vessel:				
S. S. Nippon Maru.....	Jan. 22.....	2	.....	Landed at Yokohama quarantine.
Do.....	Jan. 21-Feb. 3.....	3	.....	En route to Honolulu. Vessel from oriental ports.

TYPHUS FEVER.

Argentina:				
Rosario.....	Nov. 1-30.....	.....	1	
Austria-Hungary:				
Austria—				
Vienna.....	Nov. 5-Dec. 23.....	20	1	
Hungary—				
Budapest.....	do.....	3	1	
Belgium:				
Ghent.....	Oct. 29-Nov. 4.....	.....	1	
Liege.....	do.....	.....	1	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Feb. 23, 1917—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	Nov. 27-Dec. 10....	6		
Hankow.....	Nov. 12-18.....	1		
Tientsin.....	Oct. 29-Nov. 4....	1		
Cuba:				
Santiago.....	Dec. 7-13.....	1	1	
Egypt:				
Alexandria.....	Nov. 12-Dec. 31....	28	12	Nov. 19-25, 1916: 1 case; Dec. 17-23, 1916: Cases, 4.
Do.....	Jan. 1-7.....	4	3	
Cairo.....	June 11-July 1.....	275	142	
Do.....	July 2-Sept. 16....	252	133	
Port Said.....	June 11-17.....	20	9	
Do.....	July 2-Sept. 2....	7	6	
Germany:				
Berlin.....	Oct. 15-Dec. 9.....		5	
Bremen.....	Oct. 22-Nov. 18....	1	2	
Frankfort-on-Main.....	Nov. 12-18.....		1	
Königsberg.....	Nov. 12-Dec. 23....	5	5	
Do.....	Dec. 31-Jan. 6.....		1	
Nuremberg.....	Oct. 29-Nov. 11....	3		
Great Britain:				
Cork.....	Jan. 7-13.....	1		
Glasgow.....	Dec. 3-30.....	4		
Do.....	Jan. 7-13.....		1	
Greece:				
Saloniki.....	Nov. 7-Dec. 4.....		21	
Java:				
East Java.....				Sept. 16-Nov. 3, 1916: Cases, 9.
Mid-Java.....				Sept. 16-Nov. 10, 1916: Cases, 54;
Samarang.....	Nov. 4-10.....	7		deaths, 7.
West Java.....				Sept. 29-Nov. 30, 1916: Cases, 130;
Batavia.....	Sept. 29-Nov. 30....	99	9	deaths, 10.
Mexico:				
Aguascalientes.....	Dec. 22.....			Epidemic.
Ciudad Juarez.....				July, 1916-Feb. 5, 1917: Cases, 100
Durango.....	Dec. 12.....			(estimated).
Mexico City.....	Dec. 3-30.....	835		Present.
Do.....	Dec. 31-Jan. 6.....	162		
Nuevo Laredo.....	Dec. 10-16.....	4		July 1-Dec. 16, 1916: Cases, 28.
Netherlands:				
Rotterdam.....	Nov. 26-Dec. 30....	8		
Russia:				
Moscow.....	Oct. 16-Nov. 25....	55	4	
Archangel.....	Nov. 25-Dec. 8.....	10	4	
Petrograd.....	Oct. 8-Dec. 2.....	139	42	
Spain:				
Madrid.....	Nov. 1-Dec. 31....		3	Jan. 1-Dec. 31, 1916: Deaths, 35.
Sweden:				
Stockholm.....	Nov. 28-Dec. 4.....	1		
Do.....	Jan. 23-30.....	2		
Switzerland:				
Zurich.....	Dec. 3-9.....	1		
Do.....	Jan. 7-13.....	1		
Tunisia:				
Tunis.....	Dec. 16-22.....	1		
Turkey in Asia:				
Haifa.....	Oct. 16-22.....	1		

YELLOW FEVER.

Brazil:				
Victoria.....	Jan. 27.....			Present.
Ecuador:				
Babahoyo.....	Nov. 1-30.....	1	1	
Chobo.....	do.....	1		
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-30.....	17	5	
Do.....	Oct. 1-31.....	15	12	
Do.....	Nov. 1-30.....	6	3	
Milagro.....	Sept. 1-30.....	1		
Do.....	Oct. 1-31.....	2	1	
Gold Coast				In 1915: Cases, 2; deaths, 2. Eu-
				ropean and native.