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POLIOMYELITIS IN THE UNITED STATES.

Poliomyelitis has been epidemic during the past two or three years in certain parts of the United States. Because of its infectious nature and the distressing sequelæ with which it frequently leaves its victims it has aroused much merited interest on the part of public health officials.

It is desirable to ascertain as correctly as possible its actual prevalence and geographic distribution. For this purpose the following letter was sent on August 9, 1910, to the secretaries of the state and territorial boards of health:

WASHINGTON, *August 9, 1910.*

DEAR SIR: It is desired to ascertain as accurately as possible the general prevalence and geographic distribution of anterior poliomyelitis (infantile paralysis) in the United States. If the information is available for your State, it will be appreciated if you will have the attached blank filled out and returned in the addressed envelope inclosed.

Sincerely, yours,

WALTER WYMAN,
Surgeon-General.

This letter had attached to it a blank asking the number of cases of and deaths from poliomyelitis which had been reported in 1909 and the number of cases and deaths *estimated* to have occurred; also the cases and deaths reported for each of the months January to July, inclusive, 1910. From the replies the following information has been taken:

COLORADO.

There was one death from poliomyelitis at Cripple Creek during July, 1909.

CONNECTICUT.

Poliomyelitis did not attract attention until June, 1910, when a slight outbreak occurred at Meriden with 1 death. Previous to this the disease was not reportable to the state board of health. During July 18 cases with 2 deaths were reported, as follows: Groton (borough), 1 case; Meriden (city), 13 cases with 1 death; New Britain, 2 cases with 1 death; New London, 1 case; Suffield, 1 case.

DISTRICT OF COLUMBIA.

The disease is not required by law to be reported. In compliance with the health officer's request, however, the physicians began

reporting cases during the latter part of July, 1910. Up to July 31, 7 cases were reported. During the first 19 days of August 64 cases were reported. One death from poliomyelitis was recorded during the calendar year 1909.

FLORIDA.

No cases reported and none known to have occurred.

ILLINOIS.

During July, 1909, an epidemic of poliomyelitis developed in Champaign County, in the vicinity of Rantoul, Gifford, and Penfield, and in Vermilion County, at Armstrong, 32 cases being reported (no deaths). (Monthly Bulletin Illinois State Board of Health, December, 1909.)

KENTUCKY.

The secretary of the Kentucky State Board of Health states that poliomyelitis is common in many sections of the State, but that at the present time statistics of its prevalence are not available.

KANSAS.

Poliomyelitis prevailed in epidemic form in Kansas during the summer of 1909. It had previously appeared at various times in sporadic form, but the outbreak of 1909 in which there were over 100 cases, was the first recorded epidemic. The cases occurred mainly in July, August, and September, with a few cases as late as the last of November. Of 57 cases studied, 27 lived in town or city and 30 on farms. During 1910, 57 cases and 15 deaths were reported in July, and from August 1 to 20, 20 cases and 4 deaths. (Bulletin Kansas State Board of Health, July, 1910.)

MAINE.

The secretary of the state board of health states that poliomyelitis is not a notifiable disease in Maine and that but few reports of cases have been received. Cases have, however, been reported in 3 different towns.

MASSACHUSETTS.

During the years 1907, 1908, and 1909 poliomyelitis was present in Massachusetts, occurring in scattered foci in all parts of the State. In 1907, 234 cases were recorded; in 1908, 136 cases; in 1909, 923 cases. There were 51 deaths in 1909 in 628 cases studied, giving a mortality of 8 per cent. (Monthly Bull. Mass. State Bd. of Health, June, 1910.)

MICHIGAN.

The secretary of the state board of health states that up to the present time (August) there has been no known epidemic of poliomyelitis in Michigan.

MINNESOTA.

Outbreaks of poliomyelitis occurred in Minnesota in 1908 in Northfield, Barnum, and Hibbing. In 1909, 238 deaths and about 400 cases were reported. It is estimated, however, that there were probably 1,000 or 1,100 cases. During the present year 86 deaths

had been reported up to the end of June. This would indicate at least 180 cases. (H. W. Hill, Director Epidemiological Division, Minnesota State Board of Health.)

PENNSYLVANIA.

The commissioner of health states that during July, 1910, 152 cases of poliomyelitis were reported in Pennsylvania, and from August 1 to 18, 105 cases. During August there were two good-sized outbreaks, up to the 18th of the month about 80 cases having been returned from the valley of the Lehigh River in the vicinity of Bethlehem, Allentown, and Easton, and nearly 60 cases from Lancaster County, 37 being in the city of Lancaster and the others in outlying townships. Scattering cases have been found in 32 of the 67 counties.

Cases and deaths reported.

State.	Year 1909.		Year 1910.												Remarks.		
	Cases.	Deaths.	Jan-uary.		Feb-ruary.		March.		April.		May.		June.			July.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.		Cases.	Deaths.
Colorado.....	1	1															At Cripple Creek.
Connecticut.....														1	18	2	
Delaware.....																2	1
District of Columbia.....			1													7	Aug. 1 to 19, 64 caess.
Idaho.....									1	1	1		5	1	44	4	
Illinois.....	32																
Iowa.....																	January 1 to August 24, 1910, 186 cases, 29 deaths, widely distributed throughout State. (Iowa Health Bulletin.)
Kansas.....	85	25													57	15	Aug. 1 to 20, 20 cases, 4 deaths.
Kentucky.....																	Present.
Maine.....																	Do.
Maryland.....																1	3
Massachusetts.....	923		8	1	2	3	8									3	June and July, 1910, 184 cases reported.
Minnesota.....		238															January to June 1910, 36 deaths.
New Hampshire.....																5	2
North Dakota.....																11	
Oklahoma.....	1	1			1	1					1						January to August, 1910, 5 cases, 4 deaths.
Oregon.....		9											2	2	18	5	Part of August, 22 cases, 5 deaths.
Pennsylvania.....																152	Aug. 1 to 18, 105 cases.
Rhode Island.....										3	2					30	Aug. 1 to 25, 60 cases.
Vermont.....																	6 cases reported during first part of August.
Washington.....		1								7	24	1			40	1	August, 65 cases, 8 deaths.

No information in regard to the disease is available in the following named States: Alabama, Georgia, Montana, Nevada, Ohio, Tennessee, Utah, Virginia, and West Virginia.

The information for New York State is not available for insertion at this time.

The following named States have not been heard from: Arizona, Arkansas, California, Indiana, Louisiana, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, South Carolina, South Dakota, Texas, Wisconsin, and Wyoming.

To make the study of the prevalence of poliomyelitis continuous the following letter was sent on September 20 to the executive officers of the state and territorial boards of health and health departments:

WASHINGTON, September 20, 1910.

DEAR SIR: Because of the apparently unusual prevalence of poliomyelitis in the United States it is desired to keep informed in regard to the geographical distribution and progress of the disease. It will be appreciated, therefore, if you will, so far as possible, forward to this bureau a monthly memorandum of the course of the disease in your State, beginning with the month of August, and using for this purpose the addressed cards inclosed herewith. This will be supplemental to and a continuation of the information requested in bureau letter of August 9, the blank contained in said letter having provided for a report by months up to and including July.

Respectfully,

WALTER WYMAN, Surgeon-General.

The card inclosed with the above letter reads as follows:

POLIOMYELITIS—MONTHLY REPORT.

Report from the State of....., for the month of..... Total cases reported throughout the State, Total deaths, Localities where the disease prevailed:

Signature

Address

Date,, 191

THE HISTORY, DEVELOPMENT, AND STATISTICS OF MILK CHARITIES IN THE UNITED STATES.*

Prepared by direction of the Surgeon-General.

By J. W. KERR, Assistant Surgeon-General, United States Public Health and Marine-Hospital Service.

In his address as retiring president of the Association of American Medical Milk Commissions, June 1, 1908, Dr. Henry L. Coit invited renewed attention to the need of statistics relating to infant mortality and the factors underlying its causation. At the same time he urged the adoption of some plan looking to the collection of statistics of milk charities, the principle of which should be the assisting of individual physicians in cities to report the information in their possession, and it was suggested that there should be a standing committee of that association on morbidity and mortality due to milk. As a result of these suggestions, provision was made for such a committee, and Doctor Coit was made chairman with power to enlarge it, looking toward the collection of statistics concerning the work of associations through milk dispensaries, and clinical work for the protection of infant life.

That there is need of such information can not be questioned. Morbidity statistics are of even greater importance to the sanitarian than mortality statistics. They not only indicate the severity of disease and its damage to society, but serve as a guide to prompt sanitary action. The collection of such statistics, however, has not thus far been very successful, and those relating to the prevention of infant morbidity are fragmentary in the extreme.

Information is especially needed regarding, first, the amount of infant morbidity and mortality; second, the social and sanitary conditions bringing it about; and third, the measures thus far taken for its amelioration. Knowledge regarding these three points would go far to determining the fate of the new-born child.

The history and growth of the pure-milk movement is well known to the members of the association of medical milk commissions, and its importance is beginning to be appreciated by the public generally. Safe milk is a fundamental necessity, especially to infants, and one of the present urgent problems is its proper administration to those members of society.

As a result of necessity, various plans have been devised to encourage maternal feeding, and when this is impossible, to supply a pure milk to meet the special needs of infants. One of these was the establishment of the infants' milk depot.

In connection with other studies of milk in its relation to the public health, in 1907, the Surgeon-General of the Public Health and Marine-Hospital Service thought it desirable to inquire briefly into the origin of such depots in the United States, and the amount of work performed by them. The data accumulated was published in Hygienic Laboratory Bulletin No. 41, and with some revision, republished in Bulletin No. 56. The fact was elicited that the first institution of this character to dispense milk was founded in the United States in 1889,

* Presented before American Association of Medical Milk Commissions, June 6, 1910

and that similar institutions had subsequently been established in at least 20 cities of the country. When this study was begun, it was the object to continue it, and when the Surgeon-General was notified of the action of the above-mentioned association in appointing a committee for a like purpose, it was his desire to cooperate in any way possible in order to secure further statistics.

The writer having been made a member of the committee, arrangements were made whereby the Bureau of Public Health would resume the work, and the Surgeon-General addressed letters to all of the medical milk commissions, or milk dispensaries, and milk committees, whose addresses were available, and to health officers in all towns in the United States over 20,000. In this letter he requested information on the following points:

1. The name of any organized agency, such as children's hospital, dispensary, milk depot, milk commission, or visiting association for the protection of infant life.
2. The objects and method of such agency, and how maintained.
3. Any special measures taken in the education of mothers in infant hygiene.
4. The character of the instructions, and whether given by means of literature or by physicians and nurses.
5. Whether the instructions are given at the homes or at central "consultations."
6. Whether or not the agency distributes milk to infants and invalids.
7. Whether the milk is sold to the poor, or given to them outright.
8. What proportion of its cost is charged.
9. What proportion of those benefited are children, invalid adults, or nursing mothers.
10. What proportion of the children are sick when first given the milk.
11. What proportion of the children are well while the distribution of the milk is in progress, both in winter and summer.
12. What are the average ages of the children being fed.
13. Whether literature on infant hygiene is distributed with the milk.
14. How many individuals were fed during the year 1909.
15. Whether the milk is distributed in bulk or in individual feedings.
16. What quantity of milk was distributed during 1909.
17. How many modifications of mixtures of milk are furnished.
18. For what ages they are designed.
19. Whether the milk is heated or used raw.
20. If heated, to what temperature, and how long.
21. Whether heat is applied winter and summer alike.
22. What grade of milk is employed in the work.
23. What was the mortality rate in the particular city for infants under 1 year of age.
24. What was the mortality rate among the number of children who had been fed on dispensary milk one month or over during 1909.

Following this inquiry there were received a large number of replies from the officers of medical milk commissions, children's hospitals and dispensaries, milk fund associations, visiting nurses associations, and municipalities. From the records of the American Association of Medical Milk Commissions, it is shown that there were medical milk commissions in the following cities of the United States at the date of the last annual meeting of that association held in St. Louis, June 6, 1910:

Jacksonville and Ocala, Fla.; Louisville, Ky.; Oakland, Los Angeles, Santa Barbara, and San Francisco, Cal.; Chicago, Galesburg, Kewanee, and Springfield, Ill.; New Orleans, La.; Colorado Springs, Colo.; Indianapolis and Richmond, Ind.; Bridgeport, Greenwich, and Hartford, Conn.; Boston, Cambridge, Malden, and Worcester, Mass.; Detroit, Grand Rapids, and Jackson, Mich.; Minneapolis, Minn.; Kansas City and St. Louis, Mo.; Butte, Mont.; Omaha, Nebr.; Elizabeth, Lakewood, Newark, Paterson, Summit, Jersey

City, Englewood, and Morristown, N. J.; Albany, Binghamton, Buffalo, Brooklyn, Syracuse, Elmira, Ithaca, New York City, Poughkeepsie, Rochester, Saranac Lake, and Fulton, N. Y.; Akron, Cincinnati, Cleveland, Columbus, Dayton, and Toledo, Ohio; Erie, Pittsburgh, Philadelphia, and Wilkes-Barre, Pa.; Seattle, Wash.; Wheeling, W. Va.; Milwaukee, Wis.

All of the medical milk commissions have for their general object the encouragement of the production of clean milk, especially for the use of infants and invalids. On account of the gratuitous services of the members of the medical societies fostering them, they must be considered in a sense charitable, even though the dairyman renders the business of producing "certified" milk a paying investment.

Information received indicates that the following commissions, in addition to certifying milk, have taken special measures for the education of mothers in infant hygiene, by means of literature or instructions by physicians and nurses:

Commissions.	Special measures for education of mothers in infant hygiene.	By means of literature.	Instructions by physicians and nurses.
Pittsburg, Pa.: Allegheny County Medical Society.	In connection with public talks on pure milk.	Literature.....	Physicians and at public meetings.
Detroit, Mich.: Wayne County Medical Society.	Yes.....	.....	Physicians and nurses.
Minneapolis, Minn.: Hennepin County Medical Society.	.....do.....	Literature distributed by health department.	Visiting nurses.
Toledo, Ohio: Academy of Medicine.	.....do.....	Through daily newspapers.	Lectures at churches and clubs.
Grand Rapids, Mich.: Kent County Medical Society.	.....do.....	.....	By physicians recommending the milk.
Dayton, Ohio: Montgomery County Medical Society.	In connection with milk fund.	.....	Physicians and nurses.
Oakland, Cal.: Alameda County Medical Society.	Not by commission, but by associated women's clubs.	Literature.....	
Ocala, Fla.: Meat and Milk Commission.	Yes.....	Lectures.....	

Educational measures are undoubtedly carried on indirectly by other medical milk commissions not included in the above table, but in the absence of a definite statement to that effect, they could not be included therein. The facts given probably indicate, however, the usual means taken by commissions to popularize the use of certified milk, and thus prevent infant morbidity. These means include instruction in schools, cooperation with charitable organizations, distribution of literature, contributions to daily newspapers, physicians' lectures in public and talks in the home, and nurses' instructions in dispensaries and in the home.

INFANTS' MILK DEPOTS.

The information thus far received indicates that there are 28 cities in the United States in which are located infants' milk depots, or milk dispensaries for the relief of the poor. Many of these institutions maintain substations for the distribution of milk and giving advice with respect to infant hygiene, and a much larger area of those cities is accordingly covered, with corresponding benefit to the poor.

Institution.	Object.	How operated.	How maintained.
<p>New York City: Wilkes's Dispensary, out-patient department of St. Mary's Free Hospital for Children. Nathan Straus Laboratory (and branch depots). Good Samaritan Dispensary (milk department). New York Diet Kitchen Association.</p>	<p>To give relief to sick poor. Reduction of infant mortality by furnishing proper milk. To reduce infant mortality. To provide clean milk for babies and the sick poor.</p>	<p>Through dispensary... Through milk depots... In connection with dispensary. Through milk depot ..</p>	<p>By voluntary contributions. By Mr. Straus personally. Voluntary contributions and income from patients. Funds raised by private subscription.</p>
<p>St. Louis, Mo.: St. Louis Pure Milk Commission.</p>	<p>To furnish certified and modified milk for infant feeding in the poor districts of the city.</p>	<p>By milk depots and clinics.</p>	<p>Proceeds from the sale of milk and voluntary offerings.</p>
<p>Boston, Mass.: Milk and Baby Hygiene Association.</p>	<p>To improve the general milk supply, encourage breast feeding, to provide milk for babies who can not be nursed to furnish advice in matters of hygiene and the care of babies.</p>	<p>By milk depots, visits, and conferences.</p>	<p>By private charity.</p>
<p>Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.</p>	<p>Study and care of the baby before and during birth and for two years afterwards.</p>	<p>By depot and visits...</p>	<p>By public subscription, by subscription from the Thomas Wilson Sanitarium, and by the sale of milk.</p>
<p>Cleveland, Ohio: The Babies' Dispensary and Hospital.</p>	<p>To reduce sickness and death among the infant poor.</p>	<p>Through dispensary, hospital, and visits.</p>	<p>By private charity.</p>
<p>Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.</p>	<p>To furnish pure milk for babies.</p>	<p>Through depots and visits.</p>	<p>Principally by subscriptions.</p>
<p>Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.</p>	<p>To supply milk and ice, chiefly to babies.</p>	<p>.....do.....</p>	<p>Milk and Ice Association; department of health by city of Pittsburg. Private subscriptions.</p>
<p>Detroit, Mich.: Detroit Milk Fund Association.</p>	<p>To supply safe milk for babies whose parents can not afford to pay for such milk.</p>	<p>Through dispensaries and visits.</p>	<p>Private subscriptions.</p>
<p>Louisville, Ky.: Babies' Milk Fund Association.</p>	<p>To reduce infant mortality and improve health and vitality of surviving children.</p>	<p>Through depots, visits, and lectures.</p>	<p>Appropriations from city and county, and private contributions.</p>
<p>Providence, R. I.: Providence Medical Association committee, with Providence District Nursing Association.</p>	<p>To reduce sickness among the poor.</p>	<p>By visits of nurses and lectures.</p>	<p>By money collected.</p>
<p>Kansas City, Mo.: Kansas City Pure Milk Commission.</p>	<p>To improve general standard of milk in the community; to provide proper milk for infants.</p>	<p>By certification of milk; by central laboratory and distributing stations.</p>	<p>By public subscriptions and donations.</p>
<p>Rochester, N. Y.: Rochester Milk Station, established 1897.</p>	<p>To insure clean, raw, tuberculin-tested milk for children during July and August; to raise standard of milk supply.</p>	<p>By central station on farm and distributing stations.</p>	<p>By the municipality.</p>
<p>Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.</p>	<p>Care of sick poor; instruction in matters of hygiene, etc.; preservation of infant life.</p>	<p>Through dispensary and visits.</p>	<p>By annual subscriptions and private endowments.</p>
<p>Worcester, Mass.: Committee of Worcester fresh air fund.</p>	<p>To supply clean milk for poor babies during summer.</p>	<p>Through depots attended by trained nurses.</p>	<p>By public philanthropy.</p>
<p>Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.</p>	<p>To furnish pure milk to infants at the minimum cost.</p>	<p>Through milk depot..</p>	<p>By the organization.</p>
<p>New Haven, Conn.: Consumers' League, pure food committee.</p>	<p>"An object lesson in nutrition."</p>	<p>.....do.....</p>	<p>By charity.</p>
<p>Albany, N. Y.: South End Dispensary, milk depot.</p>	<p>To supply modified and adapted milk for infants during summer.</p>	<p>.....do.....</p>	<p>By an organization of women, "The Albany Christian Mothers' Union."</p>

Institution.	Object.	How operated.	How maintained.
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	To enable all who need it to procure safe and wholesome milk.	By issue of tickets to patients on orders from physicians, nurses, and charitable associations.	By charitable contributions and money raised by entertainments.
Hartford, Conn.: Babies' Hospital (Incorporated).	To care for sick infants.	Hospital; tent hospital in summer; operated by the corporation.	By the corporation, mostly physicians.
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	To supply clean milk; instruct mothers in sanitary methods; to have supervision of children.	By daily clinics.	By funds collected by commission and small charge for milk to those who can pay.
New Bedford, Mass.: Charity Organization Society, pure milk department.	To enable the poor to obtain pure milk during the summer.	Milk depots managed by young college women under direction of a trained nurse.	By voluntary contributions.
Peoria, Ill.: Associated Charities, visiting nurse committee.	To give better care to the sick poor.	Through dispensary.	By private contributions.
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	Distribution of milk to infants.	Through milk laboratory.	
Waterbury, Conn.: Waterbury Visiting Nurses' Association.		.....do.....	
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	To furnish free milk to children and babies.	Through dispensary.	Milk furnished gratis by the dairy.
Chicago, Ill.: The Milk Commission of Chicago.	To supply to infants pure milk at cost or less.	Through pasteurizing station and distributing stations.	
Newark, N. J.: The Babies' Hospital Milk Dispensary.	To prevent infant mortality, encourage maternal feeding, educate mothers, and teach infant hygiene in dispensary and home.	By hospital, dispensary, and visits.	
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots).	Reduction of infant mortality by furnishing proper milk.	Through milk depots.	By Mr. Straus personally.
New York City: New York Milk Committee.	To improve the milk supply and reduce infant mortality.	Infants' milk depots; model dairy; committees.	
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	To furnish milk of high grade to young children and sickly adults at low price.	Central laboratory and branches.	By sale of milk, subscriptions, proceeds of entertainments, etc.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	Distribution of pasteurized milk.	Milk distributed by 8 drug stores.	Returns from sales and private charities.

Objects of the institutions.—An analysis of the data presented indicates that the general object of the organizations in question is the protection of infant life, although the details of operation vary to some degree. Two give as an object the encouragement of maternal feeding; 16 the supplying of proper milk to infants; 2 the furnishing of modified milk; 1 the furnishing of certified milk; 1 the furnishing of milk and ice for babies; 1 the furnishing of proper milk to the sick poor; 4 to reduce infant morbidity; 6 to reduce infant mortality; 2 to give relief to the sick poor; 4 to teach infant hygiene; 1 to study and care for babies before and after birth; 1 to encourage proper nutrition of infants; 1 to improve health and vitality of children; 1 to distribute pasteurized milk; and 3 to improve the general milk supply.

Operation of institutions.—Fifteen of the charities were conducted in part or in whole through infants' milk depots; 9 through hospital and medical dispensaries; 4 through milk laboratories; 1 through milk station at the farm; 1 through pasteurizing stations; 1 by means also

of tent hospitals; 2 by means of clinics; 10 by means of house visits; 2 by means of lectures; 1 through stations at drug stores; and 1 through dispensing of milk on physicians' and nurses' orders and request of charitable associations.

Maintenance of institutions.—Nineteen of the institutions were supported entirely by private philanthropy, 2 wholly by official means, 2 partly official and partly private, and 6 partly through income from patients and partly private.

Information from Hoboken, N. J., indicates that while no milk dispensaries or consultations are maintained, \$4,000 annually is contributed by private philanthropy for investigation of the milk supply and the health of infants, the investigations being made by the Bureau of Municipal Research of New York.

In the previous compilation regarding infants' milk depots, the results of which are published on page 583 of Hygienic Laboratory Bulletin No. 41, there is record of the following milk depots:

Institution.	Maintained by—
Cambridge School of Nursing and Visiting Nurses' Association.	Public appropriations and private philanthropy.
Cincinnati, Ohio, health department.	Public funds.

No recent data have been received from these latter institutions, nor from one in Toledo, Ohio, that was in operation in 1907.

	Special measures taken for education of mothers in infant hygiene.	Instructions given by literature or by physicians and nurses.	In the homes or at central consultations.
New York City:			
Wilkes' Dispensary, out-patient department of St. Mary's Free Hospital for Children.	Yes.....	By physicians and nurses.	At dispensary (lectures and pamphlets).
Nathan Straus Laboratory (and branch depots).	.....do.....	By literature and physicians.	At consultations.
Good Samaritan Dispensary (milk department).	.....do.....	By nurses.....	At dispensary.
New York Diet Kitchen Association.	.....do.....	Both.....	Both.
St. Louis, Mo.: St. Louis Pure Milk Commission.	.....do.....	.....do.....	At clinics mostly; sometimes at home.
Boston, Mass.: Milk and Baby Hygiene Association.	.....do.....	.....do.....	Both.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	.....do.....	.....do.....	Do.
Cleveland, Ohio.: The Babies' Dispensary and Hospital.	.....do.....	.....do.....	Do.
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	.....do.....	.....do.....	Do.
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	.....do.....	.....do.....	Do.
Detroit, Mich.: Detroit Milk Fund Association.	.....do.....	By physicians and nurses.	Do.
Louisville, Ky.: Babies' Milk Fund Association.	.....do.....	Both.....	Do.
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.	.....do.....	.....do.....	At homes and at lectures.
Kansas City, Mo.: Kansas City Pure Milk Commission.	.....do.....	.....do.....	Both.
Rochester, N. Y.: Rochester Milk Station. Established 1897.	.....do.....	By literature and nurses.	Do.

	Special measures taken for education of mothers in infant hygiene.	Instructions given by literature or by physicians and nurses.	In the homes or at central consultations.
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	Yes	Both.....	Both.
Worcester, Mass.: Committee of Worcester Fresh Air Fund.	Only through nurses at the stations.	By cards of instruction and oral directions by nurses.	At the stations.
New Haven, Conn.: Consumers' League, Pure Food Committee.	Yes.....	By physicians and nurses.	Both.
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	.....do.....	.....do.....	Do.
Albany, N. Y.: South End Dispensary, Milk Depot.	.....do.....	Both.....	Do.
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, Certified Milk Fund for the Sick Poor.	.....do.....	By physicians and nurses.	At home.
Hartford, Conn.: Babies' Hospital, Inc.	.....do.....	.....do.....	At the hospital.
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	.....do.....	Both.....	Both.
New Bedford, Mass.: Charity Organization Society.	.....do.....	By literature and a nurse.	In the home.
Peoria, Ill.: Associated Charities, visiting nurse committee.	.....do.....	By physicians and nurses.	Both.
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	.....do.....	Both.....	Do.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	.....do.....	.....do.....	Do.
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	.....do.....	By physicians and nurses.	Do.
Chicago, Ill.: The Milk Commission of Chicago.	.....do.....	By literature, visiting nurses, and attendants at stations.	At distributing stations mostly.
Newark, N. J.: The Babies' Hospital Milk Dispensary.	.....do.....	Both.....	Both.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots).	.....do.....	By literature and physicians.	At consultations.
New York City: New York Milk Committee.	.....do.....	By physicians and nurses.	In homes by nurses and in classes by physicians and nurses.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	.....do.....	By circular and by nurses.	Both.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	.....do.....	By literature and by physicians and nurses.	Do.

Dissemination of information regarding infant hygiene.—All of the charities take special measures for the education of the mothers in infant hygiene. The instruction is given in 9 organizations by physicians and nurses, in 1 by nurses, and in 24 by both literature and personal instructions from physicians and nurses. The instructions are given by 2 organizations wholly in the home, by 7 wholly at the dispensary or central clinic, by 1 in the home and at lectures, and by 24 both at central clinics and in the home.

	Does agency distribute milk to infants and invalids?	Is milk sold to the poor or given outright?	What proportion of cost is charged?
New York City:			
Wilkes's dispensary, out-patient department of St. Mary's Free Hospital for Children.	No.....		
Nathan Straus Laboratory (and branch depots).	Yes.....	Sold.....	About 50 per cent.
New York Diet Kitchen Association.	.....do.....	Both.....	Adults free; infants 10 per cent free.
Do.....	.....do.....	.....do.....	Two-thirds

	Does agency distribute milk to infants and invalids?	Is milk sold to the poor or given outright?	What proportion of cost is charged?
St. Louis, Mo.: St. Louis Pure Milk Commission.	Infants only.....	Sold; given to those unable to pay for it.	About one-third cost of milk and preparation of it.
Boston, Mass.: Milk and Baby Hygiene Association.	Yes	Sold.....	Nearly all.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	Infants only.....	do	About 75 or 80 per cent.
Cleveland, Ohio: The Babies' Dispensary and Hospital.	do	Sold; given to those unable to pay for it.	About one-half of total cost.
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	do	do	Cost if possible.
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	Both, but chiefly to infants.	Most of it given	About one-third.
Detroit, Mich.: Detroit Milk Fund Association.	Yes	Sold; no fixed price....	No fixed price.
Louisville, Ky.: Babies' Milk Fund Association.	Infants.....	Sold; given to those unable to pay for it.	
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.	No.....		
Kansas City, Mo.: Kansas City Pure Milk Commission.	Infants only.....	Sold.....	About 50 per cent.
Rochester, N. Y.: Rochester milk station established 1897.	do	do	20 per cent, cost of nursing included.
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	do	Both.....	As much as patient can afford to pay.
Worcester, Mass.: Committee of Worcester Fresh Air Fund.	do	Most of it sold.....	About cost of milk and one-third total cost of nurses, etc.
New Haven, Conn.: Consumers' League, pure-food committee.	do	Sold below cost.....	20 per cent of total cost of maintenance.
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	Infants.....	Sold.....	About one-third.
Albany, N. Y.: South End Dispensary, milk depot.	Yes.....	Both.....	(?)
Dayton, Ohio: Milk commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	Infants.....	do	10 per cent is sold at half price.
Hartford, Conn.: Babies' Hospital (Incorporated).	No.....		
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	Yes	A small charge to those who can pay; given to those who cannot.	One-half.
New Bedford, Mass.: Charity Organization Society, pure milk department.	Yes.....	Sold; given to those unable to pay for it.	An average of about three-fourths.
Peoria, Ill.: Associated Charities, visiting nurse committee.	Yes.....	Both.....	(?)
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	Yes.....	Usually sold; some given away.	As much as possible.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	To infants mostly..	Sold, except to town charges.	Varying.
Pasadena, Cal.: The Pasadena Hospital through Arden certified milk dairy.	Yes.....	Given outright.....	
Chicago, Ill.: The Milk Commission of Chicago.	To infants only....	Sold except to a few entirely destitute.	One-half.
Newark, N. J.: The Babies' Hospital Milk Dispensary.	To infants principally.	Sold.....	40 to 80 per cent of total cost.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots). ^a			
New York City: New York Milk Committee.	To infants mostly.	Sold; relief societies pay for part.	Entire cost.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	Yes.....	Sold, except in very few cases.	Somewhat less than cost.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	To infants only....	Sold.....	About 33 per cent.

^a Opened May, 1910.

Agencies that distribute milk.—Of the 34 institutions reporting, 17 distribute milk to infants and invalids, 14 to infants only, and 3 do not distribute any milk.

Milk sold or given to the poor.—Of the 31 institutions dispensing milk, 11 sell it at a low price, 17 sell part and give to those who are unable to pay, 2 mostly give it away, and 1 gives it outright. On the whole, it appears to be the policy, both in the interest of the organization and the recipient, to make some charge, thereby removing, in a measure, the element of charity, and enabling the agency itself to do a greater work.

	What proportion of those benefited are (a) children, (b) invalid adults, (c) nursing mothers?	What proportion of the children are sick when they first get the milk?	What proportion of the children are well while distribution is in progress (a) in winter, (b) in summer?
New York City:			
Wilkes' Dispensary, outpatient department of St. Mary's Free Hospital for Children.			
Nathan Straus Laboratory (and branch depots).	(a) 99 per cent, (b) 1 per cent.	85 per cent winter, 98 per cent summer.	(a) 98 per cent, (b) 90 to 98 per cent.
Good Samaritan Dispensary (milk department).	(a) 90 per cent, (b) 5 per cent, (c) 5 per cent.	50 per cent.....	(a) 80 per cent, (b) 50 per cent.
New York Diet Kitchen Association.	(a) Two-fifths, (b) one-fifth, (c) two-fifths.	Four-fifths.....	(a) Four-fifths, (b) two-thirds. (?)
St. Louis, Mo.: St. Louis Pure Milk Commission.	All infants.....	(?).....	(?)
Boston, Mass.: Milk and Baby Hygiene Association.	(a) 95 or 97 per cent, (b) 3 or 4 per cent.	Varying from 5 to 45 per cent.	(a) 80 per cent, (b) 10 to 20 per cent. (?)
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	Nearly all children....	Fully 80 per cent.....	(?)
Cleveland, Ohio.: The Babies' Dispensary and Hospital.	All children.....	Probably one-half....	(a) Three-fourths probably, (b) one-half probably.
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	All babies.....	Not supposed to be sick.	(a) All well, (b) very few sick. (?)
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburgh and Allegheny Milk and Ice Association.	Infants, 88 per cent; mothers and expectants, 12 per cent.	About one-half.....	(?)
Detroit, Mich.: Detroit Milk Fund Association.	Mostly children.....	(?).....	(?)
Louisville, Ky.: Babies' Milk Fund Association.	All infants, except about 10 nursing mothers.	About 50 per cent....	No distribution between October 1 and May 1. (?)
Providence, R. I.: Providence Medical Association, Committee on Infant Mortality, with Providence District Nursing Association.	Nearly all children....	(?).....	(?)
Kansas City, Mo.: Kansas City Pure Milk Commission.	All children.....	Most of them.....	Results good during all the year.
Rochester, N. Y.: Rochester Milk Station, established 1897.	.....do.....	75 per cent.....	(b) 25 per cent.
Columbus, Ohio.: Instructive District Nursing Association and Babies' Dispensary.	.....do.....	Probably 60 to 75 per cent in summer; not over 20 per cent in winter.	Very few sick in winter; not many in summer.
Worcester, Mass.: Committee of Worcester Fresh Air Fund.	All children, except 2 nursing mothers.	More than 50 per cent.	Nearly all the well remained well.
New Haven, Mass.: Consumers' League, Pure Food Committee.	All infants.....		
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	All children.....	All well; sick are not received.	All well.
Albany, N. Y.: South End Dispensary, milk depot.	All infants.....	Nearly two-thirds.....	(b) About one-third.

	What proportion of those benefited are (a) children, (b) invalid adults, (c) nursing mothers?	What proportion of the children are sick when they first get the milk?	What proportion of the children are well while distribution is in progress (a) in winter, (b) in summer?
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, Certified Milk Fund for the Sick Poor.	All infants, except 3 tuberculous adults.	All.....	Very few in winter; considerably more in summer.
Hartford, Conn.: Babes' Hospital (Inc.).	.....	.....	.....
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	All children.....	95 per cent.....	(b) 50 per cent.
New Bedford, Mass.: Charity Organization Society, pure milk department.	(a) 90 per cent, (b) 8 per cent, (c) 2 per cent.	About 50 per cent.....	(?)
Peoria, Ill.: Associated Charities, visiting nurse committee.	Mostly children.....	(?).....	(?)
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	(?).....	About 50 per cent.....	(a) 100 per cent, (b) 80 per cent.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	(?).....	Nearly all.....	No winter work.
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	Mostly infants.....	All.....	(?)
Chicago, Ill.: The Milk Commission of Chicago.	(a) 99 per cent.....	99 per cent.....	Impossible to state.
Newark, N. J.: The Babes' Hospital Milk Dispensary.	All children.....	90 per cent.....	(a) 95 per cent, (b) 90 per cent.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots). ^a	.....	.....	.....
New York City: New York Milk Committee.	(a) 95 per cent, (c) 5 per cent.	75 per cent.....	(a) 75 per cent, (b) 85 per cent.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	Great majority children; small number of adults; small number of nursing mothers.	Can not be stated.....	Can not be stated.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	Children only.....	One-half.....	(b) One-half.

^a Opened May 10, 1910.

Percentages of children and adult beneficiaries.—The beneficiaries were mostly children. Of the 29 institutions giving information as to what proportion of the patients served were children, invalids, and nursing mothers, in 12 all the beneficiaries were children; in 9, nearly all were children; in 6, from 90 per cent to 100 per cent were children; in 1, 80 per cent to 90 per cent were children; and in 1, two-fifths were children. From 1 per cent to 5 per cent of the beneficiaries in one institution were invalids; in another, from 5 per cent to 10 per cent; and in another, from 10 per cent to 20 per cent. In 3 institutions, 1 per cent to 5 per cent of the beneficiaries were nursing or expectant mothers; in another, from 10 per cent to 20 per cent; and in another, from 30 per cent to 40 per cent.

Percentages of children sick on application.—The proportions of children that were sick on application varied from 0 to 100 per cent. In 6 institutions the percentages were from 90 per cent to 100 per cent; in 1, from 80 per cent to 90 per cent; in 2, from 70 per cent to 80 per cent; in 1, from 60 per cent to 70 per cent; in 9, from 50 per cent to 60 per cent; and in 1, from 40 per cent to 50 per cent.

For purposes of summarizing, it seemed advantageous and sufficiently accurate to thus group the institutions, and the figures indicate that most of the children were ill on application. On the other

hand, when percentages were given they indicated that comparatively few remained sick while distribution of the milk was in progress. In summer the percentage of those that remained well was much larger than in winter.

	Average age of children fed.	Is literature on infant hygiene distributed with milk?	Number fed during past year: (a) infants, (b) adults.
New York City:			
Wilkes' Dispensary, outpatient department of St. Mary's Free Hospital for Children.	Many under 2 years....	No.....	
Nathan Straus Laboratory (and branch depots).	1 day to 2 years.....	Yes.....	About 15,000 children.
Good Samaritan Dispensary (milk department).	1 day to 18 months....	In summer.....	(a) 1,000; (b) 1,000.
New York Diet Kitchen Association.	5 to 15 months.....	Irregularly.....	(?)
St. Louis, Mo.: St. Louis Pure Milk Commission.	8 to 9 months (probably).	Yes.....	About 500 babies a day.
Boston, Mass.: Milk and Baby Hygiene Association.	5 to 6 months.....	Yes.....	(a) 1,396; (b) about 80.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	From birth to 2 years; 70 per cent under 1 year.	Yes.....	(a) 1,274.
Cleveland, Ohio: The Babies' Dispensary and Hospital.	Mostly under 15 months.	Yes.....	(a) 1,185.
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	6 weeks to 2 years.....	Yes; weekly, on weighing days.	(a) 2,000 (about),
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	A little over 1 year....	Yes.....	(a) 952; (b) 130.
Detroit, Mich.: Detroit Milk Fund Association.	Most under 1 year....	No.....	(a) 487.
Louisville, Ky.: Babies' Milk Fund Association.	1 year.....	Yes.....	(a) 284; (b) 1.
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.			
Kansas City, Mo.: Kansas City Pure Milk Commission.	Mostly under 1 year; all under 3 years.	Yes.....	About 250 babies.
Rochester, N. Y.: Rochester Milk Station, established 1897.	8 months.....	Yes, in 5 languages....	(a) 125.
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	1½ to 3 months.....	Yes.....	(a) 288.
Worcester, Mass.: Committee of Worcester Fresh-Air Fund.	1 year.....	do.....	(a) 145.
New Haven, Conn.: Consumers' League, pure-food committee.	All under 2 years.....	No.....	(a) 183.
Lowell, Mass.: Young women's hospital guild of Lowell General Hospital.	(?).....	Yes.....	Just started.
Albany, N. Y.: South End Dispensary, milk depot.	2 weeks to 2 years.....	do.....	(a) 47.
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	2 weeks to 3 years; most under 1 year.	No.....	(a) 203; (b) 3.
Hartford, Conn.: Babies' Hospital (Inc.).			
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	All under 2 years; most under 1 year.	Yes.....	(a) 90.
New Bedford, Mass.: Charity Organization Society, pure milk department.	About 1 year.....	In very few cases....	Milk was supplied to 334 families.
Peoria, Ill.: Associated Charities, visiting nurse committee.	Up to 2 years.....	No.....	
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	8 months.....	Yes.....	(a) 305.

	Average age of children fed.	Is literature on infant hygiene distributed with milk?	Number fed during past year: (a) infants, (b) adults.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	Mostly under 2 years.		
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	(?)	Written directions given.	(?)
Chicago, Ill.: The Milk Commission of Chicago.	3 weeks to 16 months.	Yes; baby folders in 7 languages.	(?)
Newark, N. J.: The Babies' Hospital Milk Dispensary.	6 months.		
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots). ^a			
New York City: New York Milk Committee.	6 months.	(?)	(a) 778; (b) 41.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	Under 2 years.	Circulars to the mothers.	1,445,287 bottles distributed, mostly to children.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	Up to 1½ years.	No.	(?)

^a Opened May, 1910.

Average ages of children fed.—Of the 29 institutions giving information as to the average age of the children fed, in 11, the children were under 1 year; in 6, under 18 months; in 10, under 2 years; and in 2, under 3 years.

Literature given with milk.—Seventeen institutions distribute literature on infant hygiene with the milk—one in summer only, and one irregularly. In addition, one institution distributed literature in five languages with the milk, and one in seven languages.

Number of persons fed.—The replies received indicate that twenty-one institutions during 1909 fed a total of 26,558 babies, and one additional institution fed about 500 babies daily. Six institutions fed a total of about 1,264 adults, and one additional institution fed 334 families. The exact figures could not be obtained from three large institutions.

	Milk distributed in bulk or in individual packages.	Quantity of milk distributed during past year.	How many modifications or mixtures of milk are furnished?
New York City: Wilkes' Dispensary, outpatient department of St. Mary's Free Hospital for Children.			
Nathan Straus Laboratory (and branch depots). Good Samaritan Dispensary (milk department).	Individual packages...	3,158,439 bottles.....	Six.
	Children, in bottles; adults, in bulk.	36,062 quarts for children; no record for adults.	Seventeen.
New York Diet Kitchen Association.	Bulk.....	384,017 quarts.....	Individual modification for case.
St. Louis, Mo.: St. Louis Pure Milk Commission.	Individual packages...		Three.
Boston, Mass.: Milk and Baby Hygiene Association.	Both.....	2,577,818 ounces.....	Five.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	Individual bottles, and quart bottles to older children.	(?).....	Six.
Cleveland, Ohio: The Babies' Dispensary and Hospital.	Individual bottles and quarts and pints.	(?).....	Individual modification for case.

	Milk distributed in bulk or in individual packages.	Quantity of milk distributed during past year.	How many modifications or mixtures of milk are furnished?
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	Individual packages...	3,000 or 4,000 gallons a year.	Seven.
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	Chiefly in bulk.....	About 51,153 quarts...	No special formula.
Detroit, Mich.: Detroit Milk Fund Association.	Individual packages...	2,771 quarts; 55,035 tubes.	Do.
Louisville, Ky.: Babies' Milk Fund Association.	Both.....	29,305 bottles adapted milk; 7,097 pints whole milk; 446 quarts buttermilk.	Seven.
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.	.....	.....	.....
Kansas City, Mo.: Kansas City Pure Milk Commission.	Individual tubes.....	125,000 bottles.....	4 stock formulas.
Rochester, N. Y.: Rochester Milk Station, established 1897.	Individual packages.....	6,500.....	Four.
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	.....do.....	130,000 feedings, averaging 4 ounces.	No stock formulas.
Worcester, Mass.: Committee of Worcester fresh air fund.	Individual bottles.....	4,301 quarts.....	Five.
New Haven, Conn.: Consumers' League, Pure Food Committee.	Individual packages.....	36,870 quarts.....	Four.
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	.....do.....	(?).....	About 4.
Albany, N. Y.: South End Dispensary, milk depot.	.....do.....	8,346 feedings.....	Ten.
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	.....do.....	3,052 quarts.....	Whole milk.
Hartford, Conn.: Babies' Hospital (Incorporated).	.....	.....	.....
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	Individual packages...	1,000 gallons.....	Five.
New Bedford, Mass.: Charity Organization Society, pure milk department.	In quart and pint glass jars.	9,564 quarts.....	.....
Peoria, Ill.: Associated Charities, visiting nurse committee.	In bulk to those not sick, in bottles to infants and invalids.	(?).....	Not modified.
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	Individual packages...	(?).....	.....
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	.....do.....	(?).....	About 10 regular ones, also modifications to physicians' orders.
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	In packages.....	.....	.....
Chicago, Ill.: The Milk Commission of Chicago.	Individual packages...	923,167 bottles.....	Seven.
Newark, N. J.: The Babies' Hospital Milk Dispensary.	.....do.....	268,000 bottles.....	Six.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots). ^a	.....	.....	.....
New York City: New York Milk Committee.	Individual feeding bottles for infants; quart bottles for mothers.	(?).....	Six.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	Individual packages...	179,370 quarts.....	Five modifications and plain milk.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	.....do.....	(?).....	Two modifications; pure milk; barley water.

^a Opened May, 1910.

Character of distribution of milk.—Twenty-one institutions distributed the milk in individual feedings, 6 in both ordinary bottles and individual feedings, and 3 in bulk. Eighteen institutions furnish modified milk, 3 additional ones presumably do, and 2 serve whole milk only. One institution furnishes three modifications; 3 furnish four; 4 furnish five; 3 furnish six; 3 furnish seven; 2 furnish ten, and 1 furnishes seventeen. In addition, 3 furnish milk on individual prescriptions.

Amount of milk distributed.—Replies received indicate that there were dispensed from twelve institutions a total of about 726,708 quarts of milk; from nine institutions 4,703,792 feedings, and from one institution 2,577,818 ounces of milk.

	For what ages are modifications designed?	Milk heated or used raw?	If heated, to what temperature and how long?
New York City:			
Wilkes's Dispensary, outpatient department of St. Mary's Free Hospital for Children.			
Nathan Straus Laboratory (and branch depots).	1 day to 1 year; whole milk given after 9 months.	Heated.....	155° F., 20 minutes.
Good Samaritan Dispensary (milk department).	1 day to 18 months....	Both.....	60° C., 20 minutes.
New York Diet Kitchen Association.	Any bottle-fed baby...	Raw.....	
St. Louis, Mo.: St. Louis Pure Milk Commission.	1 to 2 months; 2 to 4 months; 5 and 6 months; 7 to 9 months; whole raw milk to 10 months and over.	Heated.....	167°.
Boston, Mass.: Milk and Baby Hygiene Association.	Under 1 month; 1 to 4 months; whole milk; fat-free milk.	First 3 are heated....	145°, 20 minutes.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and Mothers' Relief Society.		Raw in winter; heated in summer.	147° F.
Cleveland, Ohio: The Babies' Dispensary and Hospital.	Largely under 15 months.	Raw.....	
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	6 weeks to 2 years....	do.....	
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	Under 3 months; 3 to 6 months; 6 to 9 months; 9 to 12 months.	do.....	
Detroit, Mich.: Detroit Milk Fund Association.	Under 1 year.....	Raw unless heating ordered.	
Louisville, Ky.: Babies' Milk Fund Association.	Birth to 12 months....	Raw.....	
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.			
Kansas City, Mo.: Kansas City Pure Milk Commission.	Birth to 3 months; 3 to 8 months; 8 months and over; barley water.	Heated.....	167°, 20 minutes.
Rochester, N. Y.: Rochester Milk Station, established 1897.	1 to 12 months.....	Raw.....	
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	All, up to 2 years....	do.....	
Worcester, Mass.: Committee of Worcester Fresh Air Fund.	Under 1 year.....	do.....	
New Haven, Conn.: Consumers' League, pure food committee.	Birth to 3 months; 3 to 6 months; 6 to 9 months; 9 to 12 months.	do.....	

	For what ages are modifications designed?	Milk heated or used raw?	If heated, to what temperature and how long?
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	(?).....	Raw.....	
Albany, N. Y.: South End Dispensary, milk depot.	2 days to 15 months.....	do.....	
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	Modified for each individual case.....	do.....	
Hartford, Conn.: Babies' Hospital (Incorporated).	.....	.....
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	1 month to 2 years.....	Raw.....	
New Bedford, Mass.: Charity Organization Society, pure milk department.	.....	do.....	
Peoria, Ill.: Associated Charities, visiting nurse committee.	(?).....	do.....	
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	.....	Heated.....	158° F., 30 minutes.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	.....	Raw.....	
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	.....	.....
Chicago, Ill.: The Milk Commission of Chicago.	3 weeks to 16 months.....	Pasteurized.....	170° F.; continuous flow pasteurized, held 1 minute.
Newark, N. J.: The Babies' Hospital Milk Dispensary.	Birth to 1, 2, 3 years.....	Heated.....	Winter, 155° F., 20 minutes; summer, 180° F., 20 minutes.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots) ^a	.....	.....
New York City: New York Milk Committee.	Up to 2 years.....	Both.....	167°, 20 minutes.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	1 day to 2 years.....	All pasteurized.....	170°, 20 minutes.
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	Up to 2 years.....	Pasteurized.....	165°, 20 minutes.

^a Opened May, 1910.

Treatment of milk dispensed.—The modifications are numerous, and vary much in the different institutions. They are intended generally to meet the needs of infants from birth up until 2 or 3 years of age. The replies received indicate that 8 institutions heated the milk, 3 dispensed both heated and raw milk, 1 dispensed heated milk in summer and raw milk in winter, and 17 dispensed only raw milk.

	Is heat applied summer and winter alike?	What grade of milk employed?	Mortality rate for infants under 1 year of age.	Mortality rate among children fed on dispensary milk one month or over during past year.
New York City: Wilkes's Dispensary, outpatient department of St. Mary's Free Hospital for Children.	.....	.....	.....	.....
Nathan Straus Laboratory (and branch depots).	Yes.....	Certified; best obtainable.	3.5 per 1,000 of total population.	Accurate information not obtainable.
Good Samaritan Dispensary (milk department).	No; summer 80° C., 20 min.	Borden's.....	3.5 per 1,000.....	As far as obtainable, 6 deaths during 1909.
New York Diet Kitchen Association.	.....	Certified.....	15 per 1,000.....	11 out of more than 400.

	Is heat applied summer and winter alike?	What grade of milk employed?	Mortality rate for infants under 1 year of age.	Mortality rate among children fed on dispensary milk one month or over during past year.
St. Louis, Mo.: St. Louis Pure Milk Commission.	No; no heat in winter.	Highest grade of certified.	(?).....	Compared with city surprisingly low.
Boston, Mass.: Milk and Baby Hygiene Association.	Yes.....	Inspected.....	11.2 per cent (basis births during year).	2.5 per cent.
Baltimore, Md.: Baltimore Association for the Study and Prevention of Infant Mortality, combining the work of the Babies' Milk Fund Association and the Mothers' Relief Society.	Not heated in winter.	Furnished by Walker-Gordon Laboratory.	About 20 per cent.	8 per cent.
Cleveland, Ohio: The Babies' Dispensary and Hospital.	Never heated.	From dairy under direct supervision of the institution.	13.04 per cent.	Dead under dispensary care, 1.49 per cent; under outside care 7.3 per cent.
Buffalo, N. Y.: Babies' Milk Dispensary of Buffalo.	.....do.....	Examined twice a week by bacteriologist.	1,242 out of total population of 415,532.	No record.
Pittsburg, Pa.: Department of Public Health of Pittsburg, cooperating with Pittsburg and Allegheny Milk and Ice Association.	.....do.....	Certified.	13.85 per cent (basis births during year).	(?)
Detroit, Mich.: Detroit Milk Fund Association.	No.....	Best clinical	.....	.....
Louisville, Ky.: Babies' Milk Fund Association.	Never heated..	Certified only.	1906-1908, average under 1 year, 15 per cent plus.	284 children treated; 17 deaths; mortality, 6 per cent.
Providence, R. I.: Providence Medical Association, committee on infant mortality, with Providence District Nursing Association.	.....	.....	.....	.....
Kansas City, Mo.: Kansas City Pure Milk Commission.	Yes.....	Best obtainable.	.....	.....
Rochester, N. Y.: Rochester Milk Station, established 1897.	Never heated.	Tuberculin-tested milk from grade cows.	2.03 per 100 on a basis of 200,000 population.	Not obtainable, but very small.
Columbus, Ohio: Instructive District Nursing Association and Babies' Dispensary.	.....do.....	Certified.....	Total deaths, 2,148; of infants under 1 year, 332.	Do.
Worcester, Mass.: Committee of Worcester Fresh Air Fund.	.....do.....	Best.....	3.25 per 1,000.	Only 1 died who had taken the milk one month.
New Haven, Conn.: Consumers' League, pure food committee.	.....do.....	Special, of high grade.	0.84 per 1,000.	None.
Lowell, Mass.: Young Women's Hospital Guild of Lowell General Hospital.	.....do.....	Best obtainable.	26.21 per 1,000.	(?)
Albany, N. Y.: South End Dispensary, Milk Depot.	.....do.....	From an inspected dairy.	18 per cent....	5 out of 47 died; but 4 after removal from care of dispensary and nurse.
Dayton, Ohio: Milk Commission of the Montgomery County Medical Society, certified milk fund for the sick poor.	.....do.....	Certified.....	15.5 per cent (basis births during year).	203 fed; 4 died, 1 of whom received milk over one month.
Hartford, Conn.: Babies' Hospital (Incorporated).	.....do.....	.....	.....	.....
Lawrence, Mass.: Lawrence Sanitary Milk Commission.	Never heated.	Of first quality.	Total deaths, 1,424; under 1 year, 461.	2 out of 90.
New Bedford, Mass.: Charity Organization Society.	.....do.....	Best obtainable.	34 per cent of total deaths.	17 per cent.
Peoria, Ill.: Associated Charities, visiting nurse committee.	.....do.....	.....do.....	135 children died in 1909.	None.
Wilkes-Barre, Pa.: Wyoming Valley Society for the Prevention and Treatment of Tuberculosis.	Yes.....	.....do.....	(?).....	Statistics show death rate among children under 3 years decreased 41 per cent during summer.
Waterbury, Conn.: Waterbury Visiting Nurses' Association.	Never heated.	Uncertified, bottled.	(?).....	(?)
Pasadena, Cal.: The Pasadena Hospital, through Arden Certified Milk Dairy.	.....do.....	Certified.....	.....	.....

	Is heat applied summer and winter alike?	What grade of milk employed?	Mortality rate for infants under 1 year of age.	Mortality rate among children fed on dispensary milk one month or over during past year.
Chicago, Ill.: The Milk Commission of Chicago.	Yes.....	Holstein, 4 per cent butter-fat. Certified.....	287 per 100,000 of total population.	Data from 4 stations only, 3 per cent.
Newark, N. Y.: The Babies' Hospital Milk Dispensary.	.....do.....	.....do.....	100 per 1,000 births.	2.7 per cent.
Washington, D. C.: Nathan Straus Laboratory (and 6 branch depots). ^a	.....do.....	.....do.....	11.6 per cent ..	Impossible to state.
New York City: New York Milk Committee.	.....do.....	.....do.....	128 per 1,000 births.	Do.
Philadelphia, Pa.: The Philadelphia Modified Milk Society.	.....do.....	Best milk that can be bought; not certified.	(?).....	(?)
Yonkers, N. Y.: Milk Dispensary of St. John's Riverside Hospital.	Open from June to September.	Borden's.....	(?).....	(?)

^a Opened May, 1910.

Heating of milk in summer and winter.—In 8 institutions the milk is heated summer and winter alike; in 3 institutions it is heated in summer, but not in winter; and in 1 institution the requirements as to heating are different summer and winter.

Of the 30 institutions furnishing milk, 11 used "certified;" 3, "inspected;" 5, "market;" 1, "guaranteed;" 6, "the best obtainable;" 1, "tuberculin tested;" 1, "special;" and 2, "best quality milk."

Statistics as to benefits derived.—The statistics with respect to mortality contained in the last two columns of the above table are presented, and are subject to revision on receipt of more definite information. As a whole, the mortality rates of the various cities in question are not comparable, since some of them are based on the number of births, while others are based on the total number of deaths, and still others on the total population. In Philadelphia, Boston, Baltimore, Cleveland, and Newark, where the mortality rates for infants are evidently on the basis of the births, some comparison might probably be made.

The mortality rates among children fed on dispensary milk one month or over during the past year in the institutions of those cities indicate also that the institutions in question were instrumental in materially reducing mortality. In the other cities under consideration, the institutions located therein must have also had a potent influence in the improvement of infant hygiene.

In order to determine the relative value of maintaining milk dispensaries in connection with measures for the improvement of infant hygiene, careful record should be kept and investigations made that would be comparable. By this means also definite facts would be elicited to determine the relative value of milk charities as compared with charities that do not dispense milk.

The keeping of records from day to day must devolve upon the individual officers connected with milk charities and will require considerable sacrifice of time on their part. It is desired especially to acknowledge the courtesies of all who have furnished and assisted in compiling the information which has made this report possible, it being impossible to make personal mention because of the large number interested

UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

PLAGUE-PREVENTION WORK.

Surgeon Blue reports:

INFECTED GROUND SQUIRREL.

During the week ended September 10, 1910, the finding of 1 plague-infected squirrel was reported. The squirrel was found August 20 in Contra Costa County, Cal., on Wildcat Creek west of Cragmont and one-half mile north of Alameda County line.

ANIMALS EXAMINED FOR PLAGUE INFECTION.

During the week ended September 10, 1910, there were examined for possible plague infection at the federal laboratory at San Francisco and the branch laboratories at Los Angeles and Oakland, Cal., animals as follows: Squirrels 2,693, rabbits 17, weasels 1, rats 1,647. The rats were identified as follows: *Mus norvegicus* 1,534, *Mus rattus* 42, *Mus alexandrinus* 56, *Mus musculus* 15.

The total number of animals examined was 4,358. One plague-infected squirrel was found.

DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities on San Francisco Bay, 1,700 acres of land in Alameda County were covered with poison during the week ended September 10, 1910.

SEATTLE, WASH.

Assistant Surgeon Chapin reports:

During the week ended September 3, 1910, 1,073 rats were collected. Of these, 915 were necropsied and examined for plague infection. No plague-infected rats were found.

Record of Plague Infection.

Place.	Date of last case of human plague.	Date of last case of rodent plague.	Total number of rodents found infected since May, 1907.
California:			
Cities—			
San Francisco.....	Jan. 30, 1908	Oct. 23, 1908	398 rats.
Oakland.....	Oct. 26, 1909	Dec. 1, 1908	126 rats.
Berkeley.....	Aug. 28, 1907	None recorded.	
Los Angeles.....	Aug. 11, 1908	Aug. 21, 1908	1 squirrel.
Counties—			
Alameda (exclusive of the city of Oakland)....	Sept. 26, 1909	Aug. 16, 1910	83 squirrels, 1 wood rat.
Contra Costa.....	July 21, 1908	Aug. 20, 1910	246 squirrels.
Merced.....	None recorded.	June 6, 1910	2 squirrels.
Monterey.....	do.....	do.....	4 squirrels.
San Benito.....	June 5, 1910	July 11, 1910	20 squirrels.
San Joaquin.....	None recorded..	Aug. 19, 1910	7 squirrels.
San Luis Obispo.....	do.....	Jan. 29, 1910	1 squirrel.
Santa Clara.....	Sept. 5, 1910	June 22, 1910	22 squirrels.
Santa Cruz.....	None recorded..	May 17, 1910	3 squirrels.
Stanislaus.....	do.....	May 21, 1910	5 squirrels.
Washington:			
Seattle.....	Oct. 30, 1907	Feb. 8, 1910	22 rats.

Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Examined.	Found infected.
California:					
Berkeley.....	Sept. 10		^a 79	79	
Oakland.....	do.....	16	^b 585	474	
San Francisco.....	do.....	100	^c 1,527	1,094	
Washington:					
Seattle.....	Sept. 3		1,073	915	
Total.....		116	3,264	2,562	

^a Identified, *Mus norvegicus* 64, *Mus musculus* 15.

^b Identified, *Mus norvegicus* 470, *Mus rattus* 2, *Mus musculus* 95, *Mus alexandrinus* 2.

^c Identified, *Mus norvegicus* 1,144, *Mus rattus* 95, *Mus musculus* 210, *Mus alexandrinus* 78.

Squirrels Collected and Examined for Plague Infection.

Place.	Week ended—	Trapped and shot.	Found dead.	Examined.	Found infected.
California:					
Cities—					
San Francisco.....	Sept. 10	7		7	
Counties—					
Alameda.....	do.....	65	18	83	
Contra Costa.....	do.....	37	4	41	1
Fresno.....	do.....	309		301	
Los Angeles.....	do.....	182		182	
Merced.....	do.....	133		130	
Monterey.....	do.....	428		422	
Orange.....	do.....	24		24	
San Joaquin.....	do.....	251	1	245	
San Luis Obispo.....	do.....	1,027	1	1,019	
San Mateo.....	do.....	58		58	
Solano.....	do.....	181		181	
Total.....		2,702	24	2,693	1

Other Animals Collected and Examined.

Place.	Week ended—	Animals collected.	Examined.	Found infected.
California:				
Cities—				
San Francisco.....	Sept. 10	2 gophers.....		
Counties—				
Fresno.....	do.	1 weasel.....	1	
San Mateo.....	do.	10 rabbits.....	10	
Solano.....	do.	7 rabbits.....	7	
Total.....		20.....	18	

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended September 30, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
Amador County.....	July 1-Aug. 31....	2		
Hamlet County.....	Aug. 1-31.....	2		
Los Angeles County.....	July 1-31.....	1		
Sacramento County.....	Aug. 1-31.....	1		
San Francisco County.....	July 1-Aug. 31....	2		
San Joaquin County.....	July 1-Aug. 31....	4		
Santa Clara County.....	July 1-31.....	2		
District of Columbia.....	Sept. 11-17.....	1		
Illinois:				
Coles County.....	Aug. 1-31.....	8		
Cook County—				
Chicago.....	Aug. 1-31.....	2		
Madison County.....	Aug. 1-31.....	1		
Peoria County.....	Aug. 1-31.....	1		
Richland County.....	Aug. 1-31.....	1		
Rock Island County.....	Aug. 1-31.....	3		
Indiana.....	July 1-31.....	None.	None.	
Michigan:				
Tuscola County.....	Aug. 1-31.....	4		
Wayne County.....	Aug. 1-31.....	2		
North Carolina:				
Caldwell County.....	Aug. 1-31.....	1		
Columbus County.....	Aug. 1-31.....	2		
Durham County.....	Aug. 1-31.....	8		
Forsyth County.....	Aug. 1-31.....	1		
Guilford County.....	Aug. 1-31.....	1		
Haywood County.....	Aug. 1-31.....	6		
Mecklenburg County.....	Aug. 1-31.....	2		
Mitchell County.....	Aug. 1-31.....	Few.		
Montgomery County.....	Aug. 1-31.....	7		
Nash County.....	Aug. 1-31.....	4		
New Hanover County.....	Aug. 1-31.....	5		
Pamlico County.....	Aug. 1-31.....	2		
Pender County.....	Aug. 1-31.....	7		
Pitt County.....	Aug. 1-31.....	5		
Robeson County.....	Aug. 1-31.....	26		
Sampson County.....	Aug. 1-31.....	1		
Union County.....	Aug. 1-31.....	3		
Warren County.....	Aug. 1-31.....	1		
Watauga County.....	Aug. 1-31.....	9		
Texas, entire State.....	July 1-31.....	42	5	

^a A correction and an addition to the report in the previous number.

Reports Received from June 25 to September 23, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see Public Health Reports for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	June 12-Aug. 6....	11		
Mobile.....	June 12-Sept. 10..	14		
Montgomery.....	June 12-25.....	6		
Total for State.....		31		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Arkansas:				
Fort Smith.....	June 19-25.....	1		
California, general.....				
	May 1-June 30.....	27		
Total for State.....		27		
Colorado:				
Alamosa County.....	Apr. 1-30.....		1	
Las Animas County.....	Mar. 1-Apr. 30.....		2	
Logan County.....	May 1-31.....		1	
Montrose County.....	Apr. 1-30.....		1	
Adams County.....	July 1-31.....	3		
Archuleta County.....	June 1-Aug. 31.....	17		
Chaffee County.....	July 1-Aug. 31.....	3		
Clear Creek County.....	Aug. 1-31.....	1		
Conejos County.....	June 1-Aug. 31.....	4		
Delta County.....	June 1-30.....	2		
Denver County.....	June 1-Aug. 31.....	35		
El Paso County.....	July 1-Aug. 31.....	3		
Huerfano County.....	June 1-Aug. 31.....	15		
Kit Carson County.....	June 1-30.....	4		
Larimer County.....	June 1-30.....	1		
Las Animas County.....	June 1-Aug. 31.....	7		
Logan County.....	June 1-30.....	1		
Mesa County.....	June 1-30.....	1		
Montrose County.....	June 1-30.....	5		
Otero County.....	June 1-30.....	4		
Prowers County.....	June 1-July 31.....	12		
Pueblo County.....	July 1-31.....	1		
Rio Grande County.....	June 1-30.....	4		
Saguache County.....	June 1-July 31.....	13		
San Miguel County.....	June 1-30.....	1	1	
Teller County.....	June 1-July 31.....	2		
Weld County.....	June 1-30.....	5		
Total for State.....		144	6	
District of Columbia.....				
	July 3-Sept. 10.....	14		
Total for District.....		14		
Florida:				
Brevard County.....	Aug. 7-13.....	1		
Duval County.....	June 19-25.....	2		
Gadsden County.....	July 3-Aug. 13.....	11		
Hillsboro County.....	July 17-Aug. 6.....	2		
Jackson County.....	June 19-Aug. 6.....	3		
Jefferson County.....	July 10-Aug. 6.....	4		
Leon County.....	Mar. 1-31.....		1	
Liberty County.....	July 17-23.....	14		
Santa Rosa County.....	July 31-Aug. 6.....	2		
Taylor County.....	July 3-9.....	1		
Walton County.....	June 12-18.....	1		
Total for State.....		41	1	
Georgia:				
Columbus.....	July 3-9.....	6		
Macon.....	Apr. 1-June 30.....	8		
Total for State.....		14		
Illinois:				
Adams County.....	June 1-30.....	2		
Clay County.....	June 1-30.....	1		
Coles County.....	June 1-30.....	22		
Cook County.....	June 1-30.....	1		
Chicago.....	June 1-30.....	1		
Edgar County.....	June 1-30.....	2		
Franklin County.....	June 1-30.....	1		
Henry County.....	July 1-31.....	3		
Iroquois County.....	June 1-30.....	1		
Jo Daviess County.....	June 1-July 31.....	9		
Kendall County.....	June 1-July 31.....	2		
Knox County.....	June 1-July 31.....	6		
Madison County.....	June 1-July 31.....	22		
Marion County.....	June 1-30.....	3		
Montgomery County.....	June 1-30.....	6		
Peoria County.....	June 1-July 31.....	5		
Perry County.....	June 1-30.....	1		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 22, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Pulaski County.....	June 1-30.....	1		
Randolph County.....	June 1-30.....	1		
Richland County.....	June 1-July 31.....	8		
Rock Island County.....	June 1-July 31.....	5		
St. Clair County.....	June 1-30.....	1		
Sangamon County.....	June 1-30.....	1		
Tazewell County.....	June 1-30.....	2		
Union County.....	June 1-30.....	4		
Wayne County.....	June 1-30.....	3		
Williamson County.....	June 1-30.....	2		
Total for State.....		116		
Indiana:				
Allen County.....	May 1-June 30.....	8		
Carroll County.....	June 1-30.....	1		
Clay County.....	June 1-30.....	2		
Clinton County.....	May 1-31.....	1		
DeKalb County.....	June 1-30.....	1		
Delaware County.....	May 1-31.....	4		
Elkhart County.....	May 1-31.....	1		
Gibson County.....	May 1-31.....	1		
Grant County.....	May 1-June 30.....	13		
Greene County.....	May 1-31.....	9		
Howard County.....	May 1-June 30.....	21		
Lake County.....	June 1-30.....	1		
Madison County.....	June 1-30.....	6		
Marion County.....	May 1-June 30.....	6		
Marshall County.....	June 1-30.....	1		
Martin County.....	June 1-30.....	4		
Miami County.....	June 1-30.....	6		
Montgomery County.....	June 1-30.....	6		
Orange County.....	May 1-31.....	18		
Owen County.....	May 1-June 30.....	23		
Putnam County.....	June 1-30.....	1		
St. Joseph County.....	May 1-June 30.....	10		
Tipton County.....	May 1-31.....	1		
Vigo County.....	May 1-June 30.....	28		
Warren County.....	June 1-30.....	1		
Wayne County.....	June 1-30.....	6		
Total for State.....		180		
Iowa:				
Benton County.....	June 1-July 31.....	4		
Buchanan County.....	June 1-30.....	2		
Cedar County.....	July 1-31.....	1		
Clayton County.....	June 1-30.....	1		
Dallas County.....	June 1-30.....	1		
Delaware County.....	June 1-30.....	10		
Dubuque County.....	June 1-30.....	1		
Linn County.....	June 1-Aug. 31.....	41		
Plymouth County.....	Aug. 1-31.....	1		
Polk County.....	June 1-July 31.....	19		
Pottawattamie County.....	June 1-Aug. 31.....	21		
Scott County.....	June 1-July 31.....	4		
Warren County.....	Aug. 1-31.....	7		
Webster County.....	July 1-31.....	1		
Winneshiek County.....	June 1-30.....	1		
Woodbury County.....	June 1-30.....	1		
Total for State.....		116		
Kansas:				
Allen County.....	May 1-July 31.....	39		
Atholson County— Atholson.....	Apr. 1-May 31.....	7		
Barton County.....	June 1-July 31.....	7		
Butler County.....	Apr. 1-June 30.....	8		
Cherokee County.....	June 1-30.....	4		
Clay County.....	July 1-31.....	1		
Cofey County.....	July 1-31.....	1		
Cowley County.....	Apr. 1-July 31.....	12		
Crawford County.....	June 1-30.....	4	1	
Decatur County.....	Apr. 1-July 31.....	37		
Dickinson County.....	May 1-June 30.....	10		
Doniphan County.....	Apr. 1-30.....	10		
Edwards County.....	Apr. 1-June 30.....	4		
Elk County.....	May 1-July 31.....	6		
Ellis County.....	July 1-31.....	3		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Ellsworth County.....	Apr. 1-30.....	1		
Finney County.....	Apr. 1-30.....	2		
Ford County.....	June 1-30.....	1		
Graham County.....	Apr. 1-May 31.....	6		
Greenwood County.....	Apr. 1-June 30.....	56		
Harper County.....	May 1-June 30.....	3		
Harvey County.....	Apr. 1-June 30.....	22		
Hodgeman County.....	July 1-31.....	1		
Jewell County.....	May 1-June 30.....	21		
Kearny County.....	Apr. 1-May 31.....	5		
Kingman County.....	Apr. 1-June 30.....	4		
Labette County—				
Parsons.....	Apr. 1-July 31.....	12		
Lane County.....	May 1-31.....	2		
Leavenworth County.....	Apr. 1-May 31.....	8		
Leavenworth.....	May 1-June 30.....	2		
Lyon County.....	June 1-30.....	11		
Marion County.....	July 1-31.....	1		
McPherson County.....	May 1-June 30.....	14		
Miami County.....	Apr. 1-May 31.....	2		
Montgomery County.....	Apr. 1-July 31.....	63	2	
Coffeyville.....	Apr. 1-June 30.....	12		
Nemaha County.....	July 1-31.....	2		
Neosho County.....	May 1-July 31.....	38		
Norton County.....	Apr. 1-June 30.....	50		
Osage County.....	Apr. 1-May 31.....	6		
Osborne County.....	Apr. 1-June 30.....	33		
Pawnee County.....	Apr. 1-30.....	3		
Phillips County.....	May 1-31.....	6		
Pratt County.....	June 1-July 31.....	2		
Rawlins County.....	June 1-30.....	1		
Reno County.....	Apr. 1-June 30.....	23	3	
Riley County.....	Apr. 1-May 31.....	5		
Rush County.....	Apr. 1-30.....	3		
Saline County.....	Apr. 1-June 30.....	21		
Scott County.....	Apr. 1-May 31.....	5		
Sedgwick County.....	Apr. 1-May 31.....	7		
Wichita.....	Apr. 1-July 31.....	52		
Seward County.....	May 1-31.....	2		
Shawnee County.....	June 1-30.....	1		
Topeka.....	July 1-31.....	7		
Sheridan County.....	Apr. 1-30.....	1		
Sherman County.....	May 1-31.....	1		
Stafford County.....	June 1-July 31.....	4		
Sumner County.....	May 1-31.....	4		
Thomas County.....	Apr. 1-May 31.....	2	1	
Trego County.....	June 1-30.....	1		
Wallace County.....	June 1-30.....	1		
Wyandotte County.....	Apr. 1-30.....	4		
Kansas City.....	Apr. 1-June 30.....	57		
Total for State.....		744	7	
Kentucky:				
Covington.....	June 26-July 2.....	1		
Total for State.....		1		
Louisiana:				
Avoyelles Parish.....	June 1-30.....	12		
Calcasieu Parish.....	June 1-30.....	2		
Iberia Parish.....	June 1-30.....	19		
Orleans Parish.....	June 1-30.....			
New Orleans.....	June 12-Sept. 10.....	91		
St. John Parish.....	June 1-30.....	10		
St. Tammany Parish.....	June 1-30.....	2		
Tangipahoa Parish.....	June 1-30.....	25		
Vermilion Parish.....	June 1-30.....	30		
Total for State.....		191		
Maine:				
Biddeford.....	May 1-31.....	1		
Total for State.....		1		
Maryland:				
Allegany County—				
Cumberland.....	May 1-July 31.....	2		
Total for State.....		2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Massachusetts:				
Middlesex County.....	July 1-31.....	1		
Suffolk County.....	June 1-July 31.....	8		
Total for State.....		9		
Michigan:				
Alcona County.....	June 1-30.....	1		
Arenac County.....	June 1-30.....	2		
Baraga County.....	Aug. 1-31.....	5		
Bay County.....	June 1-Aug. 31.....	9	2	
Benoni County.....	July 1-Aug. 31.....	2		
Cheboygan County.....	June 1-Aug. 31.....	33		
Clare County.....	June 1-July 31.....	12		
Emmet County.....	Aug. 1-31.....	2		
Easton County.....	June 1-30.....	7		
Genesee County.....	June 1-Aug. 31.....	44		
Grand Traverse County.....	July 1-Aug. 31.....	6		
Gratiot County.....	June 1-Aug. 31.....	10		
Houghton County.....	June 1-30.....	3		
Huron County.....	June 1-July 31.....	12		
Ingham County.....	June 1-Aug. 31.....	10		
Ionia County.....	June 1-Aug. 31.....	7		
Isabella County.....	June 1-July 31.....	4		
Kalamazoo County.....	June 1-July 31.....	8		
Kent County.....	June 1-30.....	17		
Keweenaw County.....	July 1-31.....	1		
Lapeere County.....	June 1-July 31.....	16		
Livingston County.....	June 1-30.....	17		
Manistee County.....	June 1-30.....	9	1	
Marquette County.....	June 1-30.....	1		
Mason County.....	June 1-Aug. 31.....	11		
Mecosta County.....	June 1-Aug. 31.....	7		
Midland County.....	June 1-July 31.....	11		
Missaukee County.....	June 1-July 31.....	12		
Monroe County.....	June 1-30.....	2		
Montcalm County.....	July 1-31.....	1		
Muskegon County.....	June 1-30.....	2		
Newaygo County.....	June 1-30.....	2		
Osceola County.....	June 1-Aug. 31.....	5		
Ottawa County.....	June 1-30.....	1		
Roscommon County.....	June 1-30.....	4		
Saginaw County.....	June 1-Aug. 31.....	35		
St. Clair County.....	June 1-Aug. 31.....	51		
Sanilac County.....	June 1-July 31.....	3		
Shiawassee County.....	June 1-Aug. 31.....	54		
Tuscola County.....	June 1-Aug. 31.....	18		
Wayne County.....	June 1-Aug. 31.....	19		
Total for State.....		476	3	
Minnesota:				
Pope County.....	Apr. 1-30.....		1	
St. Louis County.....	June 1-30.....		1	
Rice County.....	Mar. 1-31.....		1	
Beltrami County.....	May 26-June 5.....	4		
Blue County.....	June 6-12.....	1		
Carver County.....	June 13-July 10.....	2		
Faribault County.....	May 28-July 31.....	2		
Hennepin County.....	May 26-July 31.....	53		
Kittson County.....	June 6-19.....	2		
Koochikung County.....	May 26-June 5.....	6		
Lesueur County.....	June 13-19.....	32		
Mooker County.....	June 6-12.....	1		
Mower County.....	July 11-17.....	4		
Ramsey County.....	June 13-July 31.....	22		
Renville County.....	June 6-12.....	1		
Rice County.....	May 26-July 10.....	1		
St. Louis County.....	May 26-June 5.....	10		
Stearns County.....	June 20-26.....	1		
Steele County.....	June 6-19.....	2		
Wabasha County.....	June 13-26.....	2		
Wright County.....	July 4-31.....	2		
Total for State.....		149	3	
Mississippi:				
Natchez.....	July 24-30.....	5		
Total for State.....		5		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Missouri:				
Kansas City.....	May 15-June 30...	32	.....
St. Louis.....	June 12-July 16...	9	.....
Savannah.....	June 26-July 2.....	5	.....
Total for State.....		46	.....
Montana:				
Beaverhead County.....	June 1-30.....	1	.....
Cascade County.....	June 1-30.....	1	.....
Custer County.....	Apr. 1-30.....	.....	1	
Dawson County.....	June 1-July 31.....	12	.....
Fergus County.....	June 1-July 31.....	8	.....
Flathead County.....	June 1-30.....	1	.....
Meagher County.....	June 1-30.....	1	.....
Park County.....	June 1-30.....	2	.....
Rosebud County.....	June 1-30.....	2	.....
Silver Bow County.....	June 1-July 31.....	11	.....
Butte.....	June 1-July 31.....	40	.....
Teton County.....	July 1-31.....	2	.....
Yellowstone County.....	June 1-30.....	2	.....
Total for State.....		83	1	
Nebraska:				
Lincoln.....	Apr. 1-June 30.....	30	.....
South Omaha.....	June 1-30.....	3	.....
Total for State.....		33	.....
New Jersey:				
Cumberland County.....	June 1-Aug. 31.....	7	.....
Total for State.....		7	.....
New York, general.....				
June 1-July 31.....		53	3	
Erle County—				
Buffalo.....	May 1-31.....	1	.....
Tonawanda Township.....	May 1-31.....	2	.....
Niagara County—				
Niagara Falls.....	May 1-31.....	1	.....
North Tonawanda.....	May 1-31.....	1	.....
St. Lawrence County.....	May 1-31.....	19	.....
Schenectady County.....	May 1-31.....	2	.....
Total for State.....		79	3	
North Carolina:				
Forsyth County.....	Feb. 1-28.....	.....	1	
Rowan County.....	Feb. 1-28.....	.....	1	
Alamance County.....	Mar. 1-June 30.....	41	.....
Alexander County.....	Mar. 1-June 30.....	75	.....
Anson County.....	Apr. 1-June 30.....	9	.....
Ashe County.....	Mar. 1-31.....	12	.....
Beaufort County.....	Mar. 1-June 30.....	5	.....
Bladen County.....	Apr. 1-June 30.....	19	.....
Buncombe County.....	June 1-30.....	1	.....
Cabarrus County.....	Mar. 1-June 30.....	15	.....
Caldwell County.....	Mar. 1-June 30.....	12	1	
Catawba County.....	Mar. 1-June 30.....	42	.....
Chatham County.....	Mar. 1-June 30.....	18	.....
Chowan County.....	Mar. 1-31.....	3	.....
Cleveland County.....	June 1-30.....	.....	.....	Few cases.
Columbus County.....	Apr. 1-May 31.....	23	.....
Craven County.....	Mar. 1-31.....	1	.....
Currituck County.....	Mar. 1-June 30.....	23	.....
Davidson County.....	Mar. 1-June 30.....	5	.....
Davie County.....	Mar. 1-31.....	8	.....
Durham County.....	Mar. 1-June 30.....	24	.....
Edgecombe County.....	June 1-30.....	1	.....
Forsyth County.....	Mar. 1-June 30.....	20	.....
Franklin County.....	Mar. 1-31.....	5	.....
Gaston County.....	Mar. 1-June 30.....	13	2	
Graham County.....	Mar. 1-Apr. 30.....	8	.....
Greene County.....	Mar. 1-June 30.....	20	.....
Guilford County.....	Mar. 1-June 30.....	57	.....
Halifax County.....	Mar. 1-31.....	40	.....
Henderson County.....	May 1-June 30.....	6	.....
Hertford County.....	Mar. 1-31.....	1	.....
Iredell County.....	June 1-30.....	20	.....
Johnston County.....	Apr. 1-May 31.....	4	.....	Several cases in May.
Jones County.....	Mar. 1-31.....	1	.....	Several cases in March.

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Lee County.....	Mar. 1-June 30....	6		
Lenoir County.....	Mar. 1-June 30....	19		
Lincoln County.....	Mar. 1-June 30....	3		
Madison County.....	Apr. 1-30.....	5		
Martin County.....	Apr. 1-May 31....	4		
Mecklenburg County.....	Mar. 1-June 30....	24		
Montgomery County.....	Mar. 1-May 31....	47		
Nash County.....	Mar. 1-June 30....	51		
New Hanover County.....	Mar. 1-June 30....	30		
Onslow County.....	Mar. 1-May 31....	5		
Orange County.....	Mar. 1-June 30....	45		
Pamlico County.....	Mar. 1-June 30....	4		
Perquimans County.....	May 1-31.....	1		
Person County.....	May 1-June 30....	4		
Pitt County.....	Mar. 1-May 31....	23		
Polk County.....	Mar. 1-31.....	7		
Richmond County.....	Apr. 1-30.....	2		
Robeson County.....	Apr. 1-May 31....	3		
Rockingham County.....	Mar. 1-31.....	48		
Rowan County.....	Mar. 1-June 30....	43	1	
Sampson County.....	May 1-31.....	2		
Scotland County.....	May 1-31.....	5		
Stanly County.....	Apr. 1-June 30....	26		
Stokes County.....	Mar. 1-31.....	64		
Surry County.....	Mar. 1-31.....	4		
Union County.....	Mar. 1-June 30....	31		
Vance County.....	Apr. 1-30.....	4		
Wake County.....	Apr. 1-May 31....	22		
Warren County.....	Apr. 1-June 30....	26		
Washington County.....	Mar. 1-Apr. 30....	4		
Watauga County.....	Apr. 1-June 30....	26		
Wayne County.....	Apr. 1-May 31....	6		
Wilkes County.....	Mar. 1-June 30....	37		
Wilson County.....	Mar. 1-June 30....	25	1	
Yancey County.....	Mar. 1-31.....	26		
Total for State.....		1,214	7	
North Dakota:				
Bowman County.....	Aug. 1-31.....	37		
Cass County.....	June 1-July 31....	3		
Cavalier County.....	June 1-30.....	1		
Grand Forks County.....	June 1-10.....	4		
Logan County.....	June 1-30.....	1		
McKenzie County.....	June 1-30.....	1		
Morton County.....	July 1-31.....	4		
Pierce County.....	June 1-30.....	1		
Stark County.....	July 1-31.....	1		
Stutsman County.....	Aug. 1-31.....	1		
Traill County.....	June 1-30.....	6		
Ward County.....	June 1-30.....	4		
Total for State.....		64		
Oklahoma, general.				
Atoka County.....	Jan. 1-31.....		1	Reported out of date.
Beckham County.....	May 1-31.....	20		
Beckham County.....	May 1-31.....	2		
Blaine County.....	May 1-31.....	8		
Caddo County.....	May 1-31.....	1		
Canadian County.....	Apr. 1-30.....		1	
Comanche County.....	Apr. 1-30.....		3	
Oklahoma County.....	Apr. 1-30.....		4	
Pottawatomie County.....	Apr. 1-30.....		2	
Canadian County.....	May 1-31.....	17		
Choctaw County.....	May 1-31.....	1		
Coal County.....	May 1-31.....	5		
Comanche County.....	May 1-31.....	4	1	
Custer County.....	May 1-31.....	9		
Garvin County.....	May 1-31.....	1		
Grady County.....	Apr. 1-30.....		1	
Grady County.....	May 1-31.....	6	6	
Haskell County.....	May 1-31.....	7		
Hughes County.....	May 1-31.....	42		
Jefferson County.....	May 1-31.....	3		
Kiowa County.....	May 1-31.....	1		
Lincoln County.....	May 1-31.....	4		
McLain County.....	May 1-31.....	9		
McIntosh County.....	May 1-31.....	11		
Murray County.....	May 1-31.....	1		
Muskogee County.....	May 1-31.....	5		
Noble County.....	May 1-31.....	8		
Nowata County.....	May 1-31.....	3		

SMALLPOX IN THE UNITED STATES—Continued.
Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma, general—Cont'd.				
Oklfuskee County.....	May 1-31.....	1		
Oklahoma County.....	May 1-31.....	1	1	
Okmulgee County.....	May 1-31.....	2		
Pawnee County.....	May 1-31.....	4		
Payne County.....	May 1-31.....	10		
Pittsburg County.....	May 1-31.....	6	1	
Pontotoc County.....	May 1-31.....	12		
Seminole County.....	May 1-31.....	2		
Texas County.....	May 1-31.....	4		
Tillman County.....	May 1-31.....	2		
Tulsa County.....	May 1-31.....	1	1	
Washita County.....	May 1-31.....	1		
Total for State.....		214	22	
Ohio:				
Allen County.....	June 1-30.....	3		
Athens County.....	July 1-31.....	1		
Butler County.....	June 1-July 31.....	4		
Clarke County.....	July 1-31.....	3		
Clinton County.....	June 1-30.....	10		
Columbiana County.....	June 1-July 31.....	6		
Cuyahoga County.....	June 1-July 31.....	16	1	
Fairfield County.....	June 1-30.....	1		
Franklin County.....	June 1-Aug. 31.....	10		
Hamilton County.....	June 1-30.....	1		
Hancock County.....	July 1-31.....	4		
Hocking County.....	June 1-July 31.....	26		
Jefferson County.....	July 1-31.....	1		
Lucas County.....	June 1-Aug. 31.....	7		
Mahoning County.....	July 1-31.....	1		
Marion County.....	July 1-31.....	1		
Perry County.....	June 1-30.....	1		
Pickaway County.....	June 1-30.....	1		
Portage County.....	June 1-30.....	7		
Ross County.....	June 1-Aug. 31.....	73		
Seneca County.....	July 1-31.....	1		
Scioto County.....	June 1-30.....	2		
Stark County.....	June 1-July 31.....	29		
Summit County.....	July 1-31.....	5		
Wayne County.....	June 1-30.....	2		
Wood County.....	June 1-30.....	2		
Total for State.....		218	1	
Oregon:				
Baker County.....	May 1-31.....	1		
Benton County.....	May 1-31.....	2		
Linn County.....	June 1-30.....	2		
Multnomah County.....	Apr. 1-May 31.....	10		
Umatilla County.....	May 1-31.....	1		
Union County.....	May 1-31.....	2		
Wasco County.....	Apr. 1-30.....	2		
Washington County.....	Apr. 1-June 30.....	3		
Yamhill County.....	Apr. 1-June 30.....	15		
Total for State.....		38		
Pennsylvania, general.				
	Apr. 1-30.....		2	
	May 1-June 30.....	29	3	
Total for State.....		29	5	
South Carolina:				
Charleston.....	June 1-July 31.....	28		
Total for State.....		28		
Tennessee:				
Benton County—				
Camden.....	July 1-7.....	2		
Davidson County—				
Nashville.....	June 12-July 9.....	2		
Hamilton County—				
Chattanooga.....	June 12-July 16.....	4		
Knox County—				
Knoxville.....	June 12-July 16.....	8		
Shelby County.....	May 1-June 30.....	39		
Memphis.....	June 12-July 19.....	8		
Total for State.....		63		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas, general.....	Apr. 1-June 30....	839	22	
Total for State.....		839	22	
Utah, general.....	Mar. 1-31.....	112		Report received out of data.
Boxelder County.....	May 1-31.....	1		
Cache County.....	May 1-31.....	6		
Davis County.....	May 1-July 31.....	43		
Juab County.....	June 1-July 31.....	3		
Salt Lake County.....	May 1-July 31.....	31	1	
Utah County.....	May 1-July 31.....	3		
Weber County.....	May 1-July 31.....	25		
Total for State.....		224	1	
Virginia:				One case from the schooner Fersis A. Colwell from Gaspé, Quebec.
Alexandria.....	Aug. 25.....			
Lynchburg.....	June 12-18.....	1		
Total for State.....		1		
Washington, general.....	Feb. 1-Mar. 31.....		4	
Wisconsin:				
Ashland County.....	June 1-Aug. 31.....	17		
Barron County.....	June 1-30.....	1		
Brown County.....	July 1-31.....	5		
Douglas County.....	June 1-July 31.....	3		
Dunn County.....	July 1-31.....	1		
Eau Claire County.....	June 1-July 31.....	4		
Florence County.....	June 1-30.....	4		
Fond du Lac County.....	July 1-31.....	1		
Kenosha County.....	July 1-31.....	1		
Lafayette County.....	June 1-30.....	1		
La Crosse County.....	June 1-30.....	2		
Milwaukee County.....	July 1-Aug. 31.....	13		
Pierce County.....	July 1-31.....	1		
Polk County.....	July 1-Aug. 31.....	6		
Rusk County.....	June 1-30.....	1		
St. Croix County.....	July 1-31.....	5		
Sawyer County.....	June 1-30.....	8		
Waupaca County.....	June 1-Aug. 31.....	4		
Winnebago County.....	July 1-31.....	1		
Total for State.....		79		
Grand total for the United States.....		5,521	86	

PLAGUE IN THE UNITED STATES.

Reports Received from June 25 to September 23, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
San Benito County— Hollister.....	June 5-11.....	1	1	
Santa Clara County— San Jose.....	Sept. 5.....	1		

MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.

[For smallpox and plague see special tables.]

Cities.	Week ended—	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ann Arbor, Mich.	Sept. 3	8			1	1								
Ashtabula, Ohio	do.													
Auburn, N. Y.	do.	11						5						
Aurora, Ill.	do.	7							1					
Baltimore, Md.	Sept. 10	205	32	31	103	15	8	2	12			5		3
Bayonne, N. J.	do.		2	1				2	4			1		
Berkeley, Cal.	Aug. 27	5		1				2						
Biddeford, Me.	Sept. 3	14		2					4					
Do.	Sept. 10	1			1	1								
Boston, Mass.	Sept. 3	188	67	22	30	2	13	1	32	2	12	2	4	2
Braddock, Pa.	do.	14				1	1	2	6	1				
Bridgeport, Conn.	do.	26	3	5	3	1	1	1	1					
Brockton, Mass.	do.	14	4	1	9		2	2	2			2		
Cambridge, Mass.	do.	26	4	4			1		2	1	2		2	1
Camden, S. C.	Sept. 10	1												
Canton, Ohio.	Sept. 3	14			1	1			3					
Carbondale, Pa.	do.	9			1				2					
Chattanooga, Tenn.	do.				1				1					
Chelsea, Mass.	do.	23	2	4			2		3					
Chicago, Ill.	Sept. 10	636	83	62	68	14	70	3	100	13	15	2	37	3
Chicopee, Mass.	do.	5					1		1					
Cleveland, Ohio.	Sept. 3	151	31	5	18		17	2	18	4	1		7	3
Columbus, Ga.	Sept. 10	7		1		1								
Columbus, Ohio.	Sept. 3	44	4	3	11				1					
Concord, N. H.	do.	11			1				1					
Covington, Ky.	Sept. 10	10			3		1							
Cumberland, Md.	do.	6			27									
Danville, Ill.	Sept. 3	6												
Dayton, Ohio.	do.	37	3	3	46	1	4		3				1	1
Detroit, Mich.	Aug. 27	173				3	16	1	12	1				
Do.	Sept. 3	145				3	12		7					
Do.	Sept. 10	151					5		15	3				
Dubuque, Iowa.	Sept. 3			6					4	1				
Duluth, Minn.	do.	28	2	1	1		3							
Dunkirk, N. Y.	do.	11	2		1				1				1	
Elizabeth, N. J.	do.	17		3			2	1	5					
Elmira, N. Y.	Aug. 27	11			2		1		1					
Do.	Sept. 3	7			4		1							
Everett, Mass.	do.	7	1	1					4					
Galesburg, Ill.	do.	5							1					
Grand Rapids, Mich.	do.	51	4	1	6				1		1		4	
Harrison, N. J.	do.	4					2							
Haverhill, Mass.	Sept. 10	13	6	1	1		2		3					
Homestead, Pa.	Aug. 21	11			6		8	1	1	1				1
Do.	Aug. 28	9			3		7		1		2			
Johnstown, Pa.	Sept. 10	22	2		13		1		1				1	
Kalamazoo, Mich.	Sept. 3	16	1		1	1			1		1		8	
Kearney, N. J.	do.	3			1				1					
Kingston, N. Y.	Sept. 1	16		1										
Do.	Sept. 3	13		1	2		1							
Knoxville, Tenn.	do.	8							3					
La Crosse, Wis.	do.	4					3							
La Fayette, Ind.	do.	1					1							
Lawrence, Mass.	do.	33	1	2			5		2					1
Lebanon, Pa.	Sept. 10	7			1				1	1				
Lexington, Ky.	Aug. 13	13			7				3	1			6	1
Do.	Aug. 20	18			2		1						9	
Do.	Aug. 27	8		1	1	1					1			
Do.	Sept. 3	17		1	1	2					1		2	
Los Angeles, Cal.	Aug. 27	67	14	19	3	1	4							
Lowell, Mass.	Sept. 10	31	1	3	28	1	1		4	7	3			
Lynchburg, Va.	Sept. 3					1	2		2	2	2			
Malden, Mass.	do.	8							1	1	5			
Manchester, N. H.	do.	28	1	1	1			2					1	1
Marquette, Mich.	do.	0			2									
Marlboro, Mass.	do.	4	1		3									
Medford, Mass.	Sept. 10	3											1	

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Milwaukee, Wis.....	Sept. 3	92	17	4	20	4	15	.....	17	2	5	.....	4	1
Mobile, Ala.....	do.	15	.....	5	2	1	.....	.....	1	.....	.....	.....	.....	.....
Moline, Ill.....	do.	5	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....
Morristown, N. J.....	Aug. 27	2	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	.....
Do.....	Sept. 3	5	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....
Nashville, Tenn.....	Sept. 10	39	2	2	16	5	5	.....	.....	.....	.....	.....	.....	.....
Newark, N. J.....	Sept. 3	83	12	14	7	.....	8	.....	21	1	.....	.....	.....	.....
New Orleans, La.....	do.	113	29	5	12	5	.....	.....	3	.....	1	.....	.....	.....
New York, N. Y.....	do.	1,267	525	141	170	22	60	4	180	14	82	5	29	9
Norristown, Pa.....	Aug. 21	16	.....	2	.....	.....	.....	.....	1	.....	1	.....	.....	.....
Do.....	Aug. 27	14	.....	1	2	.....	.....	.....	1	1	.....	.....	2	.....
Do.....	Sept. 3	5	6	.....	2	.....	5	.....	.....	.....	1	.....	.....	.....
North Adams, Mass.....	Sept. 10	6	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Northampton, Mass.....	Sept. 6	8	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....
Orange, N. J.....	Sept. 3	12	.....	1	2	2	.....	.....	.....	.....	1	.....	.....	.....
Ottumwa, Iowa.....	do.	13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Paducah, Ky.....	do.	17	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....	1
Peekskill, N. Y.....	do.	3	1	1	3	.....	1	.....	.....	.....	.....	.....	.....	.....
Philadelphia, Pa.....	Sept. 10	92	45	77	10	17	2	44	2	21	5	16	15	.....
Pittsburg, Pa.....	Aug. 13	146	30	10	20	1	9	2	11	2	6	3	24	3
Pittsfield, Mass.....	Sept. 3	9	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....
Portsmouth, N. H.....	do.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pottstown, Pa.....	do.	8	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Providence, R. I.....	do.	45	6	11	.....	5	.....	3	1	.....	.....	.....	.....	1
Racine, Wis.....	do.	13	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
St. Louis, Mo.....	do.	183	29	21	45	4	14	2	17	2	11	6	9	1
San Antonio, Tex.....	do.	7	.....	7	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
San Francisco, Cal.....	do.	123	25	15	14	3	10	.....	10	2	13	1	10	2
Seattle, Wash.....	Aug. 27	46	6	4	11	3	3	.....	.....	.....	14	.....	.....	.....
Do.....	Sept. 3	42	6	3	7	.....	.....	4	1	.....	5	.....	5	1
Steelton, Pa.....	Sept. 10	6	1	2	.....	.....	2	3	3	.....	.....	.....	.....	.....
Superior, Wis.....	Sept. 3	6	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....
Taunton, Mass.....	do.	16	3	.....	4	.....	.....	.....	.....	.....	1	.....	.....	.....
Trenton, N. J.....	Sept. 10	6	5	9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Warren, Pa.....	Aug. 20	5	.....	2	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Aug. 27	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.....	Sept. 3	2	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wichita, Kan.....	do.	15	.....	2	.....	1	.....	.....	1	.....	.....	.....	.....	.....
Wilkes-Barre, Pa.....	do.	18	2	1	13	1	4	.....	1	1	.....	.....	.....	.....
Williamsport, Pa.....	do.	34	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....
Wilmington, Del.....	Sept. 10	24	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2
Do.....	Sept. 3	22	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woburn, Mass.....	do.	8	.....	.....	.....	.....	8	.....	1	.....	2	.....	.....	.....
Worcester, Mass.....	do.	45	5	3	24	4	1	.....	12	.....	.....	.....	.....	.....
Yonkers, N. Y.....	do.	18	5	2	9	.....	2	.....	.....	.....	.....	.....	.....	.....
Do.....	Sept. 10	28	12	4	1	1	.....	.....	1	.....	.....	.....	.....	1

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

CALIFORNIA—*San Diego*.—Month of August, 1910. Population 45,000. Total number of deaths from all causes 51, including tuberculosis 7. Cases reported: Scarlet fever 8, diphtheria 1.

CONNECTICUT.—Month of August, 1910. Population, 1,081,423. Total number of deaths from all causes 1,416, including typhoid fever 21, measles 4, scarlet fever 6, diphtheria 16, tuberculosis, pulmonary, 111. Cases reported: Typhoid fever 224 in 54 towns, measles 32 in 14 towns, scarlet fever 63 in 33 towns, diphtheria 127 in 30 towns, tuberculosis 239 in 45 towns.

FLORIDA.—Week ended September 10, 1910. Reports from the state board of health show typhoid fever present in 7 localities with 12 cases, diphtheria in 3 localities with 4 cases, malaria in 5 localities with 6 cases, tuberculosis in 2 localities with 2 cases.

GEORGIA—*Macon*.—Month of August, 1910. Population, 45,000; white 24,000, colored 20,000. Total number of deaths from all causes 36; white 20, colored 16, including typhoid fever 2, tuberculosis 2.

KANSAS.—Month of July, 1910. Population, 1,703,002. Total number of deaths from all causes not reported. The deaths from contagious diseases include typhoid fever 24, measles 3, scarlet fever 1, diphtheria 6, tuberculosis 40. Cases reported: Typhoid fever 127, smallpox 43, measles 146, scarlet fever 43, diphtheria 35, tuberculosis 247.

LOUISIANA—*Shreveport*.—Month of August, 1910. Population, 30,000. Total number of deaths from all causes 71; 35 resident, 36 nonresident, including typhoid fever 2, tuberculosis 13, resident 9, nonresident 4.

MINNESOTA—*St. Paul*.—Month of June, 1910. Population, 235,000. Total number of deaths from all causes 239, including typhoid fever 5, measles 1, scarlet fever 3, diphtheria 12, tuberculosis 26. Cases reported: Smallpox 16, measles 24, scarlet fever 82, diphtheria 101.

OREGON—*Portland*.—Month of July, 1910. Population, 265,000. Total number of deaths from all causes 168, including typhoid fever 1, diphtheria 4, tuberculosis 7. Cases reported: Typhoid fever 11, measles 38, scarlet fever 17, tuberculosis, pulmonary, 14.

UTAH—*Salt Lake City*.—Month of August, 1910. Population, 85,000. Total number of deaths from all causes 121, including typhoid fever 7, scarlet fever 1, tuberculosis 3. Cases reported: Typhoid fever 76, smallpox 1, measles 3, scarlet fever 24, diphtheria 4.

VIRGINIA—*Richmond*.—Month of July, 1910. Population, 127,502 (white 80,911, colored 46,591). Total number of deaths from all causes 216 (white 104, colored 112), including typhoid fever 3, pellagra 2, tuberculosis 24 (white 8, colored 16). Cases reported: Typhoid fever 41, scarlet fever 2, measles 188, diphtheria 3.

FOREIGN AND INSULAR.

MEASURES AGAINST CHOLERA.

On September 6 the following telegram was sent to the quarantine officers and health officers of the North Atlantic, South Atlantic, and Gulf ports:

Suspicion cholera present in Naples.

On September 26 the presence of cholera in Naples having been confirmed by bacteriological examination, the following telegram was sent to the quarantine and health officers above mentioned.

Referring my telegram September sixth, Geddings reports cholera officially declared at Naples on twenty-sixth. Confirmed by bacteriological examination.

ECUADOR.

GUAYAQUIL—Plague and yellow fever.

Passed Assistant Surgeon Parker reports, August 20:

During the two weeks ended August 15 there were reported in Guayaquil 10 cases of plague with 3 deaths, and 9 cases of yellow fever with 1 death. Plague is beginning to appear in a number of places in the city.

INDIA.

CALCUTTA—Cholera and plague.

Acting Assistant Surgeon Allan reports, August 25:

During the week ended August 6 there were reported at Calcutta 6 deaths from cholera and 7 from plague; in all Bengal, 57 cases of plague with 41 deaths; in all India, 1,082 cases of plague with 710 deaths.

KARACHI—Anthrax in interior.

Consul Lupton reports, August 5:

At Kotri, about 110 miles from Karachi, 120 fatal cases of anthrax among goats were reported August 5.

ITALY.

Status of cholera.

Surgeon Geddings reports, September 9:

During the week ended September 4 cholera was reported in Italy as follows:

	Cases.	Deaths.
<i>Province of Bari.</i>		
Andria.....	5	4
Canosa.....	1	0
Barietta.....	30	21
Bitonto.....	1	0
Molfetta.....	19	13
Trani.....	8	5
Spinazzola.....	8	5
<i>Province of Foggia.</i>		
Cerignola.....	3	3
Margherita di Savoia.....	7	8
Trinitapoli.....	25	17
San Ferdinando.....	8	8

Naples.—Doctor Geddings further reported, September 26: The cholera situation in Italy has become suddenly worse. A case of cholera, the diagnosis of which was confirmed bacteriologically, has been officially reported in Naples.

Rome.—A report was received at the Department of State September 27 stating that there were 4 cases of cholera with 1 death at Rome.

NAPLES—Examination of emigrants.

Doctor Geddings reports, September 5:

Vessels inspected at Naples and Palermo week ended September 3.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Aug. 31	Hamburg.....	New York.....	898	260	1,250
31	Ultonia.....	do.....			
Sept. 1	Calabria.....	do.....	204	25	280
1	Re d' Italia.....	do.....	361	30	320
2	Prinzess Irene.....	do.....	385	60	620
2	Duca di Genova.....	do.....	421	55	680
3	Cretic.....	do.....	336	70	420
	Total.....		2,605	500	3,570

PALERMO.

Sept. 2	Calabria.....	New York.....	294	450	75
2	Re d' Italia.....	do.....	165	250	50
	Total.....		459	700	125

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Other causes.	Total.
Aug. 31	Hamburg.....	8	1	11	2	22
31	Ultonia.....					
Sept. 1	Calabria.....	3			2	5
1	Re d' Italia.....	5	3	5	5	18
2	Prinzess Irene.....	11		10	3	24
2	Duca di Genova.....	10	1	6	4	21
3	Cretic.....	7	2		6	15
	Total.....	44	7	32	22	105

PALERMO.

Sept. 2	Calabria.....	17		14	1	32
2	Re d' Italia.....	10		16	1	27
	Total.....	27		30	2	59

JAPAN.

YOKOHAMA—Dysentery and typhoid fever.

Surgeon Irwin reports August 29:

During the period from August 11 to 25, inclusive, there were reported in Yokohama 197 cases of dysentery and 274 of typhoid fever.

ROUMANIA.**Cholera at Galatz.**

The American minister at Bucharest reported to the Department of State, September 16:

The Roumanian Government has officially reported the death from cholera of an Italian seaman at Galatz. The contacts have been quarantined and all precautions taken.

RUSSIA.**Comparative statistics of cholera mortality.**

Consul Snodgrass at Moscow reports, August 9:

The sanitary officer commissioned by the Government to supervise measures taken in the Don territory against the spread of cholera makes the following statement of comparative statistics of mortality from epidemic cholera in Russia during the past three years:

The number of deaths from cholera in 1908 was 17,000; in 1909, 28,000; in 1910, to date, the number already exceeds 25,000.^a The epidemic is spreading from cities to villages and farms.

The wide dissemination of the epidemic may be in part due to the fact that of the 1,082 cities of Russia it is alleged that only 192 have waterworks and only 38 a drainage system.

ODESSA—Cholera and plague.

Consul Grout reports, September 5:

During the week ended September 3 there were reported in Odessa 25 new cases of cholera with 16 deaths. At the close of the week there were 26 cases in hospital.

From September 2 to 4, 6 new cases of plague were reported. There are 41 cases in hospital at this date. The special measures against the spread of plague include the division of the city into 500 sanitary and 72 medical districts, which are under official and medical control.

Information was received from Warsaw September 2 that cholera was present in the Warsaw district. For the week ended September 2, 25 cases and 28 deaths were reported, with a total from the date of the appearance of the disease of 1,157 cases with 566 deaths.

SIAM.**BANGKOK—Quarantine against Singapore withdrawn.**

Consul-General Tarler reports, July 16:

Cholera and smallpox being no longer epidemic at Singapore the quarantine at Bangkok imposed against that port by official order of June 10 was withdrawn July 13 by the ministry of local government in accordance with the laws governing navigation in Siamese waters.

TURKEY.**CONSTANTINOPLE—Cholera.**

The consul-general at Constantinople reported to the Department of State September 26 that cholera was present in Constantinople.

^a The Official Messenger (Russia) of September 3 gives the following figures for all Russia from the beginning of the outbreak in May, 1910: Total number of cases of cholera, 154,445; deaths, 74,724.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended September 30, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay	Aug. 17-23		1	
Calcutta	Aug. 1-6		6	
Negapatam	July 30-Aug. 12		18	
Madras	Aug. 13-19		2	
Italy:				
Naples	Sept. 26	1		
Rome	Sept. 27	4	1	
Bari, province—				
Andria	Aug. 27-Sept. 4	5	4	
Barletta	Aug. 27-Sept. 4	30	21	
Biotonto	Aug. 27-Sept. 4	1		
Canoso	Aug. 27-Sept. 4	1		
Molfetta	Aug. 27-Sept. 4	19	13	
Trani	Aug. 27-Sept. 4	8	5	
Spinazzola	Aug. 27-Sept. 4	8	5	
Foggia, province—				
Cerignola	Aug. 27-Sept. 4	3	3	
Margherita di Savoia	Aug. 27-Sept. 4	7	8	
San Ferdinando	Aug. 27-Sept. 4	8	8	
Trinitapoli	Aug. 27-Sept. 4	25	17	
Java:				
Batavia	Aug. 7-13	20	12	
Soerabaya	July 3-15	21	11	
Persia:				
Enzell	Aug. 20		3	
Erzeroum, province	Aug. 31-Sept. 2	10	8	
Romania:				
Galatz	Sept. 16	1	1	An Italian seaman.
Russia, general	Aug. 14-20	16, 106	7, 743	
Cronstadt, city	Aug. 14-20	78	41	
Governments—				
St. Petersburg	Aug. 14-20	60	41	
St. Petersburg	Aug. 14-20	359	176	
Olonetz	Aug. 14-20	1	1	
Vologda	Aug. 14-20	69	47	
Pskov	Aug. 14-20	2	1	
Novgorod	Aug. 14-20	29	15	
Minsk	Aug. 14-20	30	14	
Moguliev	Aug. 14-20	15	15	
Vitebsk	Aug. 14-20	6	2	
Smolensk	Aug. 14-20	6	1	
Podolia	Aug. 14-20	137	64	
Volynia	Aug. 14-20	6	4	
Kieff	Aug. 14-20	242	97	
Tchernigov	Aug. 14-20	82	31	
Poltava	Aug. 14-20	264	107	
Kharkov	Aug. 14-20	274	159	
Orel	Aug. 14-20	70	29	
Koursk	Aug. 14-20	416	206	
Voronega	Aug. 14-20	1, 119	554	
Tambov	Aug. 14-20	480	233	
Toula	Aug. 14-20	10	3	
Riazan	Aug. 14-20	225	130	
Moscow	Aug. 14-20	37	20	
Tver	Aug. 14-20	1		
Iaroslav	Aug. 14-20	187	107	
Kostroma	Aug. 14-20	208	71	
Nijni-Novgorod	Aug. 14-20	219	130	
Kazan	Aug. 14-20	88	30	
Simbirsk	Aug. 14-20	738	363	
Samara	Aug. 14-20	733	327	
Saratov	Aug. 14-20	780	362	
Astrakhan	Aug. 14-20	194	85	
Stavropol	Aug. 14-20	480	256	
Perm	Aug. 14-20	107	32	
Viatka	Aug. 14-20	34	18	
Oufa	Aug. 14-20	169	105	
Orenburg	Aug. 14-20	189	112	
Ekaterinoslav	Aug. 14-20	1, 944	857	
Tauride	Aug. 14-20	216	122	
Kherson	Aug. 14-20	749	299	

^a From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, Sept. 7, 1910.

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

Reports Received During Week Ended September 30, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Governments—Continued.				
Black Sea.....	Aug. 14-20.....	16	15	
Baku.....	Aug. 14-20.....	142	80	
Tiflis.....	Aug. 14-20.....	187	70	
Koutais.....	Aug. 14-20.....	59	20	
Erivan.....	Aug. 14-20.....	197	122	
Tomak.....	Aug. 14-20.....	8	1	
Tobol.....	Aug. 14-20.....	33	8	
Warsaw.....	Aug. 25-Sept. 2.....	25	28	
Territory of Tourgal.....	Aug. 14-20.....	11	7	
Territory of the Oural.....	Aug. 14-20.....	10	8	
Territory of the Don.....	Aug. 14-20.....	2,213	1,069	
Territory of Kuban.....	Aug. 14-20.....	1,056	547	
Territory of Terek.....	Aug. 14-20.....	405	161	
Territory of Daghestan.....	Aug. 14-20.....	207	116	
Territory of Kars.....	Aug. 14-20.....	120	600	
Territory of Sir-Daria.....	Aug. 14-20.....	17	10	
Territory of Akmolinsk.....	Aug. 14-20.....	16	9	
Prefecture of Kertchi-enikale.....	Aug. 14-20.....	30	15	
Prefecture of Sebastopol.....	Aug. 14-20.....	11	9	
Prefecture of Rostov-on-Don.....	Aug. 14-20.....	35	11	
Prefecture of Odessa.....	Aug. 14-20.....	38	26	
Prefecture of Baku.....	Aug. 14-20.....	246	92	
Straits Settlements:				
Singapore.....	Aug. 1-6.....	7	9	
Turkey:				
Constantinople.....	Sept. 27.....			Present.

YELLOW FEVER.

Brazil:				
Para.....	Aug. 28-Sept. 3.....	4	2	
Ecuador:				
Duran.....	Aug. 16-31.....	1		
Guayaquil.....	Aug. 16-31.....	4	2	
Milagro.....	Aug. 16-31.....	2	1	

PLAGUE.

Brazil:				
Río de Janeiro.....	Aug. 8-21.....	1		
China:				
Amoy.....	Aug. 15-20.....		1	
Ecuador:				
Guayaquil.....	Aug. 16-31.....	15	2	
Rocafuerte.....	Aug. 16-31.....	1		
Egypt:				
Alexandria.....	Aug. 10-Sept. 6.....	3	1	
Port Said.....	Aug. 17-27.....	3		
Provinces—				
Assiout.....	Aug. 14-Sept. 7.....	1		
Dakahlieh.....	Aug. 17-26.....	2	2	
Garbieh.....	Aug. 17-27.....	3	2	
Minieh.....	Aug. 15-19.....	3	3	
India:				
Bombay.....	Aug. 17-23.....		29	
Calcutta.....	Aug. 1-6.....		7	
Kurrachee.....	July 31-Aug. 20.....	28	26	
Rangoon.....	Aug. 7-13.....		20	
Russia:				
Moscow.....	Aug. 14-20.....	1	1	
Odessa.....	Aug. 21-27.....	14	6	

SMALLPOX.

Argentina:				
Buenos Aires.....	June 1-30.....		70	
Brazil:				
Bahía.....	July 30-Aug. 5.....	20	13	
Campinas.....	July 17-23.....		1	
Río de Janeiro.....	July 18-21.....	6		

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

Reports Received During Week Ended September 30, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Shanghai.....	Aug. 22-28.....	2		
Cuba:				
Habana.....	Sept. 17.....	1		On s. s. Corcovado, from Coruna.
France:				
Paris.....	Aug. 30-Sept. 3....	2		
Gibraltar.....	Sept. 5-11.....	1	1	
India:				
Madras.....	Aug. 13-19.....		4	
Mexico:				
Mexico.....	Aug. 6-20.....		8	
Portugal:				
Lisbon.....	Aug. 30-Sept. 3....	31		
Russia:				
Moscow.....	Aug. 14-27.....	10	3	
Riga.....	Aug. 26-Sept. 3....	29		
Warsaw.....	June 19-25.....		6	
Spain:				
Almeria.....	Aug. 1-31.....		2	
Barcelona.....	Aug. 29-Sept. 4....		1	
Seville.....	Aug. 1-30.....		1	
Vigo.....	Aug. 29-Sept. 4....		1	
Straits Settlements.....	Aug. 1-6.....	33	9	

Reports Received from June 25 to September 23, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see PUBLIC HEALTH REPORTS for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary, general.....	Sept. 13.....			In 8 localities on Danube between Kressburg and Mohacs.
Galicia—				
Padwoloczyaska.....	June 20.....	1	1	From Russia.
Vienna.....	Aug. 21-27.....	2	1	
China:				
Amoy.....	July 17-Aug. 13....	5	5	
Fatsan.....	July 1.....			Epidemic.
Hankow.....	Aug. 7-13.....	2	1	
Hongkong.....	July 10-16.....	9	6	Imported.
Swatow.....	May 10-June 6.....		254	In vicinity from 3,000 to 4,000 deaths.
Colombo:				
Ceylon.....	July 3-9.....	1		
Germany:				
Kalthoff.....	Sept. 14.....	10	6	Suburb of Marienburg.
Ruhleben (near Berlin).....	June 23-27.....	2	2	Among Russian emigrants.
Spandau (near Berlin).....	Aug. 29.....	2	1	
India:				
Bombay.....	June 8-Aug. 16....		22	
Calcutta.....	May 1-July 30....		432	
Kurrachee.....	July 24-30.....	1	1	
Madras.....	May 21-Aug. 12....		5	
Moulmine.....	May 1-7.....	1	1	
Negatapam.....	Apr. 16-July 29....		181	
Rangoon.....	May 8-July 30....		14	
Italy:				
Province of Bari—				
Andria.....	Aug. 17-27.....	24	17	
Barietta.....	Aug. 17-27.....	34	56	
Bisceglie.....	Aug. 17-20.....	2	2	
Bitonto.....	Aug. 17-27.....	2	1	
Canosa.....	Aug. 17-27.....	6	2	
Grumo Appula.....	Aug. 17-27.....	1		
Molfetta.....	Aug. 17-27.....	2		
Ruvo.....	Aug. 17-27.....	3	1	
Spinazzola.....	Aug. 17-27.....	7	3	
Trani.....	Aug. 17-27.....	83	62	

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

Reports Received from June 25 to September 23, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Italy—Continued.				
Province of Foggia—				
Cerniola.....	Aug. 17-27.....	8	2	
Margherita di Savoia.....	Aug. 17-27.....	9	7	
Ortanova.....	Aug. 17-27.....	1	1	
San Ferdinando.....	Aug. 17-27.....	1	3	
Trinitapoli.....	Aug. 17-27.....	16	5	
Province of Potenza—				
Genzano.....	Aug. 17-27.....	2	1	
Palazzo San Gervaso.....	Aug. 17-27.....	1	1	
Japan:				
Awajii Island.....	July 22-23.....	3	1	
Ibogun.....	Aug. 5.....	3	1	
Kobe.....	Sept. 21.....	1	1	Present.
Mojil.....	Aug. 13.....	1	1	On s. s. Helios.
Nagasaki.....	Aug. 15.....	1	1	On s. s. Kasuga Maru from Shanghai.
Osaka.....	Aug. 6-13.....	1	1	
Yokahama.....	Aug. 22.....	1	1	On s. s. Siberia from Shanghai.
Java.....				
Batavia.....	May 8-July 30.....	260	185	} Mainly among natives.
Samarang.....	May 8-June 4.....	187	152	
Soerabaya.....	May 8-June 11.....	62	36	
Netherlands:				
Rotterdam.....	July 23-29.....	1	1	From a vessel from Russia.
Persia:				
Ardabil.....	July 1-6.....	20	6	
Hassan Branch.....	July 11-13.....	6	2	
Philippine Islands:				
Manila.....	May 22-Aug. 6.....	122	89	July 29, one fatal case from s. s. Batangueno.
Provinces—				
Batangas.....	May 1-Aug. 6.....	128	57	
Bulacan.....	May 1-Aug. 6.....	678	472	
Cavite.....	June 12-30.....	3	2	
Mountain Province.....	June 26-July 30.....	4	3	
Nueva Ecija.....	June 26-Aug. 6.....	329	223	
Pampanga.....	Apr. 24-Aug. 6.....	232	211	
Pangastnan.....	Apr. 24-Aug. 6.....	3,441	2,612	
Rizal.....	June 12-Aug. 6.....	114	74	
Tarlac.....	May 8-Aug. 6.....	108	79	
Union.....	May 1-July 30.....	3	1	
Russia (total for all Russia).....				
				May 8-Aug. 21—cases, 154,445; deaths, 74,724. June 25, present in districts of Igoumen, Mazir, Pinsk, Retchitsk, and Sloutsk.
A molinsk, territory.....				
Archangel, government—	Aug. 7-13.....	13	3	
Archangel.....	July 17-23.....	1	1	
Astrakhan, government.....	July 3-Aug. 13.....	1,230	550	
Baku, government.....	May 29-Aug. 13.....	774	372	
Baku.....	July 3-Aug. 13.....	447	183	
Bessarabia.....	June 5-Aug. 13.....	55	16	
Black Sea, province.....	July 3-Aug. 13.....	459	140	
Cronstadt.....	July 17-30.....	10	2	
Daghestan, territory.....	July 17-Aug. 13.....	296	182	
Don, territory.....	May 29-Aug. 13.....	16,291	7,437	
Rostov on the Don.....	June 19-Aug. 6.....	2,885	977	
Erivan, government.....	July 24-Aug. 13.....	137	65	
Esthonia, government—				
Reval.....	July 24-30.....	1	1	
Finland.....	Aug. 6.....	2	2	
Kaluga, government.....	July 17-Aug. 6.....	21	3	
Kars, territory.....	Aug. 7-13.....	93	39	
Kharkov, government.....	May 29-Aug. 6.....	2,179	870	
Khasan.....	June 26-Aug. 13.....	1,314	549	
Kherson, government.....	May 29-Aug. 6.....	5,780	3,541	
Odessa, government.....	May 29-Aug. 13.....	442	221	June 18-20—Fatal case on steamship Colenzo. Aug. 1-30—cases, 126; deaths 78.
Kief, government.....	May 29-Aug. 13.....	1,123	397	
Kostroma, government.....	July 10-Aug. 13.....	342	162	
Koutals, government.....	Aug. 7-13.....	159	166	
Kuban, government.....	May 29-Aug. 6.....	15,168	7,883	
Kursk, government.....	June 26-Aug. 13.....	2,576	759	
Livonia, government—				
Riga.....	Aug. 1-6.....	1	1	

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

Reports Received from June 25 to September 23, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Amolinsk, territory—Cont'd.				
Minsk, government.....	May 29-Aug. 13....	271	82	
Mohilev, government.....	May 15-Aug. 13....	113	42	
Moscow, government.....	July 24-Aug. 13....	24	17	
Moscow.....	July 10-30.....	10	5	
Nishnynogorod, govern- ment.....	July 3-Aug. 13....	1,172	443	
Novgorod, government.....	July 17-Aug. 13....	174	68	
Orel, government.....	May 30-Aug. 13....	205	75	
Orenburg, government.....	July 17-Aug. 13....	637	328	
Orlov.....	July 3-9.....	22	8	
Pern, government.....	July 17-30.....	55	19	
Podolia, government.....	July 3-Aug. 13....	327	114	
Pensa, government.....	July 10-Aug. 13....	401	138	
Pern, government.....	July 24-30.....	41	15	
Poltava, government.....	May 29-Aug. 13....	2,307	912	
Rjasan, government.....	July 3-Aug. 13....	1,253	477	
St. Petersburg, govern- ment—	July 10-Aug. 13....	198	71	
St. Petersburg.....	June 19-Aug. 13....	1,545	600	
Samara, government.....	June 19-Aug. 13....	5,062	2,200	
Sarapul, government.....	July 17-30.....	530	283	
Saratov, government.....	June 19-Aug. 13....	2,370	877	
Simbirsk, government.....	June 19-Aug. 13....	1,139	451	
Smolensk.....	July 24-Aug. 13....	17	10	
Stavropol, government.....	June 26-Aug. 13....	3,641	1,766	
Syr Darya.....	July 24-Aug. 6....	5	3	
Tambov, government.....	June 19-Aug. 13....	2,127	984	
Taurida, government.....	May 29-Aug. 13....	3,442	1,666	
Kertsch.....	May 29-Aug. 13....	434	195	
Sebastopol.....	June 19-Aug. 13....	24	12	
Theodosia.....	June 19-25.....	.....	.....	Present.
Terak, territory.....	June 19-Aug. 13....	506	295	
Tiflis, government.....	July 17-Aug. 13....	741	298	
Tiflis.....	June 19-July 16....	113	41	
Tchernigov.....	May 29-Aug. 13....	879	313	
Tobal.....	Aug. 7-13.....	14	8	
Trans-Caspian, territory.....	July 3-Aug. 13....	57	24	
Trans-Caucasia—				
Tschernomorsk, dis- trict—				
Novorossysk.....	June 19-July 3....	7	6	
Tula, government.....	July 10-23.....	7	2	
Tula, government.....	July 24-30.....	10	4	
Turgal, territory.....	July 24-Aug. 13....	9	5	
Tver, government.....	July 24-30.....	4	.....
Ufa, government.....	July 10-Aug. 13....	407	251	
Vitebsk, government.....	May 29-July 30....	28	2	
Veronesch, government.....	May 29-Aug. 13....	953	429	
Viatka.....	July 24-Aug. 13....	190	100	
Vladimir, government.....	July 24-30.....	7	2	
Volhynia, government.....	July 3-30.....	38	19	
Yaroslavl, government.....	July 24-Aug. 13....	575	271	
Yaroslavl.....	July 10-23.....	25	13	
Yekaterinislav, govern- ment.....	May 29-Aug. 13....	10,800	4,771	
Yelisavetpol.....	Aug. 7-13.....	2	1	
Siam:				
Bangkok.....	May 4-July 18....	648	641	
Straits Settlements:				
Singapore.....	May 8-July 30....	91	89	
Turkey:				
Trebizond.....	Sept. 18.....	.....	.....	Present.

YELLOW FEVER.

Brasil:				
Bahia.....	Apr. 30-June 3....	2	2	
Manaos.....	May 30-Aug. 20....	32	32	
Para.....	May 30-Aug. 27....	95	62	July 25: One death on steamship Augustine, en route from Para to Lisbon, 2 days previous to arrival at Madetra.
Pernambuco.....	May 16.....	21	1	

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

Reports Received from June 25 to September 23, 1910.

YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Costa Rica:				
Limon.....	July 9-14.....	1	1	
San Jose.....	May 28-July 9.....	3	2	Fatal case May 28 from Barranquilla; case June 29 from Siquires; fatal case July 9 from Tivives.
Siquires.....	July 31.....	1	1	
Ecuador:				
Guayaquil.....	May 16-Aug. 15....	60	25	
Gold Coast:				
Sekondi.....	May 1-27.....	8	8	
Sierra Leone:				
Freetown.....	May 1-Aug. 1.....	7	7	
Sherboro.....	May 20.....			Present.
Venezuela:				
La Guaira.....	June 16-30.....		1	

PLAGUE.

Argentina:					
Rosario.....	Feb. 1-23.....	1	1		
Tucuman.....	Feb. 26-May 31.....	37	16		
Brazil:					
Bahia.....	Apr. 30-Aug. 13....	6	6		Present.
Para.....	Sept. 21.....				
Pernambuco.....	Apr. 1-June 30.....		2		
Rio de Janeiro.....	June 5.....	1			
Chile:					
Iquique.....	May 8-Aug. 6.....	36	11		Present.
Mejillones.....	Apr. 27.....				
Pisagua.....	Apr. 1-May 31.....	14	4		
Taitai.....	Apr. 1-27.....	12			
China:					
Amoy.....	July 3-30.....		9		May 8-June 11, 8 to 12 deaths daily. Aug. 6, present in vicinity.
Kulangsu, international city.....	June 5-11.....		1		
Canton.....	July 13-Aug. 6....	43	31		Mainly at Ho Peng. Present also at Chelin, Feng-chow-so, Taipushien, and Tsai-tang-shi.
Chao Yang district.....	May 5-19.....		3,000		Epidemic.
Chang-pu district.....	June 11.....				Do.
Ching-chew district.....	June 11.....				
Hankow.....	May 15-28.....	5	3		
Hongkong.....	May 8-Aug. 6.....	18	17		
Swatow.....	June 1-July 11.....				Present in vicinity.
Ecuador:					
Guayaquil.....	May 16-Aug. 15....	28	7		
Egypt:					
Alexandria.....	May 24-Aug. 9....	20	12		
Ishmallia.....	June 19.....	1	1		
Port Said.....	June 14-Aug. 16....	24	11		
Provinces—					
Assiout.....	May 26-Aug. 13....	17	9		
Assouan.....	Apr. 30-June 8....	2	2		
Beni Souef.....	May 27-June 29....	8	5		
Dakalyieh.....	Aug. 16.....	1			
Galloobeah.....	May 21-July 29....	8	1		
Garbieh.....	May 14-Aug. 16....	22	9		
Fayoum.....	May 28-July 11....	20	14		
Kena.....	May 27-June 18....	24	22		
Menouf.....	May 24-July 22....	117	22		
Minieh.....	May 31-Aug. 15....	21	6		
Hawaii:					
Honolulu.....	July 5-12.....	2	2		
India:					
Bombay.....	May 18-Aug. 16....		789		
Calcutta.....	May 1-July 30.....		492		
Kurrachee.....	May 15-July 30....	267	259		
Madras.....	June 25-July 1....		1		
Rangoon.....	May 8-Aug. 6.....		374		
Bombay Presidency and Sind.....	May 1-July 16....	2,831	2,459		
Madras Presidency.....	May 1-July 16....	275	203		

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

Reports Received from June 25 to September 23, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India—Continued.				
Bengal.....	May 1-July 16....	1,220	1,104	
United provinces.....	May 1-July 16....	6,111	5,609	
Punjab.....	May 1-July 16....	43,740	38,133	
Burma.....	May 1-July 16....	1,359	1,285	
Eastern Bengal and Assam.	June 12-July 9....	48	45	
Central provinces, including Berar.	May 1-July 16....	196	129	
Mysore State.....	May 1-July 16....	283	202	
Hyderabad State.....	May 1-July 16....	101	76	
Central India.....	May 1-July 16....	28	22	
Rajputana and Ajmer-Merwara.	May 1-July 16....	7,881	6,991	
Kashmir.....	May 1-June 11....	58	49	
North West Province.....	June 12-18.....	3	3	
Grand total.....		64,154	56,310	
Japan:				
Formosa.....	May 8-June 18....	16	12	
Osaka.....	May 1-June 25....	9	9	
Malta:				
Valletta.....	July 16.....	1		In quarantine station on Comina Island, from s. s. North Wales.
Mauritius:				
Mauritius.....	Apr. 1-June 30....	14	9	
New Zealand:				
Auckland.....	May 23.....	1		
Persia:				
Bouchir.....	Apr. 29-June 25....	51	40	
Peru:				
Arequipa Department.....	Mar. 1-31.....	16	8	
Mollendo.....	May 16-June 19....	1	1	Aug. 12, one case.
Callao Department.....	Mar. 1-31.....	2		
Callao.....	May 12-19.....	2		Case May 12 from s. s. Victoria; case May 19 from s. s. Nicarie; June 23, present.
Lambayeque Department:				
Libertad Department.....	Mar. 1-July 31....	40	20	
Limá Department.....	Mar. 1-July 31....	55	39	
Piura Department.....	Mar. 1-July 31....	20	12	
Piura Department.....	Mar. 1-July 31....	6	3	
Rhodes:				
Aplakia.....	May 22-23.....			Present.
Russia:				
Astrakhan, government—				
Khrgyz Steppe.....	June 26-July 7....	13	12	In Kalmuk and Narinsk.
Odessa.....	July 18-Aug. 20....	54	9	
St. Petersburg.....	May 6-28.....	3	3	
Siam:				
Bangkok.....	Apr. 25-July 18....	22	20	
Straits Settlements:				
Singapore.....	May 8-28.....	3	3	
Trinidad:				
Port of Spain.....	May 15-July 14....	2	2	
Tunis:				
Tunis.....	June 30.....	5	3	
Turkey in Asia:				
Basra.....	June 12-Aug. 13....	5	4	
Lobeia.....	May 1-24.....	25	27	And vicinity.
Venezuela:				
Caracas.....	July 30-Aug. 13....	2	2	
Zanzibar:				
Zanzibar.....	Sept. 10.....	1		

SMALLPOX.

Abyssinia:				
Adis Ababa.....	May 16-Aug. 20....			Present.
Argentina:				
Buenos Aires.....	Feb. 1-May 31....		292	
Mendoza, province.....	July 27.....			Epidemic.
Rosario.....	Feb. 1-June 30....	4	4	Report for February received out of date.
San Juan, province.....	July 27.....			Epidemic.
Algeria:				
Bona.....	May 1-31.....	1	1	

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

Reports Received from June 25 to September 23, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Maskat.....	July 19-23.....	1		
Australia:				
Victoria, general.....	Apr. 3-19.....	1	1	
Austria-Hungary:				
Bukowina.....	July 10-16.....	1		
Galicia.....	May 29-July 23.....	5		
Barbados.....	Aug. 16.....	1		From steamship Byron.
Belgium:				
Antwerp.....	July 24-30.....	1		
Ghent.....	July 24-30.....		1	
Brazil:				
Bahia.....	Apr. 30-July 29.....	250	193	
Manaos.....	Aug. 6.....			Present.
Para.....	May 29-Aug. 20.....	43	18	
Pernambuco.....	Mar. 16-June 30.....		331	
Rio de Janeiro.....	Apr. 18-24.....	1		
Santos.....	May 22-July 16.....		11	
Sao Paulo.....	June 12-25.....		4	
Canada:				
British Columbia—				
Fernie.....	June 12-25.....	4		
Vancouver.....	May 1-31.....	2		
Victoria.....	Aug. 21-Sept. 3.....	2		
Manitoba—				
Winnipeg.....	June 19-25.....	1		
Nova Scotia—				
Halifax.....	June 14-Sept. 3.....	13		
Pictou.....	June 12-July 23.....	9	1	
Sydney.....	July 3-16.....	20		
Ontario—				
Toronto.....	June 5-Aug. 27.....	12		
Ceylon:				
Colombo.....	June 26-July 30.....	1	1	
Chile:				
Antofagasta.....	July 3-9.....	4		
Chilean.....	May 14.....			Epidemic.
Santiago.....	June 19-25.....			Present.
Valparaiso.....	May 19-Aug. 13.....	177		Deaths not reported.
Victoria.....	May 14.....			Present.
China:				
Canton.....	May 8-28.....	9		
Chefoo.....	June 18-July 2.....	1	1	June 5—Present. July 2—One case from a vessel.
Hongkong.....	May 8-July 30.....	6	3	
Nanking.....	May 7-Aug. 13.....			Present.
Shanghai.....	May 22-Aug. 7.....	5	43	Cases among foreigners, deaths among natives. June 9—Three cases from U. S. cruiser New Orleans from Nanking.
Swatow.....	June 6-July 17.....			Present.
Tsingtau.....	June 12-18.....	2		
Egypt, general.....	Apr. 30-June 17.....	415	85	
Alexandria.....	May 1-June 30.....	4	10	
Cairo.....	May 21-Aug. 5.....	10	5	
Suez.....	May 21-27.....	1		
France:				
Paris.....	May 29-Aug. 20.....	32		
Germany, general.....	May 29-Aug. 6.....	18		
Hamburg.....	June 5-11.....	1		
Gibraltar.....	June 20-July 17.....	4	1	
Great Britain:				
Liverpool.....	July 17-Aug. 20.....	2		
London.....	June 19-Aug. 6.....	6		
South Shields.....	May 22-June 4.....	4	1	
Hawaii:				
Hilo.....	Sept. 10.....	1		Case on s. s. <i>Wilhelmina</i> , from San Francisco via Honolulu.
India:				
Bombay.....	May 18-Aug. 16.....		116	
Calcutta.....	July 10-16.....		1	
Kurrachee.....	May 15-July 16.....	12	3	
Madras.....	May 14-Aug. 12.....		17	
Rangoon.....	May 8-Aug. 6.....		37	
Italy, general.....	May 30-Aug. 7.....	66		
Genoa.....	June 16-30.....	1		
Naples.....	May 30-Aug. 21.....	88	17	June 26—One case from s. s. <i>San Giovanni</i> . One case, July 3, on s. s. <i>Pannonia</i> .

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

Reports Received from June 25 to September 23, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Formosa.....	May 22-July 16....	3	4	
Java:				
Batavia.....	May 22-July 16....	3	.....
Korea:				
Fusan.....	May 1-7.....	1	.....
Seoul.....	May 26-July 2....	3	4	
Malta.....	May 22-July 30....	18	2	
Mexico:				
Aguscallentes.....	June 5-Aug. 6.....	.....	26	
Guadalajara.....	June 11-July 2....	.....	6	
Mexico.....	May 15-Aug. 6.....	.....	22	
San Luis Potosi.....	May 29-July 30....	9	5	
Veracruz.....	July 3-9.....	1	.....
Persia:				
Kerman.....	July 2.....	.....	.....	Present.
Teheran.....	May 1-31.....	.....	28	Among pilgrims.
Portugal:				
Lisbon.....	May 29-Aug. 27....	609	.....	Jan. 1-July 23, deaths 126.
Russia:				
Litau.....	May 30-Sept. 2....	142	9	
Moscow.....	May 22-Aug. 13....	159	63	
Odessa.....	May 22-July 30....	60	12	
Riga.....	May 29-Aug. 27....	356	.....	Apr. 1-June 30, deaths 88.
St. Petersburg.....	May 8-Aug. 27....	367	148	
Warsaw.....	Mar. 6-June 18....	.....	142	
Siam:				
Bangkok.....	Apr. 25-June 18....	3	3	
Siberia:				
Vladivostok.....	Apr. 22-July 21....	6	.....
Spain:				
Almeria.....	June 1-30.....	.....	1	
Barcelona.....	May 31-Aug. 28....	.....	15	
Cadix.....	May 1-31.....	.....	1	
Madrid.....	May 1-July 31....	.....	5	
Seville.....	May 1-July 31....	.....	4	
Valencia.....	June 19-July 23....	6	.....
Vigo.....	June 12-Aug. 28....	.....	5	
Straits Settlements:				
Penang.....	May 29-July 30....	4	3	
Singapore.....	May 8-July 30....	95	29	
Switzerland:				
Thurgau, Canton.....	July 10-16.....	1	.....
Zurich, Canton.....	June 19-Aug. 27....	8	.....
Tripoli:				
Tripoli.....	June 12-18.....	1	.....
Turkey:				
Constantinople.....	Aug. 22-28.....	.....	1	
Turkey in Asia:				
Basra.....	June 5-Aug. 13....	.....	.....	Present.
Uruguay:				
Montevideo.....	Apr. 1-June 30....	654	273	
San Jose.....	July 7.....	.....	.....	Do.
Zanzibar:				
Zanzibar.....	June 1-July 31....	95	41	

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES..

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—																
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.						
Aberdeen	Aug. 27	185,703	39																	
Amoy	Aug. 13	400,000	9																	
Amsterdam	Sept. 3	571,225	126	21		3					1									1
Antwerp	Aug. 27	326,351	64	2																1
Do.	Aug. 30		71	9																
Bahia	Aug. 5	286,000	23	14								1								
Barcelona	Sept. 4	591,272	285	25							3		5		1					
Barranquilla	Aug. 27	40,000	30	1																
Do.	Sept. 3		14	1																
Batavia	Aug. 13	217,630	16			12			1											
Berlin	Aug. 27	2,123,232	585	31							2		3		13					3
Birmingham	Sept. 10	570,113	107												1					
Bombay	Aug. 23	977,822	610	56	29	1					3									
Bradford	Sept. 3	295,865	69	6							1									1
Bremen	do.	235,648	56	10																
Brussels	do.	720,030	176	16																
Budapest	Aug. 27	950,610									4		9		4					
Do.	Sept. 3												4		2					
Calcutta	Aug. 6	847,796	360	25	7	6														
Canton	Aug. 13	1,000,000	150	10																
Do.	Aug. 20		140	15																
Catania	Sept. 3	210,000	61	6																
Do.	July 30		61	4																
Chemnitz	Sept. 3	286,885	91	12					1				1							1
Christiania	do.	250,000	46	6									1		2					
Cienfuegos	do.	40,416	14																	
Cologne	do.	513,355	150	14							1		1		2					5
Colombo	Aug. 13	187,554	125	10					16											
Colon	Sept. 10	15,000	14								1									
Constantinople	Sept. 4	1,000,000	177	20																
Copenhagen	Aug. 20	455,000	127	12							2		1		1					
Do.	Aug. 27		131	15									1							1
Dalny	Aug. 20	44,546	40								1									
Dresden	Aug. 27	551,800	140	10							1									
Do.	Sept. 3	552,100	127	14																
Dublin	Aug. 27	402,928	146	17											2					1
Do.	Sept. 3		120	22							1		1		1					4
Dundee	do.	170,206	64	5									1		1					1
Do.	Sept. 10		47	4							1									
Edinburgh	Sept. 3	360,276	75	9									1		2					2
Ghent	Aug. 27	165,475	65	4							1									
Glasgow	Sept. 9	872,021	237	6									3		3					
Georgetown	Aug. 20	53,176	41	2							1									
Do.	Aug. 27		69	10							2									
Frankfort on the Main	Sept. 3	409,800	100																	6
Gibraltar	Sept. 4	23,915	4												1					
Do.	Sept. 11	23,915	5																	
Hamburg	Sept. 3	895,804	241	29							3									3
Hankow	Aug. 13	850,000									1									
Do.	Aug. 20	850,000																		
Hull	Sept. 3	280,006	103								1									
Kobe	Aug. 28	387,519	182										3		1					
Konigsberg	Sept. 3	244,200	76	10									3		2					1
Leeds	do.	490,985	132	5											1					3
Do.	Sept. 10		118	7											1					2
Leipzig	Sept. 3	590,329	137	17									3		2					1
Liege	Aug. 27	177,159	55	1									1							
Liverpool	Sept. 3	767,606	240	17											3					8
Do.	Sept. 10		220	26											3					4
London	Sept. 3	7,637,196	1,402	26							3		8		7					25
Londonderry	do.	43,477	12	1									1							10
Madras	Aug. 19	556,000	413																	
Manchester	Sept. 3	631,533	219	17																4
Mexico	Aug. 13	500,000	397	20											2					1
Do.	Aug. 20		382	22							4									
Do.	Sept. 11	100,000	47	5							4		9		1					10
Monterey	Sept. 17	450,000	176	17											3					
Montreal	Aug. 20	1,500,000	792	74	1	17									2					3
Moscow	Aug. 27		712	44											4					2
Do.	Aug. 27														1					2

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Munich.....	Aug. 27	576,000	168	18								1	2	
Do.....	Sept. 3		144	16								1	1	2
Nagasaki.....	Aug. 28	176,970	56	5						1				
Nantes.....	Aug. 27	161,908	64	13						1				
Do.....	Sept. 4		65	13						1				
Newcastle-on-Tyne.....	Aug. 27	285,891	98	6									7	2
Do.....	Sept. 3		78	4								1	3	1
Nottingham.....	Aug. 27	260,000	50											
Nuremberg.....	Aug. 13	323,500	96	9								1		1
Do.....	Aug. 20		117	13								1		1
Odessa.....	Aug. 27	546,000	187	18	6					4	8	6	1	
Penang.....	Aug. 6	103,582	70	17						1				
Do.....	Aug. 13		69	17				3						
Nagoya.....	Aug. 6	399,000	168									1		
Do.....	Aug. 13		148							3	1	1		
Palermo.....	Aug. 6	340,000	129	6							1			
Do.....	Aug. 13		120	6					2				2	
Do.....	Aug. 20		135	6						1	2		1	
Do.....	Aug. 27		98	8							3			
Do.....	Sept. 3		112	5						1	1			
Port Elizabeth.....	Aug. 6	32,959	10	1									1	
Paris.....	Sept. 3	2,776,384	713	177						2		8	7	6
Rangoon.....	Aug. 13	252,155	168		20									
Salina Cruz.....	Sept. 3	4,500	6							1				
Shanghai.....	Aug. 28	565,000	228	6			2							
Sheffield.....	Aug. 27	472,000	137	8									3	10
Do.....	Sept. 3		135	5							1		5	1
Singapore.....	Aug. 6	271,080	282	33		9		9		1				
Smyrna.....	July 2	400,000	98	10									1	
Do.....	July 9		133	21						2	7		1	
Do.....	July 16		53	6						1	1			
Do.....	July 23		90	13						4	6	1		
Do.....	July 30		91	19						3	3	1	1	
Do.....	Aug. 6		85	13						3	5		4	1
Do.....	Aug. 13		113	22						2	4			
Do.....	Aug. 20		76	8						4	4			
Do.....	Aug. 27		73	11						1	3	1		
Do.....	Sept. 3		71	19						4	3		1	
Stettin.....	do.....	239,000	89							1	2	1		
Turin.....	Aug. 18	391,988	125	14						3		1		
Do.....	Aug. 25		112	14						3				
Vigo.....	Sept. 4	40,000	14	3				1						
Warsaw.....	June 11	781,179	333	36				4		1	17	2	3	1
Do.....	June 18		373	30				7		4	9	2	6	4
Do.....	June 25		326	21				6		5	9	1	6	3
Winnipeg.....	Sept. 10	135,000	48	5						2	4			
Yokohama.....	Aug. 29	407,432								1				

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES
(untabulated).

ARGENTINA—*Rosario*.—Month of March, 1910. Population, 177,545. Total number of deaths from all causes 335, including typhoid fever 14, smallpox 1, scarlet fever 1, diphtheria 6, plague 1, tuberculosis 1.

Month of April, 1910. Total number of deaths 364, including diphtheria 3. Month of May, 1910. Total number of deaths 323, including typhoid fever 17, scarlet fever 1, diphtheria 7. Month of June, 1910. Total number of deaths 327, including typhoid

fever 12, smallpox 1, measles 1, scarlet fever 2, diphtheria 9, tuberculosis 27.

BRAZIL—*Ceara*.—Month of July, 1910. Population, 50,000. Total number of deaths from all causes 125, including typhoid fever 9, measles 18, tuberculosis 14.

CANADA—*Dawson*.—Month of July, 1910. Population, 5,000. Total number of deaths from all causes 9, including tuberculosis 2.

Sherbrooke.—Month of August, 1910. Population, 15,300. Total number of deaths from all causes 35, including typhoid fever 1, and tuberculosis 3.

CHILE—*Punta Arenas*.—Month of June, 1910. Population, 12,000. Total number of deaths from all causes 24, including tuberculosis 4.

FRANCE—*Calais*.—Month of July, 1910. Population, 80,000. Total number of deaths from all causes 86, including tuberculosis 20.

Month of August, 1910. Total number of deaths from all causes 108, including tuberculosis 19.

St. Etienne.—Month of July, 1910. Population, 150,000. Total number of deaths from all causes 253, including typhoid fever 2, measles 4, scarlet fever 1, diphtheria 2, and tuberculosis 43.

GREAT BRITAIN.—Week ended August 6, 1910.

England and Wales.—The deaths registered in 77 great towns correspond to an annual rate of 10.7 per 1,000 of the population, which is estimated at 16,940,895

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 15.3 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Lisburn, viz, 4.5, and the highest at Newtownards, viz, 28.6 per 1,000.

Scotland.—The deaths registered in 8 principal towns correspond to an annual rate of 12.3 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Leith, viz, 7.2, and the highest at Dundee, viz, 17.5 per 1,000. The total number of deaths from all causes was 445, including typhus fever 1, measles 5, scarlet fever 2, diphtheria 4.

ITALY—*Genoa*.—Two weeks ended August 15, 1910. Population, 279,163. Total number of deaths from all causes 162, including typhoid fever 2 and tuberculosis 18.

Rome.—Month of March, 1910. Population, 584,308. Total number of deaths from all causes 225, including typhoid fever 7, measles 65, scarlet fever 1, diphtheria 11, tuberculosis 69.

MEXICO—*Tampico*.—Month of August, 1910. Population, 24,500. Total number of deaths from all causes 64, including tuberculosis 9.

SIERRA LEONE—*Freetown*.—Month of June, 1910. Population, 40,000. Total number of deaths from all causes 56, including yellow fever 1.

Month of July, 1910. Total number of deaths from all causes 120, including yellow fever 3.

SOUTH AFRICA—*Johannesburg*.—Four weeks ended August 6, 1910. Population, 180,687. Total number of deaths from all causes 33, including typhoid fever 14, measles 8, scarlet fever 2, and tuberculosis 46.

TASMANIA—*Hobart*.—Month of June, 1910. Population, 185,386. Total number of deaths from all causes include typhoid fever 5, measles 1, and tuberculosis 17.

TURKS ISLANDS.—Four weeks ended August 13, 1910. Population, 1,800. Total number of deaths from all causes 1. No contagious diseases.

URUGUAY—*Montevideo*.—Month of June, 1910. Population, 321,224. Total number of deaths from all causes 546, including typhoid fever 5, smallpox 105, and tuberculosis 65.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,

United States Public Health and Marine-Hospital Service.