

THE NATIONAL CONFERENCE ON PELLAGRA, HELD AT COLUMBIA, S. C., NOVEMBER 3 AND 4, 1909.

By C. H. LAVINDER, Passed Assistant Surgeon, United States Public Health and
Marine-Hospital Service.

The first conference on pellagra held in this country occurred at Columbia, S. C., in November, 1908. It was largely local in its scope. The second, national in character, held in the same city, has just concluded its session. There were approximately 350 delegates present. Many States were represented, and there were present, besides health officials, many members of the medical profession interested in dermatology and psychiatry. The scientific programme was lengthy and the papers were of great interest.

The meeting was opened by an address of welcome by the governor of the State.

The first paper, "Introductory Remarks," was by Dr. F. M. Sandwich, of London. The writer was not present, but his paper was read in full. His paper detailed interestingly the history of pellagra in Egypt, and his recognition of the disease there first in 1893. He had always suspected that pellagra existed in the United States, and now that its existence was verified, urged further investigation, especially outside of asylums, to learn its numbers and extent. Much stress was laid on the relation of corn to pellagra and the opinion expressed that diseased maize is a potent etiological factor in this disease. With regard to Sambon's suggestion that pellagra may be an insect-borne protozoal disease, and that corn may bear the same relation to pellagra as the swamp does to malaria, he said he deemed it more correct to say that corn took the rôle of the mosquito rather than the swamp. He cautioned against errors of diagnosis of pellagra among the insane. He also referred to the objectionable term pseudo-pellagra, and deprecated the revival of the ancient discussion regarding its identity as compared with true pellagra, expressing at the same time the opinion that pellagra is rarely seen among people who do not eat maize. With regard to medical treatment, he recommended a nutritious diet, arsenic, suspension of maize, and elimination of intestinal parasites by appropriate treatment. As for preventive measures, he laid great stress on the prohibition of damaged maize, and directed attention to the importance of *Penicillium glaucum* in the spoiling of maize.

Asst. Surg. Gen. J. W. Kerr, Public Health and Marine-Hospital Service, as the representative of the Surgeon-General of said Service, read a paper on "Pellagra: A National Public-Health Problem." He outlined the history of pellagra in the United States, directed attention to its great and increasing importance, gave a sketch of what the National Government had done in regard to the disease, and announced that the Surgeon-General had, with the approval of the Secretary of the Treasury, appointed a commission to make more

extensive investigations of the disease, the members of the commission being as follows: Passed Asst. Surg. John F. Anderson, Director Hygienic Laboratory, chairman; Dr. Reid Hunt, chief Division of Pharmacology, Hygienic Laboratory; Surg. M. J. Rosenau; Passed Asst. Surg. C. H. Lavinder, secretary; Passed Asst. Surg. John D. Long; Dr. William A. White, Superintendent Government Hospital for the Insane, Washington, D. C.; and Dr. Nicolas Achucarro, Government Hospital for the Insane, Washington, D. C.

"Economic Factors of the Pellagra Problem in South Carolina," by E. J. Watson, commissioner of the department of agriculture, commerce, and industries, Columbia. This paper discussed with much interest the corn crops of South Carolina and the origin of all corn imported into the State, pointed out the prevalence and danger of damaged grain, and urged the need of federal inspection laws.

"Notes on the Hematology of Pellagra," by Passed Asst. Surg. C. H. Lavinder. Reviewed blood counts, hemaglobin estimation, differential leucocyte counts, and the bacteriology of the blood; and concluded that there was an usual mild, secondary anæmia, with a possible relative large mononuclear increase, but pointed out many discrepancies in differential leucocyte counts; the blood both by cultural methods and by animal experimentation he found uniformly sterile and noninfective; was unable to isolate Tizzoni's *Streptobacillus pellagrae*.

"Pellagra: Its Recognition in Illinois and the Means Taken to Control It," by George A. Zeller, M. D., superintendent State Hospital, Peoria, Ill.; and "Aspects of the Pellagra Situation in Illinois," by J. F. Siler, M. D., and H. J. Nichols, M. D., captains, Medical Corps, United States Army. These three valuable papers formed a symposium on the pellagra situation in Illinois and were heard with marked interest. Doctor Zeller reviewed the history of pellagra in the institution of which he is superintendent, and told the story of its final recognition. He reported some 130 cases in the institution and gave many details concerning them. His paper was characterized throughout by a frankness which evoked much commendation. Captain Siler, in his paper, gave a detailed clinical study of some 100 cases observed in the State Hospital at Peoria, Captain Nichols reviewed the laboratory studies and pathology made on these cases, and directed attention to the presence of amœbas and other protozoa in the stools. Amœbiasis was frequently observed clinically and pathologically, and some predisposing etiological import was attached to this frequency as rendering the intestine less resistant to the invasion of the body by toxic material through this channel. Amœbas were also found in the water supply of the institution, but only in tap water, the micro-organisms apparently developing in a storage tank or in the local system of the institution. He seemed to regard corn as an etiological factor not lightly to be discarded, but thought the local intestinal lesions of great importance with regard to the absorption of the toxins. These papers provoked much discussion and other observers confirmed the frequent presence of protozoa in the stools of pellagrins, amœbas and flagellates especially.

"Some Differential Points in the Skin Lesions of Pellagra," by Isadore Dyer, dean of the medical department, Tulane University, New Orleans, La. Discussed the details of the skin lesions and differential diagnosis. Recommended quinine in treatment.

"Pathology of Pellagra," by H. F. Harris, M. D., secretary state board of health, Atlanta, Ga. Directed attention to the fact that the most important pathological work is that done on early cases before the development of secondary changes, and that such material is scanty unless death occurs because of complications. He questioned the existence of a real acute pellagra with early death. He thought that the pathology of the disease should be carefully worked over by modern methods. The essential lesions of the disease he regarded as those of the central nervous system, and thought such changes occurred even in early cases. He reviewed the literature and gave a brief account of his own work, with especial attention to the changes in the Betz cells and the cells of Purkinje as well as the cells of the spinal cord and the degeneration of certain tracts.

"Pellagra in Yucatan," by Geo. F. Gaumer, M. D., Izamal, Yucatan, Mexico. Discussed the clinical features of the disease in Mexico.

"Pellagra in Jamaica," by D. J. Williams, medical superintendent, The Asylum, Kingston, Jamaica, West Indies. A brief account of pellagra as seen in the asylum, with an expression of doubt as to the etiological relation of corn.

"Pellagra in Barbados," by C. J. Manning, M. R. C. S., England, medical superintendent, lunatic asylum, Barbados, West Indies. Discussed a clinical entity usually called pellagra, but which he did not think corresponded to this disease, hence he called it *Psilosis pigmentosa*. The symptoms presented showed some similarity to pellagra, but many cases suffered from extensive gangrene. He was persuaded that the disease was caused by an infection of the skin by some fungus, and had had far less of it since sterilizing all clothing, bedding, etc.

"Pellagrous Insanity Among the Arabs in Egypt," by Dr. A. Marie, Paris, France. He discussed the prevalence and certain characteristics of pellagra among the Arabs, and brought out the clinical and pathological analogy between pellagra and general paresis.

"Pellagra in Egypt," by Dr. John Warnock, medical director, Government Hospital for the Insane, Abbassia, Cairo, Egypt. He thought the disease quite prevalent in the country districts, but rare in the towns, and found it common among children. Maize was not used in the asylum, yet pellagra patients continued to develop pellagra rashes. Intestinal helminthiasis and favus of the scalp were common in all cases. Doctor Warnock gave admission statistics for the last several years.

"The Surgical, Gynecological, and Obstetric Aspects of Pellagra," by Dr. E. B. Saunders, State Hospital, Columbia, S. C. A very thoughtful review of this aspect of the pellagra question, which laid especial stress on the surgical side of the disease and the dangers of submitting patients to operation by reason of faulty diagnosis. Special attention in this regard was directed to the pelvic organs.

"Pellagra; Its Relation to Insanity and Certain Nervous Diseases," by Dr. J. W. Mobley, State Sanatorium, Milledgeville, Ga. A brief but interesting talk on the clinical side of the subject as seen at his sanatorium. The discussion of this paper brought up one question which seemed of great interest to all, namely: Are the skin lesions in pellagra essential for diagnosis? Doctor Babcock, in discussing this point, stated that students at the London Tropical School of Medicine were taught to make the diagnosis without the appearance of skin

lesions, but that he felt the need of further experience before being sure of his ground.

"Complement Fixation in Pellagra; Further Observations," by Dr. C. C. Bass, New Orleans, La. Used lecithin as antigen, and out of 12 cases obtained positive reaction in 8. Drew no conclusions.

"The Wassermann Reaction (Noguchi Modification) in Pellagra" by Dr. Howard Fox, Vanderbilt Clinic, New York City. Made 30 tests. Used as antigen extract syphilitic liver and a composite antigen made of extract of syphilitic liver and normal heart and kidney. Obtained three or four weak reactions, but not one strong positive reaction. Conclusions: Pellagra seldom shows the reaction, and when seen it is weak; value of the Wassermann test not affected by the findings in pellagra.

In the discussion Doctor Bass brought out the fact that certain nervous pathological findings in pellagra led to the probable conclusion of an increased quantity of lecithin in the blood, and possibly for this reason, using lecithin as antigen, he obtained many more positive reactions than did Doctor Fox, who used another antigen which contained very little lecithin.

"Transfusion of Blood in Pellagra," by Drs. H. P. Cole and G. J. Winthrop, Mobile, Ala. Reported a series of 9 cases with 6 successful operations, and in the 3 failures there were special reasons against a probable hopeful outcome. In successful cases the improvement was prompt and marked. In a few of the cases the donor was a recovered pellagrin, but in most of them the blood was taken from a healthy individual who had never had pellagra. No conclusion could be drawn as to the antitoxic power of the blood of a recovered pellagrin. The treatment in certain cases is a valuable surgical procedure.

"Report of Pellagra in Nashville, Tenn.," by Dr. J. M. King, Nashville, Tenn. Recounted the experience with the disease in Nashville, and urged the probability of its being communicable. It was pointed out in the discussion that this would seem an unfair argument from a specific instance to a rather serious general conclusion opposed to the opinions and experience of all other observers.

"The Question of the Etiology of Pellagra," by Dr. J. H. Taylor, Columbia, S. C. A lengthy review of the literature with a plea for some protozoal parasite as the most probable causative agent, the whole paper being largely an argument by analogy. Provoked a great deal of discussion which showed a decided lack of unanimity of opinion on the subject of etiology.

"Personal Experience with Damaged Corn," by Dr. J. F. Brown, Fairview, S. C., and Mr. J. Swinton Whaley, Edisto Island, S. C. Detailed a series of convincing experiences as to the toxic effects on animals of damaged corn.

"Facts and Theories of Pellagra," by Dr. H. E. McConnell, Chester, S. C. Clinical experiences with pellagra. Advised in treatment, hydrogen peroxide internally and as a mouth wash.

"Symptomatology of pellagra" by Dr. J. J. Watson, Columbia, S. C. An interesting account of the general symptomatology.

"Amœba in Stools in Pellagra," by Dr. Wm. Allen, Charlotte, N. C. Pellagra is often complicated by amœbiasis and many varieties of amœba are found in the stools of pellagrins. The disease may be mistaken for amœbiasis and vice versa, and in doubtful cases amœbiasis must be excluded.

"Personal Observations on Pellagra," by Dr. T. W. L. Bailey, Clinton, S. C. Short clinical account of the disease as observed by the writer in a few cases. In the discussion, Dr. Bass stated that pellagra was a big subject, and that there was room in this field for any number of workers, and he hoped that if anyone had any suggestions to offer as to special points of study, all might have the benefit thereof. For his part he advised the detailed study of such intestinal bacteria as will grow well on corn media.

"Further Observations on Pellagra with Points on Prognosis," by Drs. J. H. Randolph and R. N. Greene, Hospital for Insane, Chatahoochee, Fla. A complete account of the cases seen by them, with general remarks on symptomatology, etiology, etc.

"Report of Twelve Cases of Pellagra," by Dr. J. M. Buchanan, State Hospital, Meridian, Miss. Case reports with a full account of a very interesting case twice transfused by Crile's method without success.

"Report of a Case of Pellagra Universalis," by Dr. J. Roddey Miller, Rock Hill, S. C. Reported one case in a carpenter in which the erythema was universal.

"Is Pellagra Contagious or Hereditary?" by Dr. H. H. Griffin, State Hospital, Columbia, S. C. Warned American students of pellagra, that by reason of their brief experience they should beware of being too dogmatic. From an extensive review of the literature and his own experience, could see no reason for regarding pellagra as being contagious. He considered pellagra as hereditary only in the form of a predisposition or inherited tendency. Made the query as to whether the observed increase in insanity among negroes may not be explained as due to pellagra.

"A Case of Labor in a Pellagrin, with Subsequent History of Mother and Child," by Dr. Crown Torrence, Union, S. C. A case history. Woman passed safely through labor, but had a severe postpartum hemorrhage. A healthy child was delivered.

"Diseases of the Eye in Pellagra," by Dr. A. B. Clarke, Plantersville, S. C. "Eye Symptoms of Pellagra," by Dr. E. M. Whaley, Columbia, S. C. These two papers brought out the frequency of eye symptoms in pellagra, with nothing especially characteristic. Doctor Whaley, however, noted the common occurrence of certain associated appearances, viz, a peculiar retina which vaguely appears thickened, with a yellowish reflex similar to that of senility, dilatation of veins, with arteriosclerotic changes.

The following papers were read by title:

"Results of Stomach Analysis in Pellagra," by Dr. W. O. Nosbet, Charlotte, N. C.

"Clinical Observations of Four Cases of Pellagra," by Dr. Rea Parker, State Hospital, Williamsburg, Va.

"Report of a Sporadic Case of Pellagra," by Dr. John Lunney, Darlington, S. C.

"Report of Six Cases of Pellagra," by Dr. Theodore Maddox, Union, S. C.

"Pellagra in Children," by Dr. M. B. Young, Rock Hill, S. C.

"Infants of Pellagrous Parents," by Dr. D. S. Pope, State Hospital, Columbia, S. C.

The scientific session closed with the presentation of a number of marked cases of this disease, and also a lantern-slide demonstration of many other interesting features.

BUSINESS SESSIONS.

With regard to the business sessions, committees were appointed as follows: Permanent organization, resolutions, statistics, publications.

The committee on publications reported their intention to publish as soon as possible a full and accurate account of the session, with all scientific papers.

The committee on statistics reported their intention of securing as full and accurate data of the disease in the United States as possible, and with this end Dr. J. W. Kerr, United States Public Health and Marine-Hospital Service, Washington, D. C., chairman, wanted all present to cooperate with him in this matter.

The committee on resolutions offered for adoption a report which recommended a permanent organization of the body into a national society; acknowledged the great work which Prof. Cesare Lombroso had done on the pellagra problem, and recommended that proper resolutions be passed with regard to his recent death; expressed their belief in the harmlessness of good corn and the danger from the use of spoiled corn as an article of food; expressed thanks to Dr. J. W. Babcock, superintendent of the state hospital for the insane, Columbia, S. C., and Dr. C. F. Williams, secretary of the South Carolina state board of health, for their enthusiasm and energy in initiating and carrying to a successful conclusion the present meeting.

The committee on permanent organization made a complete report, and submitted a constitution for a permanent body, which after some discussion was adopted. In its broad features the constitution recognized pellagra as a national scourge. The organization was named the "National Association for the Study of Pellagra." Provision was made for proper officers and for annual meetings at places to be agreed upon. The officers elected were: President, Dr. J. W. Babcock; first vice-president, Dr. W. A. White; second vice-president, Dr. C. F. Williams; secretary-treasurer, Dr. Geo. A. Zeller.

Upon Doctor Zeller's invitation it was decided to hold the next meeting at Peoria, Ill., in June, 1910.

PUBLIC HEALTH REPORTS.

UNITED STATES.

[Reports to the Surgeon-General, Public Health and Marine-Hospital Service.]

PELLAGRA.

JACKSON, LA.

Passed Assistant Surgeon Lavinder reports, October 26:

In accordance with bureau orders of October 9, directing me to proceed to Jackson, La., for the purpose of investigating certain cases of pellagra in the state insane asylum at that place, I arrived at Jackson on the 16th.

I immediately communicated with Dr. Clarence Pierson, the superintendent, and remained until I had completed my investigation. I also had a conference with the superintendent and a representative of the state board of health.

This institution is the larger of two state institutions of its kind. It is located in a very small town in a salubrious section of the State. It cares for about 1,500 insane. The institution is an old one. The place is apparently well managed and the patients are well cared for.

Ten positive cases of pellagra and 5 cases suspicious, but requiring further observation, were found. The general type of the disease was rather mild in many of its manifestations, but the diagnosis, in my opinion, was quite clear.

Nothing of a local nature to account for the appearance of the disease in the institution could be found nor could any suggestion be advanced in the way of prophylaxis other than a careful inspection of all corn products or the discontinuance of the use of this cereal as a foodstuff.

At the Charity Hospital in New Orleans I saw 2 well-marked cases of pellagra and 1 suspect.

Reports of plague-prevention work at San Francisco, Oakland, and Point Richmond, and in Alameda, Contra Costa, Merced, San Benito, San Joaquin, Santa Clara, and Solano counties, Cal.

Surgeon Blue reports:

SAN FRANCISCO, CAL.

Last case of human plague: Sickened, January 30, 1908.

Last case of rodent plague: Trapped, October 23, 1908.

Week ended October 23.

Dead inspected.....	104
Plague.....	0
Premises inspected.....	1,604
Houses disinfected.....	38
Nuisances abated.....	188

Rats found dead.....	28
Rats trapped.....	1,920
Total rats taken.....	<u>1,948</u>
Rats identified:	
Mus norvegicus.....	1,489
Mus rattus.....	53
Mus musculus.....	358
Mus alexandrinus.....	20
Total.....	<u>1,920</u>
Rats identified as to sex:	
Male.....	621
Female.....	874
Total.....	<u>1,49</u>
Rats examined bacteriologically.....	1,245
Plague rats.....	0
Poisons placed.....	14,645
Total number of rats found infected to date.....	398

OAKLAND, CAL.

Last case of human plague: Sickened, July 17, 1908.

Last case of rodent plague: Trapped, December 1, 1908.

Week ended October 23.

Dead inspected.....	31
Plague.....	0
Rats found dead.....	17
Rats trapped.....	<u>570</u>
Rats identified:	
Mus norvegicus.....	552
Mus rattus.....	6
Mus musculus.....	28
Mus alexandrinus.....	1
Total.....	<u>587</u>
Rats examined bacteriologically.....	542
Plague rats.....	0

Special telegraphic report dated November 5.

Frank Belfils, aged 22 years, sickened at Oakland, Cal., October 26. Clinically plague. Probably infected by ground squirrels at Devlin Ranch, Contra Costa County. He is isolated in Alameda County Infirmary. All precautionary measures have been taken. (Diagnosis was confirmed bacteriologically November 9.)

POINT RICHMOND, CAL.

Week ended October 23.

Dead inspected.....	2
Plague.....	0

ALAMEDA COUNTY, CAL. (EXCLUSIVE OF OAKLAND).

Last case of human plague: Sickened 2 miles southwest of Sunol, September 24, 1909.

Last case of rodent plague: Found October 8, 1909.

Week ended October 9.

Dead inspected.....	67
Plague.....	0
Necropsies held.....	2
Ranches inspected.....	80
Ground squirrels shot.....	696
Ground squirrels examined bacteriologically.....	675
Ground squirrels found infected with <i>B. pestis</i>	5
Total number of ground squirrels found infected to date.....	45

Plague-infected ground squirrels obtained from the following places:

	<i>October 2, 1909.</i>	
Curdy's ranch, Sunol.....		1
	<i>October 4, 1909.</i>	
Sherman's ranch, Altamont.....		1
	<i>October 5, 1909.</i>	
F. P. Mendoza ranch, Sunol.....		1
	<i>October 6, 1909.</i>	
Overacher ranch, Sunol.....		1
	<i>October 8, 1909.</i>	
View ranch, Sunol.....		1

CONTRA COSTA COUNTY, CAL. (EXCLUSIVE OF POINT RICHMOND).

Last case of human plague: Sickened, July 21, 1908.

Last case of rodent plague: Found, September 27, 1909.

Week ended October 9.

Dead inspected.....		2
Plague.....		0
Ranches inspected.....		27
Ground squirrels shot.....		324
Ground squirrels examined bacteriologically.....		305
Ground squirrels found infected with <i>B. pestis</i>		2
Total number of ground squirrels found infected to date.....		240

Plague-infected ground squirrels obtained from the following places:

	<i>September 21, 1909.</i>	
Sullivan ranch.....		1
	<i>September 27, 1909.</i>	
Cope ranch.....		1

MERCED COUNTY, CAL.

No record of human or rodent plague in Merced County.

Week ended October 16.

Ranches inspected.....		71
Ground squirrels shot.....		462
Ground squirrels examined bacteriologically.....		460
Plague squirrels.....		0

SAN BENITO COUNTY, CAL.

Last case of rodent plague: Found October 15, 1909.

Week ended October 16.

Ranches inspected.....		9
Ground squirrels shot.....		140
Ground squirrels examined bacteriologically.....		136
Ground squirrels found infected with <i>B. pestis</i>		1

Plague-infected ground squirrel obtained from the following place:

	<i>October 15, 1909.</i>	
Best ranch (Hollister).....		1

SANTA CLARA COUNTY, CAL.

No record of human or rodent plague in Santa Clara County.

Week ended October 16.

Ranches inspected.....	38
Ground squirrels shot.....	361
Ground squirrels examined bacteriologically.....	358
Plague squirrels.....	0

SAN JOAQUIN COUNTY, CAL.

No record of human or rodent plague in San Joaquin County.

Week ended October 9.

Ranches inspected.....	28
Ground squirrels shot.....	177
Ground squirrels examined bacteriologically.....	175
Plague squirrels.....	0

Week ended October 16.

Ranches inspected.....	25
Ground squirrels shot.....	250
Ground squirrels examined bacteriologically.....	238
Plague squirrels.....	0

SOLANO COUNTY, CAL.

No record of human or rodent plague in Solano County.

Week ended October 16.

Ranches inspected.....	8
Ground squirrels shot.....	79
Ground squirrels examined bacteriologically.....	71
Plague squirrels.....	0

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND
CITIES OF THE UNITED STATES—UNTABULATED.

COLORADO—*Colorado Springs*.—Month of September, 1909. Estimated population, 32,000. Total number of deaths, 34, corresponding to an annual death rate of 12.75 per 1,000 of population, including tuberculosis 10. Cases: Scarlet fever 3, enteric fever 23.

Denver.—Month of September, 1909. Total number of deaths, 269, including enteric fever 12, scarlet fever 2, diphtheria 5, tuberculosis 57.

MICHIGAN.—Month of September, 1909. Population, 2,530,016. Total number of deaths, 3,095, corresponding to an annual death rate of 14.2 per 1,000 of population, including tuberculosis 171, enteric fever 87, diphtheria 28, scarlet fever 19, measles 5, whooping cough 23.

MISSOURI—*St. Louis*.—Month of August, 1909. Total number of deaths, 932, including measles 2, scarlet fever 8, diphtheria 5, whooping cough 3, enteric fever 10.

NEW JERSEY.—Month of October, 1909. Total number of deaths, 2,894, including enteric fever 37, measles 10, scarlet fever 11, whooping cough 20, diphtheria 47, tuberculosis 325.

NORTH DAKOTA.—Month of August, 1909. Total number of deaths, 177, including tuberculosis 2, smallpox 0, enteric fever 1, diphtheria 1, scarlet fever 1. Cases: Tuberculosis 10, smallpox 5, enteric fever 26, diphtheria 22, scarlet fever 30, measles 7, whooping cough 14.

OREGON.—Month of July, 1909. Total number of deaths, 385, including tuberculosis 38, enteric fever 7, diphtheria 3, scarlet fever 3, measles 3. Cases: Tuberculosis 7, enteric fever 38, diphtheria 19, scarlet fever 41, measles 111, smallpox 21. Month of August, 1909. Total number of deaths, 455, including tuberculosis 28, enteric fever 13, diphtheria 2, scarlet fever 1, measles 1. Cases: Tuberculosis 16, enteric fever 84, diphtheria 24, scarlet fever 38, measles 33, smallpox 15.

Portland.—Month of September, 1909. Population, 255,000. Total number of deaths, 178, including diphtheria 2, scarlet fever 1, enteric fever 4, tuberculosis 17. Cases: Diphtheria 18, measles 5, enteric fever 65, tuberculosis 19, scarlet fever 18, smallpox 9.

PENNSYLVANIA—Altoona.—Month of October, 1909. Total number of deaths, 49, including enteric fever 3, tuberculosis 2. Cases: Diphtheria 6, scarlet fever 2, enteric fever 17.

TENNESSEE—Davidson County.—For quarter ending September 30, 1909. Total number of deaths, 114, including enteric fever 4, whooping cough 1, diphtheria 2, pellagra 2, tuberculosis 14. Cases: Enteric fever 51, scarlet fever 25, whooping cough 6, tuberculosis 11, diphtheria 12.

UTAH.—Month of September, 1909. Estimated population, 346,873. Total number of deaths, 330, including scarlet fever 1, diphtheria 5, enteric fever 20, whooping cough 2, tuberculosis 9. Cases: Scarlet fever 63, smallpox 59, diphtheria 43, enteric fever 489, whooping cough 116, measles 5, tuberculosis 11.

WASHINGTON—Seattle.—Month of August, 1909. Total number of deaths, 214, including enteric fever 2, scarlet fever 4, diphtheria 5, tuberculosis 17. Cases: Smallpox 6, enteric fever 30, scarlet fever 25, diphtheria 45, measles 14, tuberculosis 6. Month of September, 1909. Deaths include enteric fever 5, scarlet fever 4, diphtheria 1. Cases: Enteric fever 142, scarlet fever 27, diphtheria 21, measles 9, tuberculosis 24.

Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, June 26 to November 12, 1909.

[For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile.....	Oct. 17-23.....	1		
Total for State.....		1		
California, general.....				
Berkeley.....	Aug. 1-31.....		2	
Hobart Mills.....	July 25-31.....	1		
Sacramento.....	Apr. 1-30.....	1		
San Francisco.....	June 6-12.....	1		
Truckee.....	June 6-July 3.....	2		
	Mar. 23.....	3		
Total for State.....		8	2	
Colorado:				
Adams County.....	Apr. 1-June 30.....	5		
Boulder County.....	Apr. 1-June 30.....	8		
Clear Creek County.....	Apr. 1-June 30.....	1		
Denver County—				
Denver.....	Apr. 1-June 30.....	10		
El Paso County.....	Apr. 1-June 30.....	3		
Fremont County.....	Apr. 1-June 30.....	13		
Grand County.....	Apr. 1-June 30.....	1		
Huerfano County.....	Apr. 1-June 30.....	24		
Larimer County.....	Apr. 1-June 30.....	4		
Las Animas County.....	Apr. 1-June 30.....	1		
Mesa County.....	Apr. 1-June 30.....	20		
Montrose County.....	Apr. 1-June 30.....	2		
Morgan County.....	Apr. 1-June 30.....	17		
Otero County.....	Apr. 1-June 30.....	1		
Pueblo County.....	Apr. 1-June 30.....	8		
Rio Grande County.....	Apr. 1-June 30.....	1		
San Miguel County.....	Apr. 1-June 30.....	4		
Weld County.....	Apr. 1-June 30.....	1		
Total for State.....		124		
Connecticut:				
Bridgeport.....	Oct. 2.....	1		
New Haven.....	May 1-31.....	1		
Total for State.....		2		
District of Columbia:				
Washington.....	Aug. 8-Oct. 23.....	9		
Total for District.....		9		
Georgia:				
Macon.....	June 14-Oct. 31.....	17		
Total for State.....		17		
Illinois:				
Alexander County—				
Cairo.....	May 1-June 30.....	25		
Bureau County.....	Aug. 1-31.....	1		
Champaign County.....	Apr. 1-May 31.....	25		
Christian County.....	Apr. 1-May 31.....	35		
Clay County.....	Apr. 1-30.....	1		
Clinton County.....	Apr. 1-June 30.....	7		
Cook County—				
Chicago.....	June 20-Oct. 30.....	9		
Dewitt County.....	May 1-31.....	7		
Edwards County.....	Apr. 1-May 31.....	3		
Effingham County.....	Apr. 1-30.....	2		
Fayette County.....	May 1-31.....	2		
Franklin County.....	Apr. 1-May 31.....	2		
Fulton County.....	Apr. 1-June 30.....			Present.
Gallatin County.....	Apr. 1-May 31.....	16		
Iroquois County.....	May 1-31.....	1		
Jackson County.....	Apr. 1-May 31.....	14		
Murphysboro.....	Apr. 1-May 31.....	40		
Knox County.....	Apr. 1-30.....	8		
Lake County.....	Apr. 1-July 31.....	14		
Lasalle County.....	Apr. 1-30.....	3		
McDonough County.....	Apr. 1-30.....	25		
McHenry County—				
Marengo.....	May 1-June 30.....	97		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Illinois—Continued.				
Macoupin County.....	Apr. 1-May 31.....	6		
McLean County.....	June 1-30.....	1		
Madison County.....	May 1-June 30.....	2		
Marion County.....	Apr. 1-June 30.....	14		
Menard County.....	Aug. 1-31.....	5		
Massac County—				
Metropolis.....	Apr. 1-May 31.....	29		
Montgomery County.....	May 1-June 30.....	2		
Peoria County.....	Apr. 1-June 30.....	13		
Peoria.....	June 1-Sept. 31.....	54		
Perry County.....	Apr. 1-Aug. 31.....	18		
Pulaski County.....	May 1-31.....	5		
Rock Island County—				
Moline.....	June 1-July 31.....	2		
St. Clair County—				
East St. Louis.....	May 1-June 30.....	11		
Saline County.....	May 1-31.....	30		
Sangamon County.....	Apr. 1-30.....	1		
Springfield.....	May 29-July 9.....	3		
Schuyler County.....	May 1-31.....	1		
Shelby County.....	Apr. 1-July 31.....	3		
Stephenson County.....	May 1-31.....	4		
Tazewell County.....	May 1-31.....	5		
Pekin.....	Apr. 1-Aug. 31.....	78		
Union County.....	Apr. 1-May 31.....	5		
Vermilion County.....	Apr. 1-May 31.....	2		
Danville.....	June 14-Sept. 25.....	13		
Warren County.....	June 1-July 31.....	3		
Will County—				
Joliet.....	July 1-31.....	1		
Williamson County.....	Apr. 1-Aug. 31.....	17		
Winnebago County.....	June 1-30.....	1		
Woodford County.....	Apr. 1-July 31.....	25		
Total for State.....		691		
Indiana:				
Allen County.....	May 1-Aug. 31.....	17		
Fort Wayne.....	June 6-Oct. 2.....	103		
Carrill County.....	June 1-30.....	1		
Clay County.....	June 1-30.....	4		
Dearborn County.....	May 1-31.....	4		
Dekalb County.....	June 1-30.....	1		
Delaware County.....	May 1-31.....	1		
Muncie.....	June 20-Oct. 31.....	13		
Fayette County.....	June 1-30.....	1		
Fountain County.....	July 1-31.....	1	1	
Gibson County.....	May 1-31.....	5		
Grant County.....	May 1-July 31.....	4		
Greene County.....	June 1-July 31.....	4	1	
Marion County—				
Indianapolis.....	June 14-Oct. 24.....	3		
Montgomery County.....	May 1-June 30.....	9		
Farke County.....	May 1-31.....	1		
Fulaski County.....	May 1-31.....	2		
St. Joseph County.....	June 1-30.....	4		
South Bend.....	June 13-Aug. 14.....	5		
Tipton County.....	July 1-31.....	1		
Vanderburg County.....	May 1-June 30.....	26		
Vermilion County.....	May 1-July 31.....	43		
Vigo County.....	June 1-30.....	4		
Wayne County.....	May 1-July 31.....	15	1	
White County.....	May 1-31.....	2		
Total for State.....		274	3	
Iowa:				
Cedar Rapids.....	July 1-Aug. 31.....	2		
Keokuk.....	May 1-31.....	3		
Ottumwa.....	June 1-30.....	1		
Total for State.....		6		
Kansas:				
Allen County.....	May 1-31.....	5		
Aitchison County.....	June 1-July 31.....	8		
Brown County.....	June 1-30.....	1		
Chautauqua County.....	May 1-31.....	3		
Cherokee County.....	May 1-31.....	1		
Coffey County.....	May 1-31.....	1		
Comanche County.....	June 1-30.....	3		
Cowley County.....	May 1-31.....	14		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Crawford County.....	May 1-31.....	20		
Pittsburg.....	May 1-June 30.....	4		
Decatur County.....	June 1-30.....	12	1	
Dickinson County.....	May 1-July 31.....	3		
Doniphan County.....	May 1-Aug. 31.....	29		
Douglas County.....	May 1-31.....	1		
Elk County.....	May 1-31.....	1		
Ellsworth County.....	June 1-30.....	1		
Franklin County.....	May 1-31.....	5		
Geary County.....	May 1-July 31.....	5		
Graham County.....	June 1-30.....	6		
Greenwood County.....	May 1-31.....	3		
Jackson County.....	May 1-June 30.....	24		
Jefferson County.....	May 1-31.....	2		
Jewell County.....	May 1-31.....	6		
Kearny County.....	May 1-31.....	1		
Kingman County.....	July 1-31.....	2		
Labette County—				
Parsons.....	May 1-Sept. 30.....	11		
Lincoln County.....	July 1-31.....	4		
Lyon County.....	May 1-July 31.....	28		
McPherson County.....	July 1-31.....	1		
Marion County.....	July 1-31.....	1		
Marshall County.....	May 1-Aug. 31.....	230		
Montgomery County.....	May 1-July 31.....	10		
Coffeyville.....	July 1-31.....	1		
Nemaha County.....	June 1-July 31.....	11		
Osage County.....	May 1-June 30.....	32		
Osborne County.....	May 1-June 30.....	11		
Ottawa County.....	May 1-31.....	3		
Phillips County.....	May 1-31.....	1		
Pottawatomie County.....	May 1-July 31.....	15		
Pratt County.....	May 1-July 31.....	6		
Rawlins County.....	May 1-31.....	13		
Republic County.....	June 1-30.....	5		
Riley County.....	May 1-June 30.....	8		
Rooks County.....	July 1-31.....	1		
Rush County.....	June 1-30.....	2		
Russell County.....	June 1-30.....	1		
Saline County.....	May 1-31.....	2		
Scott County.....	Aug. 1-Sept. 30.....	2		
Sedgwick County.....	May 1-31.....	11		
Wichita.....	July 11-Aug. 7.....	5		
Shawnee County.....	May 1-Aug. 31.....	13		
Topeka.....	May 1-Sept. 30.....	47		
Smith County.....	May 1-31.....	11		
Sumner County.....	May 1-31.....	3		
Thomas County.....	May 1-31.....	1		
Wabaunsee County.....	May 1-31.....	6		
Wyandotte County.....	May 1-31.....	4		
Kansas City.....	June 13-July 17.....	10		
Total for State.....		671	1	
Kentucky:				
Covington.....	June 13-July 3.....	5		
Lexington.....	June 20-Aug. 21.....	16		
Newport.....	June 14-July 25.....	4		
Paducah.....	June 13-26.....	3		
Total for State.....		28		
Louisiana:				
New Orleans.....	June 13-Oct. 30.....	14		
Total for State.....		14		
Maryland, general				
	Mar. 1-Apr. 30.....	9		
Total for State.....		9		
Massachusetts:				
Boston.....	Sept. 12-Oct. 23.....	3	1	
Lawrence.....	June 27-July 3.....	1		
Total for State.....		4	1	
Michigan:				
Bay County—				
Bay City.....	June 1-Aug. 31.....	2		
Berrien County.....	July 1-Aug. 31.....	9		
Branch County.....	July 1-Aug. 31.....	5		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Calhoun County.....	June 1-30.....	1		
Cass County.....	July 1-Aug. 31.....	8	1	
Cheboygan County.....	July 1-31.....	2		
Chippewa County.....	May 1-31.....	1		
Clinton County.....	Aug. 1-31.....	1		
Delta County.....	June 1-30.....	1		
Eaton County.....	May 1-Aug. 31.....	46		
Emmet County.....	June 1-July 31.....	2		
Genesee County.....	July 1-31.....	1		
Gogebic County.....	Aug. 1-31.....	1		
Houghton County.....	May 1-Aug. 31.....	7		
Huron County.....	June 1-30.....	1		
Ingham County.....	May 1-31.....	1		
Jackson County.....	May 1-31.....	1		
Kalamazoo County— Kalamazoo.....	July 4-24.....	2		
Kent County— Grand Rapids.....	June 6-26.....	2		
Lapeer County.....	June 1-30.....	1		
Livingston County.....	Aug. 1-31.....	16		
Marquette County.....	May 1-July 31.....	8		
Menominee County.....	July 1-31.....	4		
Muskegon County.....	May 1-Aug. 31.....	16		
Newaygo County.....	June 1-30.....	1		
Oceana County.....	May 1-31.....	1		
Ottawa County.....	May 1-July 31.....	8		
Saginaw County.....	May 1-July 31.....	20		
Saginaw.....	July 25-Oct. 16.....	4		
St. Clair County.....	May 1-June 30.....	4		
Schoolcraft County.....	July 1-31.....	4		
Manistiquette.....	June 1-Aug. 31.....	41		
Tuscola County.....	May 1-31.....	4		
Wayne County— Detroit.....	May 1-July 31.....	2		
Total for State.....		228	1	
Minnesota, general.				
Becker County.....	June 15-21.....	5		
Bigstone County.....	June 8-14.....	1		
Carver County.....	July 6-Aug. 16.....	6		
Clay County.....	July 28-Aug. 2.....	1		
Cottonwood County.....	July 1-31.....	1		
Crawford County.....	Aug. 10-16.....	1		
Faribault County.....	June 7-14.....	2		
Hennepin County— Minneapolis.....	May 1-June 30.....	39		
Hubbard County.....	May 25-31.....	1		
Itasca County.....	May 25-June 14.....	7		
Lesueur County.....	June 1-7.....	1		
McLeod County.....	May 25-July 19.....	2		
Marshall County.....	June 8-July 5.....	6		
Meeker County.....	May 25-31.....	5		
Morrison County.....	June 21-Aug. 16.....	2		
Nobles County.....	May 25-June 21.....	2		
Olmsted County.....	June 8-14.....	2		
Pine County.....	May 25-31.....	1		
Ramsey County— St. Paul.....	Apr. 1-May 31.....	10		
Redwood County.....	June 1-7.....	1		
Rock County.....	June 1-7.....	1		
St. Louis County.....	May 25-June 21.....	3		
Duluth.....	June 10-Sept. 24.....	21		
Sibley County.....	June 22-July 19.....	4		
Stearns County— St. Cloud.....	July 13-19.....	1		
Steele County.....	May 25-June 21.....	3		
Swift County.....	July 20-26.....	1		
Wabasha County.....	May 25-31.....	11		
Wadena County.....	May 25-July 19.....	11		
Waseca County.....	May 25-31.....	8		
Wright County.....	June 15-Aug. 16.....	10		
Total for State.....		161	3	
Missouri:				
Kansas City.....	June 13-26.....	2		
St. Joseph.....	May 30-July 24.....	19		
St. Louis.....	June 20-Oct. 2.....	9		
Total for State.....		30		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Montana:				
Carbon County.....	June 1-July 31.....	6		
Cascade County—				
Great Falls.....	June 1-30.....	1		
Chouteau County.....	June 1-30.....	1		
Custer County.....	June 1-30.....	1		
Dawson County.....	May 1-Sept. 30.....	7		
Deerlodge County.....	May 1-31.....	1		
Fergus County.....	June 1-30.....	1		
Flathead County.....	May 1-31.....	4		
Gallatin County.....	May 1-31.....	4		
Jefferson County.....	May 1-31.....	2		
Lewis and Clark County—				
Helena.....	May 1-31.....	1		
Missoula County—				
Missoula.....	June 1-Aug. 31.....	6		
Park County.....	May 1-June 30.....	21		
Livingston.....	May 1-Aug. 31.....	14		
Sanders County.....	May 1-31.....	1		
Silverbow County.....	June 1-Sept. 30.....	25		
Butte.....	June 11-Oct. 14.....	49		
Teton County.....	May 1-31.....	1		
Valley County.....	May 1-31.....	1		
Yellowstone County.....	May 1-July 31.....	7		
Total for State.....		154		
Nebraska:				
Lincoln.....	May 1-July 31.....	34		
Total for State.....		34		
New Jersey:				
Newark.....	Sept. 19-25.....	1		
Total for State.....		1		
New York, general:				
Buffalo.....	May 1-Aug. 31.....	462		
	Oct. 3-30.....	3		
Total for State.....		465		
North Carolina:				
Beaufort County.....	June 1-30.....	1		
Bladen County.....	Apr. 1-30.....	5		
Buncombe County.....	Apr. 1-30.....	1		
Caldwell County.....	Apr. 1-June 30.....	19		
Camden County.....	Apr. 1-June 30.....	70		
Carteret County.....	Apr. 1-30.....	1		
Craven County.....	Apr. 1-Aug. 31.....	10		
Cumberland County.....	May 1-Aug. 31.....	2		
Davie County.....	Aug. 1-31.....	1		
Duplin County.....	Apr. 1-Aug. 31.....	35		
Harnett County.....	June 1-July 31.....	7		
Johnston County.....	Apr. 1-July 31.....	3		
Jones County.....	Aug. 1-31.....	8		
Lee County.....	Apr. 1-30.....	6		
Lenoir County.....	July 1-Aug. 31.....	6		
Madison County.....	May 1-June 30.....	7		
Mecklenburg County.....	May 1-31.....	2		
Charlotte.....	Sept. 26-Oct. 29.....	9		
Mitchell County.....	July 1-31.....	8		
Montgomery County.....	July 1-31.....	10		Apr. 1-30, present.
Nash County.....	June 1-30.....	1		
Onslow County.....	Apr. 1-30.....	2		
Pamlico County.....	May 1-31.....	4		
Pasquotank County.....	Apr. 1-May 31.....	15		
Pitt County.....	Apr. 1-June 30.....	17		
Robeson County.....	June 1-July 31.....	14		
Rowan County.....	May 1-July 31.....	17		
Sampson County.....	Apr. 1-June 30.....	51		In extreme northern part.
Transylvania County.....	May 1-31.....	5		
Wake County.....	Apr. 1-Aug. 31.....	3		
Watauga County.....	June 1-Aug. 31.....	38		
Wayne County.....	May 1-31.....	14		
Wilson County.....	Apr. 1-30.....	1		
Yancey County.....	Apr. 1-Aug. 31.....	10		
Total for State.....		403		
North Dakota:				
Bottineau County.....	May 1-July 31.....	2		
Cass County.....	July 1-31.....	2		
Emmons County.....	July 1-31.....	3		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	[Remarks.]
North Dakota—Continued.				
Grand Forks County.....	May 1-July 31.....	13		
Henry County.....	Aug. 1-31.....	5		
Lamoure County.....	May 1-June 30.....	3		
McHenry County.....	May 1-31.....	1		
Stutsman County.....	June 1-July 31.....	15		
Walsh County.....	June 1-30.....	2		
Ward County.....	May 1-July 31.....	11		
Total for State.....		57		
Ohio:				
Cincinnati.....	June 12-Oct. 9.....	5		
Columbus.....	Sept 12-18.....	1		
Dayton.....	July 18-Oct. 23.....	21	1	
Springfield.....	Oct. 10-30.....	15		
Toledo.....	July 25-Aug. 7.....	2		
Total for State.....		44	1	
Oklahoma:				
Coal County.....	Aug. 1-31.....	3		
Ellis County.....	Aug. 1-31.....	1		
Kay County.....	Aug. 1-31.....	5		
Kiowa County.....	Aug. 1-31.....	4		
Muskogee County.....	Aug. 1-31.....	1		
Oklahoma County— Oklahoma.....	Apr. 3-Aug. 21.....	51	1	
Washington County.....	Aug. 1-31.....	1		
Total for State.....		66	1	
Oregon:				
Cass County.....	July 1-31.....	8		
Clackamas County.....	May 1-June 30.....	3		
Coos County.....	June 1-30.....	1		
Lane County.....	July 1-31.....	1		
Linn County.....	July 1-31.....	2		
Marion County.....	May 1-Aug. 31.....	14		
Multnomah County.....	May 1-June 30.....	3		
Portland.....	Apr. 1-Sept. 30.....	48		
Tillamook County.....	July 1-31.....	1		
Umatilla County.....	June 1-30.....	2		
Union County.....	June 1-30.....	1		
Washington County.....	May 1-June 30.....	14		
Yamhill County.....	June 1-Aug. 31.....	4		
Total for State.....		102		
Pennsylvania:				
Philadelphia.....	July 10-24.....	4		
Total for State.....		4		
Tennessee:				
Knoxville.....	June 20-Aug. 21.....	7		
Total for State.....		7		
Texas:				
Anderson County.....	Aug. 1-31.....	5		
Archer County.....	June 1-30.....	1		
Baylor County.....	June 1-30.....	22		
Bee County.....	June 1-30.....	6		
Bexar County.....	June 1-July 31.....	1	1	
San Antonio.....	June 13-Oct. 2.....	14		
Bowie County.....	June 1-30.....	7		
Cameron County.....	June 1-30.....	1		
Cherokee County.....	June 1-30.....	1		
Childress County.....	June 1-30.....	4		
Concho County.....	Aug. 1-31.....	2		
Ellis County.....	May 1-June 30.....	2		
Galveston County.....	June 1-30.....	1		
Galveston.....	June 19-25.....	1		
Gonzales County.....	May 1-June 30.....	6	2	
Grayson County.....	June 1-30.....	9		
Harris County.....	June 1-30.....	12		
Houston.....	Mar. 28-June 19.....	17		
Harrison County.....	June 1-Aug. 31.....	17		
Hays County.....	July 1-31.....	8		
Henderson County.....	June 1-July 31.....	30		
Jefferson County.....	May 1-June 30.....	3		
Jones County.....	June 1-30.....	2		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas—Continued.				
Kinney County.....	June 1-30.....	1	1	
Lamar County.....	June 1-Aug. 31.....	27		
Matagorda County.....	May 1-Aug. 31.....	11		
McLennan County.....	June 1-30.....	19		
Milam County.....	June 1-30.....	5		
Runnels County.....	May 1-July 31.....	26		
San Saba County.....	Apr. 9-June 30.....	11		
Smith County.....	June 1-30.....	10		
Stephens County.....	June 1-30.....	33	1	
Tarrant County.....	May 1-June 30.....	19	3	
Fort Worth.....	June 1-July 31.....	5		
Travis County.....	May 1-June 30.....	19		
Upshur County.....	May 1-Aug. 31.....	52		
Van Zandt County.....	May 1-June 30.....	6		
Victoria County.....	Aug. 1-31.....	6		
Webb County.....	June 19.....	1		
Laredo.....	June 1-30.....	2		
Wharton County.....	June 1-30.....	5		
Wichita County.....	June 1-30.....	12	1	
Williamson County.....	June 1-Aug. 31.....			
Total for State.....		442	9	
Utah:				
Boxelder County.....	May 1-Sept. 30.....	5		
Cache County.....	June 1-July 31.....	4		
Carbon County.....	June 1-July 31.....	3		
Davis County.....	May 1-July 31.....	30		
Emery County.....	June 1-July 31.....	4		
Garfield County.....	May 1-Aug. 31.....	20		
Juab County.....	Aug. 1-31.....	9		
Salt Lake County.....	May 1-Aug. 31.....	61	1	
Salt Lake City.....	June 1-Sept. 30.....	108		
Sanpete County.....	May 1-Sept. 30.....	32		
Summit County.....	May 1-Aug. 31.....	78		
Tooele County.....	May 1-31.....	5		
Uintah County.....	May 1-Sept. 30.....	48		
Utah County.....	May 1-Sept. 30.....	42		
Wasatch County.....	Aug. 1-Sept. 30.....	30		
Weber County.....	May 1-Aug. 31.....	6		
Total for State.....		485	1	
Virginia:				
Lynchburg.....	June 20-26.....	1		
Total for State.....		1		
Washington:				
Seattle.....	July 1-Aug. 31.....	8		
Spokane.....	June 6-July 3.....	7		
Tacoma.....	May 14-June 27.....	6		
Total for State.....		21		
West Virginia:				
Wheeling.....	Oct. 17-23.....	1		
Total for State.....		1		
Wisconsin:				
Ashland County.....	Jan. 1-Mar. 31.....	8		
Barron County.....	Jan. 1-June 30.....	93		
Brown County.....	Apr. 1-June 30.....	18		
Buffalo County.....	Jan. 1-Mar. 31.....	5		
Burnett County.....	Jan. 1-Mar. 31.....	11		
Calumet County.....	Jan. 1-June 30.....	2		
Chippewa County.....	Jan. 1-June 30.....	97	1	
Clark County.....	Jan. 1-June 30.....	20		
Columbia County.....	Jan. 1-Mar. 31.....	1		
Dane County.....	Apr. 1-June 30.....	6		
Douglas County.....	Jan. 1-June 30.....	11		
Dunn County.....	Jan. 1-June 30.....	39	2	
Fond du Lac County.....	Jan. 1-June 30.....	3		
Jackson County.....	Jan. 1-Mar. 3.....	1		
Juneau County.....	Jan. 1-June 30.....	42		
La Crosse County.....	Apr. 1-June 30.....	10		
La Crosse.....	June 13-Oct. 9.....	3		
Manitowoc County.....	Jan. 1-June 30.....	41		
Marathon County.....	Jan. 1-June 30.....	2		
Milwaukee County.....	Apr. 1-June 30.....	24		
Milwaukee.....	June 2-Oct. 2.....	3		

Smallpox in the United States, etc.—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Wisconsin—Continued.				
Oconto County.....	Jan. 1-June 30....	25	1	
Oneida County.....	Apr. 1-June 30....	1		
Outagamie County—				
Appleton.....	June 20-July 31....	22		
Ozaukee County.....	Jan. 1-Mar. 31....	13		
Pepin County.....	Jan. 1-Mar. 31....	2		
Pierce County.....	Jan. 1-Mar. 31....	4		
Polk County.....	Jan. 1-June 30....	19		
St. Croix County.....	Jan. 1-June 30....	65		
Sheboygan County.....	Jan. 1-June 30....	46		
Taylor County.....	Jan. 1-Mar. 31....	5		
Trempealeau County.....	Jan. 1-Mar. 31....	3		
Vernon County.....	Jan. 1-Mar. 31....	51		
Walworth County.....	Apr. 1-June 30....	1		
Washburn County.....	Jan. 1-June 30....	14		
Waukesha County.....	Jan. 1-Mar. 31....	5		
Waupaca County.....	Jan. 1-June 30....	27		
Waushara County.....	Jan. 1-Mar. 31....	1		
Winnebago County.....	Jan. 1-June 30....	17		
Wood County.....	Apr. 1-June 30....	2		
Total for State.....		763	4	
Grand total for the United States.....		5,327	27	

Plague in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, August 2—November 12, 1909.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
Alameda County—				
Oakland.....	Oct. 26.....	1		
Sunol.....	Aug. 2-12.....	1	1	Case sickened July 27.
	Sept. 24.....	1		In vicinity of Sunol.

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

[For smallpox and plague, see special tables.]

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.....	Oct. 30	38,973	13		2				1						
Ann Arbor, Mich.....	Oct. 23	14,509	7											7	
Baltimore, Md.....	Oct. 30	508,957	194	19	30	21	4	5	2	20	1	6	2	7	2
Bath, Me.....	Oct. 23	10,477								1					
Do.....	do.	10,477			1					1		3			
Do.....	Oct. 30	10,477						1				2			
Beaver Falls, Pa.....	do.	13,000	1												
Bellingham, Wash.....	do.	40,000	5		2		2			1		1			
Biddeford, Me.....	do.	16,145	4												
Boston, Mass.....	do.	560,892	197	40	17	20	4	36	2	56	3	34		3	1
Braddock, Pa.....	Oct. 16	15,654	8			1		13	3	1		1			
Do.....	Oct. 23	15,654	7			1		7	1	1		5			
Do.....	Oct. 30	15,654	2			1	1	1		1					
Bridgeport, Conn.....	Oct. 23	70,996	33	2		2		3	1	1	1				
Brockton, Mass.....	Oct. 30	40,063	8	2		2				1	1				
Butte, Mont.....	Oct. 21	30,470	14		3			3		5					
Cambridge, Mass.....	Oct. 30	91,886	25	10	3	4		12		9		5		1	
Camden, N. J.....	do.	75,935	34			2		1		3	2				
Camden, S. C.....	do.	2,441										1			
Carbondale, Pa.....	do.	13,536	5									2			

* Estimated population, 1909, given by city health officer.

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

Cities.	Week-ended—	Popula- tion, United States census, 1900.	Total deaths from all causes.	Tuber- culosis.		Enteric fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Charlotte, N. C.	Oct. 29	18,091	6	1	3	1	1	1	2	1	5				
Chelsea, Mass.	Oct. 30	34,072	10	1											
Chicago, Ill.	do.	1,698,575	586	65	65	36	5	134	4	162	19	65	37	2	
Chicopee, Mass.	do.	19,167	10	2											
Clinton, Mass.	do.	13,667	7	1											
Cincinnati, Ohio.	do.	325,902	117	48	14	5	1	8		23	1	11		2	
Cleveland, Ohio.	Oct. 29	381,768	122	11	10	16	2	11	1	33	1	6		5	1
Coffeyville, Kans.	Oct. 30	4,953	4	2	2	4		1		3					
Columbus, Ga.	do.	17,614	44												
Columbus, Ohio.	do.	125,560	51	7	2	6	2	8		7		22		1	
Concord, N. H.	Oct. 23	19,632	9			2				3					
Do.	Oct. 30	19,632	11	1	1	2				10	1				
Danville, Ill.	do.	16,534	7	3	3			3		5					
Danville, Va.	do.	16,520	8		2		1	2		3					
Dayton, Ohio.	do.	85,333	35		2	1	2	2		3	1	1			
Denver, Colo.	Oct. 8	133,859	86		18	29	3	16	2	16	1	9	1	3	
Do.	Oct. 15	133,859	67		12	10	4	9	1	28		4			
Detroit, Mich.	Oct. 30	285,704	135					31	3	33	2				
Duluth, Minn.	do.	80,000	22				1	4		11	1				
Dunkirk, N. Y.	do.	11,616	4												
Erie, Pa.	Oct. 26	15,905	13	4	3	5	1	1						3	
El Paso, Tex.	Oct. 23	52,733	18	6	1	9	3	5						1	1
Do.	Oct. 31	52,733	22	2		4	2	10						1	
Evansville, Ind.	Oct. 30	59,007	22	4	3	4	2	28		7					
Everett, Mass.	Oct. 16	24,336	6	1		2		2						1	
Do.	Oct. 30	24,336	6	2		1		3		1		1			
Fall River, Mass.	do.	104,863	35	4		5	2	5		4	1				
Findlay, Ohio.	Oct. 23	17,613	2					1		12	1				
Do.	Oct. 30	17,613	3					1		7					
Galesburg, Ill.	Oct. 23	18,607	3					2							
Galveston, Tex.	Oct. 30	37,789	1	1	1	5		1		2					
Gloucester, Mass.	Oct. 23	26,121	2												
Do.	Oct. 30	26,121	4												
Grand Rapids, Mich.	do.	87,565	26	2	1	20		33		1					
Greenville, Tenn.	do.	11,860	10	3				17	1	3					
Greensboro, N. C.	do.	10,035	2			2		1		5					
Hartford, Conn.	Oct. 24	79,850	23	11	1			4		11					
Harrison, N. J.	Oct. 30	10,596	3	1	1			2		1					
Hattiesburg, Miss.	do.	4,175	6	4		12								25	
Haverhill, Mass.	do.	37,175	14	1	1	1	1	7		4					
Homestead, Pa.	Oct. 31	12,554	8			9		1							
Hyde Park, Mass.	Oct. 30	13,244	6		3					3					
Indianapolis, Ind.	Oct. 24	169,164	56	4	9	22	3	10		21		10		2	
Do.	Oct. 31	169,164	61	1	3	11	2	17	2	17	2	48			
Jacksonville, Fla.	do.	28,429	21	1	1			5		1					
Johnstown, Pa.	Oct. 30	35,936				4		2				5			
Kalamazoo, Mich.	Oct. 23	24,404	15					1							
Kansas City, Kans.	Oct. 30	51,418	27	1	2			9		11	2				
Kearny, N. J.	Oct. 23	10,896	4							1				3	
Kingston, N. Y.	Oct. 30	24,535	12		2										
La Crosse, Wis.	do.	28,895	8												
La Fayette, Ind.	do.	18,116	3												
Lancaster, Pa.	do.	41,459	13	1	1	2		5							
Lawrence, Mass.	Oct. 23	10,862	33	3	3	2	1	3		7	3	5	1		
Lebanon, Pa.	Oct. 30	17,628	7			4									
Lexington, Ky.	do.	26,369	14		2		1	1							
Little Falls, N. Y.	Oct. 16	10,381	5	2		1				12		3			
Do.	Oct. 23	10,381	1	2		1				9		3			
Do.	Oct. 30	10,381	7	1	1	8				1					
Los Angeles, Cal.	Oct. 23	102,479	77	14	6	2		7		12	2	16	3	2	
Lowell, Mass.	do.	94,969	27	1	1	2		1		7	3	1			
Do.	Oct. 30	94,969	32	3	6	2				3	3	1			
Lynchburg, Va.	do.	18,891			1			1							
Lynn, Mass.	Oct. 23	68,513	23		1	3				9	1	1			
Macon, Ga.	Oct. 28	22,746	3					2							
Manchester, N. H.	Oct. 30	56,987	25			1	1	1		5	1	30		1	1
Manitowoc, Wis.	do.	11,786	3	2				1							
Mansfield, Ohio.	do.	17,650			4										
Marnette, Wis.	do.	16,195	3		3			3		1	1				
Massillon, Ohio.	do.	11,944	5	1											
McKeesport, Pa.	Oct. 16	34,227	14	2	1	7		2	1					1	
Do.	Oct. 30	34,227	8		1			1							
Medford, Mass.	do.	18,244			1					2		1			
Melrose, Mass.	Oct. 23	12,962						2						1	

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

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Milwaukee, Wis.	Oct. 30	285,315	86	13	9	4	1	51	4	28	1	2	.....	6	....
Mobile, Ala.	Oct. 23	38,469	18	.....	3	1	2	.....	1	.....	.....	.....	.....	.....	.....
Montgomery, Ala.	Oct. 30	30,346	25	.....	4	.....	1	.....	.....	.....	.....	.....	.....	.....	.....
Mount Vernon, N. Y.	do.....	21,228	5	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....
Nanticoke, Pa.	Oct. 31	12,616	4	3	.....	.....	.....	6	.....	1	.....	.....	.....	.....	.....
Nashville, Tenn.	Oct. 30	80,865	32	1	3	1	.....	14	1	11	1	1	.....	.....	.....
New Bedford, Mass.	do.....	63,442	25	3	4	5	1	9	.....	1	.....	12	.....	.....	.....
Nebraska City, Nebr.	do.....	7,200	2	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newburyport, Mass.	do.....	14,478	5	.....	2	.....	.....	.....	.....	14	.....	.....	.....	.....	.....
New Orleans, La.	do.....	278,104	115	11	12	12	1	12	.....	1	.....	1	.....	.....	.....
Newport, Ky.	do.....	28,301	8	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Newton, Kans.	do.....	6,208	6	1	.....	.....	.....	4	.....	1	.....	.....	.....	.....	.....
Newark, N. J.	do.....	246,070	104	19	17	12	3	32	.....	42	2	.....	4	.....	.....
New York City.	do.....	3,437,202	1,258	435	147	83	21	145	8	262	29	115	6	36	2
Niagara Falls, N. Y.	do.....	19,457	8	.....	1	4	1	5	.....	.....	.....	.....	.....	.....	.....
Norristown, Pa.	do.....	22,265	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Adams, Mass.	do.....	24,200	9	1	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....
Northampton, Mass.	do.....	18,643	10	.....	1	.....	0	.....	.....	1	1	.....	.....	.....	0
Oakland, Cal.	do.....	66,960	43	.....	1	1	.....	2	.....	.....	.....	1	.....	.....	.....
Orange, N. J.	do.....	24,141	7	.....	.....	1	1	3	.....	.....	.....	.....	.....	.....	1
Oswego, N. Y.	do.....	22,199	6	1	1	3	.....	2	.....	.....	.....	.....	.....	.....	.....
Ottumwa, Iowa	Oct. 23	18,197	8	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 30	18,197	11	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Palmer, Mass.	do.....	7,801	4	.....	.....	.....	.....	.....	.....	5	1	.....	.....	.....	.....
Peekskill, N. Y.	do.....	10,358	7	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....
Philadelphia, Pa.	Oct. 23	1,293,697	427	.....	56	.....	8	2	.....	6	.....	.....	.....	.....	3
Pittsfield, Mass.	Oct. 30	21,766	6	4	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....
Plainfield, N. J.	do.....	15,369	7	2	.....	2	.....	5	.....	1	.....	.....	.....	.....	.....
Plymouth, Pa.	do.....	13,649	.....	.....	.....	.....	.....	.....	.....	2	.....	3	.....	.....	.....
Portland, Me.	Oct. 23	50,145	25	.....	3	4	1	.....	.....	4	1	.....	.....	.....	.....
Portsmouth, N. H.	Oct. 30	10,637	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Portsmouth, Va.	Nov. 2	17,427	12	.....	2	4	1	.....	.....	2	.....	.....	.....	.....	.....
Pottstown, Pa.	Oct. 30	13,696	6	.....	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....
Providence, R. I.	do.....	175,597	72	8	4	2	1	14	.....	11	2	9	.....	1	.....
Racine, Wis.	Oct. 23	29,102	9	.....	3	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Do.	Oct. 30	29,102	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Reading, Pa.	Nov. 1	78,961	23	2	2	8	1	7	.....	.....	.....	2	.....	.....	.....
Richmond, Va.	Oct. 23	85,050	53	11	7	8	2	9	.....	1	.....	.....	.....	6	.....
Do.	Oct. 30	85,050	46	4	4	6	1	.....	.....	16	.....	.....	.....	.....	.....
Rock Island, Ill.	do.....	31,051	6	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
Sacramento, Cal.	Oct. 2	29,282	14	1	1	2	0	.....	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 9	29,282	19	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 16	29,282	15	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 23	29,282	11	.....	3	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
Saginaw, Mich.	Oct. 16	42,345	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 23	42,345	15	.....	.....	.....	.....	1	.....	.....	.....	9	.....	.....	.....
St. Louis, Mo.	Oct. 30	575,238	196	44	18	18	1	9	2	43	3	3	.....	12	2
San Antonio, Tex.	Oct. 23	53,321	1	.....	.....	6	1	.....	.....	.....	.....	.....	.....	.....	.....
Do.	Oct. 30	53,321	1	.....	.....	2	1	.....	.....	5	.....	.....	.....	.....	.....
San Francisco, Cal.	Oct. 23	342,782	120	32	12	7	1	6	.....	.....	.....	4	.....	5	.....
Savannah, Ga.	Oct. 30	54,244	1	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....
Somerville, Mass.	do.....	61,643	16	2	3	6	1	4	.....	6	.....	.....	.....	.....	.....
South Bend, Ind.	do.....	35,999	14	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....
South Bethlehem, Pa.	do.....	13,241	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Spokane, Wash.	Oct. 16	38,848	26	.....	2	9	1	11	1	2	.....	2	.....	.....	.....
Do.	Oct. 23	38,848	20	.....	1	11	1	11	.....	3	.....	1	.....	.....	.....
Springfield, Mass.	Oct. 30	62,059	21	.....	1	6	1	4	.....	8	1	.....	.....	.....	.....
Springfield, Ohio.	Oct. 23	38,253	11	4	1	.....	.....	.....	.....	4	.....	.....	.....	.....	.....
Do.	Oct. 30	38,253	10	3	3	.....	.....	.....	.....	6	.....	.....	.....	.....	.....
Stelton, Pa.	do.....	12,068	4	.....	.....	2	.....	.....	.....	4	.....	11	.....	.....	.....
Superior, Wis.	do.....	31,091	5	.....	.....	.....	.....	1	1	5	.....	.....	.....	.....	.....
Tacoma, Wash.	Oct. 24	37,714	25	.....	1	1	.....	7	1	.....	.....	.....	.....	.....	.....
Taunton, Mass.	Oct. 30	31,036	16	1	.....	4	1	.....	.....	.....	.....	.....	.....	.....	.....
Terre Haute, Ind.	do.....	36,673	18	1	2	6	3	3	.....	.....	.....	3	.....	.....	.....
Titusville, Pa.	do.....	8,244	1	.....	.....	.....	.....	2	0	.....	.....	.....	.....	.....	.....
Trenton, N. J.	do.....	73,307	.....	2	.....	7	.....	12	.....	3	.....	.....	.....	.....	.....
Victoria, Va.	do.....	300	3	5	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....
Waltham, Mass.	do.....	23,481	5	2	.....	1	.....	1	1	2	.....	.....	.....	.....	.....
Warren, Ohio.	Oct. 29	8,529	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Washington, D. C.	Oct. 23	278,718	96	21	13	18	2	19	.....	32	1	4	.....	4	.....
Weymouth, Mass.	Oct. 30	11,324	2	.....	1	.....	.....	1	.....	1	.....	1	.....	.....	.....
Wheeling, W. Va.	Oct. 23	38,878	14	4	.....	1	1	2	.....	3	.....	2	.....	.....	.....
Wichita, Kans.	do.....	24,671	14	.....	.....	.....	.....	1	.....	3	.....	.....	.....	.....	.....
Do.	Oct. 30	24,671	18	1	.....	4	1	.....	.....	5	.....	1	.....	.....	.....

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

Cities.	Week ended—	Popula- tion, United States census, 1900.	Total deaths from all causes.	Tuber- culosis.		Enteric fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Wilkes-Barre, Pa.	Oct. 22	51,721	26	2	1	.....	.....	.....	.....	4	2	.....	.....	4	.....
Do.	Oct. 29	51,721	19	5	2	.....	.....	3	.....	3	1	.....	.....	5	1
Wilkinsburg, Pa.	Oct. 27	13,000	3	.....	7	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Williamsport, Pa.	Oct. 23	28,757	10	6	3	.....	.....	3	.....	.....	.....	1	.....	2	.....
Do.	Oct. 30	28,757	6	.....	.....	.....	.....	5	.....	.....	.....	1	.....	.....	.....
Wilmington, Del.	do.	76,508	28	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Winona, Minn.	do.	19,714	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Woburn, Mass.	do.	14,254	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
York, Pa.	do.	33,708	.....	.....	.....	.....	.....	.....	.....	4	.....	11	.....	.....	.....
Zanesville, Ohio.	do.	23,538	5	.....	.....	.....	.....	2	.....	1	.....	.....	.....	.....	.....

FOREIGN AND INSULAR.

BARBADOS.

Report from Bridgetown—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Urquhart reports, October 23:

Week ended October 23.

Bills of health issued to 8 vessels, having a total of 318 members of crews and 24 passengers. Two vessels were fumigated. The sanitary condition of vessels, cargoes, crews, and passengers was good. The sanitary condition of the port remains good; no quarantinable disease was reported for the port or island during the week.

BELGIUM.

Cholera at Boom.

Passed Assistant Surgeon Foster cabled from Antwerp, November 8:

There have been 9 cases of cholera at Boom, 10 miles from Antwerp, October 26 to 30, 6 fatal. Last case occurred October 30. Rigorous disinfection and isolation of suspects have been carried out.

BRAZIL.

Report from Rio de Janeiro—Inspection of vessels—Mortality—Plague and smallpox.

Acting Assistant Surgeon Stewart reports, October 16:

Two weeks ended October 10.

Vessels inspected and bills of health issued: September 27, the British steamship *Castilian Prince*, for New York, with coffee, no passengers, and no change in the crew personnel; September 28, the British steamship *African Prince*, for New Orleans, with cargo of coffee, no passengers, and no change in the crew personnel; September 28, the Norwegian bark *Glenlora*, for Ship Island, in stone and sand ballast, with no passengers, and no change in the crew personnel; September 30, the British steamship *Carrigan Head*, for Tampa, in water ballast, with no passengers, and no change in crew personnel; October 2, the British steamship *Byron*, for New York, with cargo of coffee, 10 cabin and 8 steerage passengers, and no change in the crew

personnel; October 8, the British steamship *Hillfern*, in water ballast, for Port Tampa, with no passengers and no change in the crew personnel; on the same date the Brazilian steamship *São Paulo* for New York, the first trip of this vessel, with coffee, 15 cabin and 3 steerage passengers, and whole crew signed on in this the home port; October 9, the British steamship *Llangibby*, for Newport News, in water ballast, with no passengers and no change in the personnel of the crew, and on the same date the British steamship *Norman Prince*, for New York, with coffee, no passengers, and no change in the personnel of the crew.

Mortality reports for the city of Rio de Janeiro.

Week ended October 3, 1909: Total deaths, 227. No deaths nor cases due to yellow fever; 1 new case of smallpox; no cases nor deaths reported due to bubonic plague. At the close of the week there were in the Hospital São Sebastiao 5 cases of smallpox and 1 case of plague under treatment, and 33 cases of suspicious illness held for further observation.

Week ended October 10, 1909: Total deaths, 247. One case of plague and 2 cases of smallpox reported. At the close of the week there were in the Hospital São Sebastiao 6 cases of smallpox and 1 case of plague under treatment, and 30 cases of suspicious illness held for further observation.

BRITISH HONDURAS.

Report from Belize, fruit port.

Acting Assistant Surgeon Mengis reports:

Week ended October 21.

Present officially estimated population, 10,000. General sanitary condition of this port and the surrounding country during the week, good. The prevailing disease is malaria.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Oct. 15	Belize.....	Mobile.....	17	4	0
16	Belvernon.....	New Orleans.....	24	0	2
19	Heredia.....	do.....	81	0	8

CHINA.

Report from Amoy—Inspection of vessels—Cholera and plague.

Passed Assistant Surgeon Foster reports, September 27:

Week ended September 25: One bill of health issued from this office.

September 19 the British steamship *Taisang*, with 65 in the crew and 16 cabin and 30 steerage passengers for Manila, was granted an original bill of health. Two Chinese were rejected, one for trachoma and one

for malarial fever. The crew and steerage passengers were bathed and their clothing was disinfected by steam. All on board were inspected at the time of sailing. Manifests were viséed for 79 pieces of freight. Vessel anchored in the stream while in port.

During the week ended September 25, 1909, there were 38 deaths from plague and 22 from cholera in Amoy.

Reports from Hongkong—Quarantine restrictions—Examination of emigrants—Inspection and fumigation of vessels.

Acting Assistant Surgeon Hough reports, September 28:

Week ended September 25.

Restrictions enforced by Hongkong remain as reported on July 17, 1909. The Government of Ceylon has removed the quarantine restrictions against Hongkong.

Aliens for Honolulu and Pacific coast ports.—Examined, 55; rejected, 9.

Aliens for Philippine Islands.—Examined, 8; rejected, 1.

Inspection and disinfection of vessels.

Vessels granted bills of health.....	10
Total members of crews.....	573
Total cabin passengers.....	101
Total steerage passengers.....	81
Members of crews bathed.....	525
Steerage passengers bathed.....	48
Pieces of baggage disinfected.....	573
Vessels disinfected to kill rats.....	3
Crews' quarters disinfected:	
By formaldehyde.....	6
By sulphur.....	2

COSTA RICA.

Reports from Limon, fruit port.

Acting Assistant Surgeon Harris reports:

Week ended October 18. Estimated population, 8,000. General sanitary condition of this port and the surrounding country during the week, good. Prevailing diseases were uncinariasis, tuberculosis, and malaria.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Oct. 13	A tenas.....	88	6	31	0
15	Preston.....	29	1	0	0
15	Heredia.....	80	a 19	b 3	0
16	Esparta.....	44	6	0	0
17	Sarnia.....	55	47	3	0

a To Belize and Barrios.

b Two to New Orleans.

Week ended October 25. General sanitary condition of port and surrounding country same as reported for preceding week.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Oct. 20	Turrialba.....	89	6	46	0
22	Harry T. Inge.....	26	0	0	0
23	Cartago.....	83	a 11	b 3	0
23	Limon.....	44	3	0	0
25	Prinz Joachim.....	142	120	12	0

^a To Puerto Barrios and Belize.

^b One to New Orleans.

CUBA.

Report from Cienfuegos—Inspection of vessels—Sanitary conditions.

Acting Assistant Surgeon Suarez reports, October 25:

Week ended October 23.

Vessels inspected.....	1
Bills of health issued.....	1
Members of crews of outgoing vessels inspected.....	8

The sanitary condition of the city and port is satisfactory; no quarantinable disease reported.

Reports from Matanzas—Inspection of vessels—House inspection.

Acting Assistant Surgeon Nuñez reports, October 25 and November 1:

Week ended October 23.

Bill of health issued to 1 vessel clearing for United States ports in good sanitary condition.

For the 10 days ended October 20 the local sanitary department reports 4,266 houses inspected.

No quarantinable disease was reported during the week.

Week ended October 30.

Bills of health were issued to 5 vessels clearing for the United States in good sanitary condition. No quarantinable diseases were reported in this district.

Report from Santiago—Inspection of vessels—House inspection.

Acting Assistant Surgeon Wilson reports, October 23:

Week ended October 23.

Bills of health were issued to 3 vessels bound for the United States. No new case of quarantinable disease was reported.

The sanitary department reports that 3,072 houses were inspected.

GERMANY.

Cholera in Germany.

The following information was received from the Department of State under date of November 1.

Cable from the consul-general at Berlin dated November 1:

Consular agent, Königsberg, reports 10 new cases cholera—3 Andreischen, 3 Skoeten Niederung district, 1 Heydekrug, 3 Ladian districts. German officials state up to to-day 22 cases reported, with 7 deaths. Foreign office said to have cabled situation to Paris convention governments. Doubtless infection from raftsmen River Menel. Doctors sent supervise and erect barracks where necessary.

HAWAII.

Report from Honolulu—Plague prevention work.

Chief Quarantine Officer Hobby reports, October 18:

HONOLULU.

Last case rat plague (Aiea), 9 miles from Honolulu, August 22, 1907.

Last case human plague, Honolulu, July 17, 1907.

Last case rat plague (Pepeekeo), Hilo, Hawaii, October 5, 1909.

Last case human plague (Pepeekeo), Hilo, Hawaii, October 4, 1909.

Week ended October 16.

Total rats taken.....	467
Trapped.....	467
Found dead.....	0
Examined bacteriologically.....	346
Found plague infected.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i>	56
<i>Mus musculus</i>	132
<i>Mus norvegicus</i>	93
<i>Mus rattus</i>	186
Average number of traps set daily.....	1, 294

HILO.

Rat cases proved to be plague infection during week.....	1
Rat cases still under investigation.....	14
Human cases still under investigation.....	1

HONDURAS.

Report from Ceiba, fruit port.

Acting Assistant Surgeon Jumel reports:

Week ended October 27.

Present officially estimated population, 6,800. General sanitary condition of this port and the surrounding country during the week, good. The prevailing disease is malaria.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Oct. 21	Joseph Vaccaro.....	32	1	0	0
24	Fjell.....	17	0	0	0
27	Navigator.....	21	0	0	0

Report from Puerto Cortez, fruit port.

Acting Assistant Surgeon Wailes reports:

Week ended October 20.

Present officially estimated population, 2,500. General sanitary condition of this port and the surrounding country, good.

Bill of health issued to the following-named vessel:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Oct. 19	Mercator.....	17	0	0	0

Report from Tela, fruit port.

Acting Assistant Surgeon Roe reports:

Week ended October 23.

Present officially estimated population, 1,500. General sanitary condition of this port and the surrounding country during the week, good.

Bill of health issued to the following-named vessel:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
Oct. 23	Fjell.....	New Orleans.....	17	0	0

INDIA.

Report from Calcutta—Transactions of service—Cholera, plague.

Acting Assistant Surgeon Allan reports, September 30 and October 7:

Week ended September 25.

Bill of health was issued to the steamship *Sutton Hall* bound for Boston and New York with a total crew of 53. The usual precautions

were taken, holds fumigated, rat guards placed on wharf lines, and Asiatics' effects disinfected.

In Calcutta there were 10 deaths from cholera and 5 from plague; in Bengal, 46 cases of plague with 43 deaths; in all India there were 4,657 cases of plague with 3,595 deaths.

ITALY.

Report from Naples—Inspection of vessels—Examination of emigrants—Smallpox in Naples.

Acting Assistant Surgeon Buonocore reports, October 18.
Week ended October 16:

Vessels inspected at Naples.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
Oct. 11	Cairnloch	Boston			
11	Europa	New York	802	110	1,150
13	Duca degli Abruzzi	do	871	190	1,100
15	Berlin	do	746	160	960
16	Virginia	do	438	80	470
	Total		2,857	540	3,680

Rejections recommended.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Other causes.	Total.
Oct. 11	Cairnloch						
11	Europa	27	2	16		8	53
13	Duca degli Abruzzi	27	3	15		14	59
15	Berlin	14	1	14		8	37
16	Virginia	8	2	7		5	22
	Total	76	8	52		35	171

Smallpox in Naples.—During the week ended October 17, 1909, there were 4 cases of smallpox reported at the health office of the city of Naples.

JAPAN.

Report from Kobe—Inspection of vessels—Examination of emigrants—Plague.

Acting Assistant Surgeon Knight reports, October 6.

Week ended October 2:

Supplemental bills of health were granted to 3 steamships.

There were inspected 252 members of crews, 87 steerage passengers, and 21 cabin passengers. Seventeen steerage passengers were bathed and had their effects disinfected by steam. The number of pieces of baggage steamed was 49 and bedding 34. Manifests were viséed for 31,654 pieces of freight, amounting to 3,714 tons. During the week 65 cases of human hair and 15 bales of rabbit skins were disinfected with formalin.

Emigrants examined: For steamship *Nippon Maru* for Honolulu, passed 13, recommended for rejection 28; for San Francisco, passed 4, recommended for rejection 6. The emigrants were 7 days in quarantine detention at Ono before embarkation.

The official returns of infectious diseases for the week show that there were reported in Kobe 7 cases plague, with 3 deaths.

MEXICO.

Report from the Superior Board of Health of Mexico—Yellow fever at Merida.

In compliance with articles 1 and 2 of the International Sanitary Convention held at Washington October 14, 1905, the president of the Superior Board of Health of Mexico reports that for the week ended October 23 1 case of yellow fever was registered October 20, and 1 fatal case October 21, in the city of Merida, and that prophylactic measures against the disease continue to be carried out.

Report from Progreso—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Harrison reports, October 23:

Week ended October 22.

Vessels inspected.....	5
Vessels fumigated.....	3
Members of crews.....	180
Passengers from this port.....	14

No changes of importance in sanitary conditions were noticeable in Progreso, while Merida continued to be yellow-fever infected.

Report from Tampico—Inspection and fumigation of vessels—Sanitary conditions.

Acting Assistant Surgeon Stowe reports, October 28:

Week ended October 27.

Vessels inspected and passed.....	5
Bills of health issued.....	5
Members of crews of outgoing vessels inspected.....	159
Passengers of outgoing vessels inspected.....	3
Vessels fumigated prior to sailing.....	1

No case of quarantinable disease occurred during the week. Sanitary condition of port and surrounding country, good.

Reports from Veracruz—Inspection and fumigation of vessels—Sanitary conditions—Smallpox.

Acting Assistant Surgeon Carter reports, October 25 and 27:

Week ended October 24.

Bills of health issued.....	8
Vessels inspected.....	3
Vessels fumigated.....	5
Passengers inspected.....	100
Members of crews inspected.....	328

General sanitary conditions are good, smallpox, of which there were 9 cases, being the only contagious disease reported. Fourteen cases are being treated in the lazaretto. At Soledad, a village about one hour from Veracruz, 3 cases of smallpox have been reported. Cases are also reported among the natives in the vicinity of Medellin, where there was a previous outbreak.

Acting Assistant Surgeon Carter further reports, October 27:

A case of smallpox was discovered on the steamship *Montevideo*, October 26, in a child 10 months of age. The family with its baggage was removed from the vessel. The sanitary authorities were at once notified and the usual precautions taken. The family came from Mexico City, arriving in Veracruz the morning of October 26, about four hours before the sailing of the vessel, which is bound for Barcelona, Spain, via Habana, Colon, and New York.

RUSSIA.

Report from Libau—Status of cholera in Russia.

Acting Assistant Surgeon De Forest reports, October 16:

Cholera in Russia from October 9 to October 15, 1909, inclusive.

	Cases.	Deaths.		Cases.	Deaths.
St. Petersburg.....	266	111	Mohilev.....	3	5
Kreusholm.....	14	6	Ponevetsch.....	26	14
Joachimstat.....	3	1	Krevementschug.....	7	9
Novgorod.....	17	10	Zarizyu.....	1	1
Tver.....	32	10	Kostroma.....	32	11
Tver government.....	17	8	Grodno.....	1	1
Jarislav.....	34	15	Kiev.....	56	27
Jarislav government.....	32	17	Tschernigov.....	3	1
Archangel.....	2	2	Astrachan.....	5	2
Schoukursh.....	1	0	Tiflis.....	59	31
Vartuovik.....	6	6	Batum.....	2	0
Drissa.....	2	0	Kronstadt.....	1	0
Balachua.....	1	2	Saratov.....	1	0

One thousand two hundred and fifty-five emigrants were examined for the steamship *Russia*, sailing Wednesday, October 20. At the time of sailing they will have been under observation in Libau for the required five days. Four hundred pieces of baggage were disinfected.

VENEZUELA.

Report from La Guaira—Inspection of vessels.

Acting Assistant Surgeon Kellogg reports, October 17:

Week ended October 16.

No quarantinable diseases were reported in La Guaira or vicinity. Ships inspected and bills of health issued:

Date.	Vessel.	Destination.	Crew.	Passengers in transit.	Passengers taken.
Oct. 14	Prins Fred Hendrik.....	New York.....	65	9	20
16	Alperian.....	Pensacola.....	45	0	0
16	Maracaibo.....	New York.....	51	3	0

FOREIGN AND INSULAR STATISTICAL REPORTS OF COUNTRIES AND CITIES—UNTABULATED.

ALGERIA—Bona.—Month of September, 1909. Estimated population 42,000. Total number of deaths 76, including smallpox 3, enteric fever 1, scarlet fever 1, whooping cough 2, and 13 from tuberculosis.

GREAT BRITAIN—London.—One thousand one hundred and twenty-seven deaths were registered during the week ended October 9, 1909, including measles 6, scarlet fever 10, diphtheria 4, whooping cough 21, enteric fever 2, and 60 from diarrhea. The deaths from all causes correspond to an annual rate of 12.2 per 1,000. In Greater London 1,584 deaths were registered. In the "outer ring" the deaths included 1 from scarlet fever, 4 from diphtheria, and 1 from whooping cough.

Ireland.—The average annual death rate represented by the deaths registered during the week ended October 9, 1909, in the 21 principal town districts of Ireland was 15.1 per 1,000 of the population, which is estimated at 1,142,308. The lowest rate was recorded in Waterford, viz, 3.9, and the highest in Drogheda, viz, 32.7 per 1,000.

Scotland.—One thousand nine hundred and seventy-nine deaths were registered in 8 principal towns during the month of September, 1909, corresponding to an annual rate of 12.9 per 1,000 of the population, which is estimated at 1,865,571. The highest rate of mortality was recorded in Dundee, viz, 15.8, and the lowest in Greenock, viz, 10.4 per 1,000. The deaths registered in 8 principal towns during the week ended October 9, 1909, correspond to an annual death rate of 12.0 per 1,000 of population. The aggregate number of deaths registered from all causes was 428, including measles 3, scarlet fever 7, diphtheria 12, whooping cough 1, enteric fever 3, and 18 from diarrhea.

Manchester.—Five weeks ending October 2, 1909. Total number of deaths 954, including measles 10, scarlet fever 13, and 128 from tuberculosis.

MAURITIUS—Port Louis.—Month of July, 1909. Population 374,237. Total number of deaths 1,158, including enteric fever 2, diphtheria 1, measles 1, plague 8, and 58 from tuberculosis.

SOUTH AFRICA—Johannesburg.—Two weeks ended June 12, 1909. Population 180,687. Total number of deaths 143, including enteric fever 2, scarlet fever 3, diphtheria 1, measles 1, whooping cough 1, and 2 from tuberculosis. Two weeks ended June 26, 1909. Total number of deaths 152, including enteric fever 7, scarlet fever 3, diphtheria 1, whooping cough 1, and 3 from tuberculosis. Two weeks ended July 10, 1909. Total deaths from all causes 128, including enteric fever 1, scarlet fever 2, whooping cough 1, and 3 from tuber-

culosis. Two weeks ended July 24, 1909. Total deaths from all causes 124, including enteric fever 6, scarlet fever 1, diphtheria 1, whooping cough 2, and 4 from tuberculosis. Two weeks ended August 7, 1909. Total number of deaths 169, including enteric fever 4, scarlet fever 4, diphtheria 2, whooping cough 1, and 8 from tuberculosis. Two weeks ended August 21, 1909. Total number of deaths 235, including enteric fever 5, scarlet fever 5, diphtheria 3, whooping cough 1, and 2 from tuberculosis. Two weeks ended September 4, 1909. Total number of deaths 93, including enteric fever 4, scarlet fever 2, diphtheria 1, whooping cough 2, and 6 from tuberculosis. Two weeks ended September 18, 1909. Total number of deaths 154, including enteric fever 4, scarlet fever 3, measles 1, and 22 from tuberculosis.

Cholera, yellow fever, plague, and smallpox from June 26 to November 12, 1909.

[Reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State, and from other sources.]

[For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Belgium:				
Antwerp.....	Oct. 26-30.....	9	6	At Boom, 10 miles distant.
China:				
Amoy.....	June 13-Sept. 25.....		239	
Chefoo.....	Aug. 28.....		5	Among Europeans; Sept. 11, epidemic.
Hankow.....	July 17-Sept. 11.....	13	5	Sept. 25, still present among natives.
Kang Chau.....	Apr. 1-June 30.....	4	2	
Shanghai.....	July 26-31.....	3	1	On s. s. Hudson; Aug. 7, present among foreigners and natives; Sept. 25, still present among natives.
Swatow.....	May 11-29.....			Present in vicinity; Aug. 28, 3 cases, 2 deaths, on s. s. Waishing.
Germany:				
Andrleschen district.....	Nov. 1.....	1		
Heydekrug district.....	Oct. 20-Nov. 1.....	4		
Konigsberg.....	July 21.....		1	
Ladian district.....	Nov. 1.....	3		
Niederung.....	Oct. 16-Nov. 1.....	3	2	
Pakalsine.....	Sept. 20.....	2	1	Near Russ.
Stoltzenhagen.....	Sept. 18.....		1	25 miles from Stettin.
Tilst.....	Oct. 11.....		1	
India:				
Bombay.....	May 30-Oct. 5.....		400	
Calcutta.....	May 16-Sept. 18.....		933	
Madras.....	May 28-Aug. 20.....		7	
Negapatam.....	May 8-14.....		4	
Rangoon.....	May 16-Sept. 25.....		65	
Indo-China:				
Saigon.....	May 9-July 24.....	23	17	
Japan:				
Amagasaki.....	Aug. 14-21.....	4		
Kagawa, prefecture.....	Aug. 8-14.....	7		
Karatsu.....	Sept. 1-9.....	11	2	On s. s. Takan Maru.
Kobe.....	Sept. 6-13.....	3	1	July 31, 1 case on s. s. Nile.
Mitaliri.....	Aug. 22.....	21		From s. s. Kaga Maru.
Java:				
Batavia.....	Sept. 12-25.....	200	100	Among natives and Chinese.

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Korea.	Aug. 28			Epidemic in northern part.
Chemulpo	Sept. 11			Epidemic.
Seoul	Sept. 19-25	440		Sept. 29, estimated 100 cases daily.
Manchuria:				
Dalny	Aug. 11-Sept. 25	26	22	Case Aug. 11 on s. s. Kobe Maru.
Liaoyang	Aug. 10		1	
Mukden	Aug. 14		1	
Tashihchiao	Aug. 11		1	
Yinkou	Aug. 14	6	1	
Netherlands, The.	Aug. 20-Sept. 4			5 deaths among boatmen from Rotterdam.
Amsterdam	Sept. 10	1	1	
Breda	Aug. 30-Sept. 4	1		
Dirksland	Sept. 10	1		
Dordrecht	Aug. 30			Present.
Gorkum	Aug. 30-Sept. 4	1		
Hansweert	Sept. 27-Oct. 2	3		
Hattem	Oct. 1-8	4	1	
Holsteren	Sept. 1-7	1		
Hoogvliet	Sept. 1-7	1		
Lopik	Sept. 27-Oct. 2	2		
Middleburg	Sept. 4	1		
Pernis	Sept. 1-7	2		
Rotterdam	Aug. 20-Sept. 11	34	15	
Tholen	Sept. 4	1		
Ulthorn	Aug. 30-Sept. 4	1		
Utrecht	Sept. 4	1		
Vlaardinger	Sept. 4	1		
Philippine Islands:				
Manila	July 11-Sept. 11	33	23	Fourth quarter 1908, 308 cases and 190 deaths; first quarter 1909, 1 death (imported); second quarter 1909, no cholera. Fourth quarter 1908, 7,330 cases and 4,292 deaths; first quarter 1909, 2,221 cases and 1,405 deaths; second quarter 1909, 961 cases and 630 deaths.
Provinces.				
Albay	Aug. 27-Sept. 4	353	258	
Ambos Camarines.	July 4-Sept. 11	464	335	
Batan	Sept. 5-11	11	9	
Bohol	Aug. 28-Sept. 11	53	33	
Bulacan	July 4-Sept. 11	214	156	
Cagayan	July 11-Sept. 4	220	116	
Cebu	May 16-Sept. 11	126	82	
Dapitan	May 9-15			Present.
Ilocos Norte	Aug. 15-Sept. 11	125	64	
Iloilo	May 23-June 19	28	18	
Isabela	July 18-24	5	4	
Leyte	June 6-July 31	22	11	
Moro	May 29-July 3	9	9	
Mountain	June 20-26	27	15	
Negros Occidental	May 9-15	8	2	
Negros Oriental	May 16-Sept. 11	507	360	
Pampanga	May 9-Sept. 4	378	268	
Pangasinan	June 13-19	1		
Rizal	July 25-Sept. 4		2	
Samar	May 9-July 10	42	26	
Sorsogon	May 9-15	8	2	
Tarlac	July 4-Sept. 11	28	23	
Russia, general.	May 23-Oct. 2	11,207	4,690	July 23, present in Kreutzburg, Mahigräben, Muravjevo, Pinnega, Radswilischki, Reval, Schaulen, and Tver.
Alexandrovsk	Aug. 28-Oct. 1	10	8	
Archangel	June 26-Oct. 1	355	191	
Astrachan	Sept. 17-Oct. 1	14	7	
Baku, government	July 4-Oct. 1	2		
Chmalysk, district	July 1	1		
Courland	July 5-Oct. 1	245	107	
Cronstadt	June 30-Sept. 17	66	26	
Dorpat	Aug. 14-20	1		
Drissa	July 23-Sept. 17	38	17	
Esthonia, government	July 1-Aug. 21	4	3	
Finland, general	July 16	1		
Mariengam	June 23-24	1	1	
Viborg	July 9-16	1		
Gadjatschek	Aug. 3-Sept. 3	53	18	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Griva.....	Sept. 25—Oct. 1....	128	56	
Hungerburg.....	July 30—Oct. 1....	11	7	
Jaroslav, government.....	Sept. 11—Oct. 1....	361	177	
Jaroslav.....	July 4—Oct. 1....	470	237	
Kem.....	Aug. 8—Oct. 1....	47	24	
Kharkov.....	Aug. 1—Sept. 3....	20	10	
Kherson.....	Oct. 1.....	1	.....
Kief.....	Sept. 11—Oct. 1....	26	17	July 30, present.
Kostroma.....	July 23—Oct. 1....	186	64	
Kretsky, district.....	July 1.....	1	.....
Livonia.....	July 5—Aug. 21....	85	41	
Mitau.....	July 15—Oct. 1....	28	17	
Mohlevo, government.....	Aug. 2—Oct. 1....	131	67	
Moscow.....	July 9—Oct. 9....	26	9	
Nishni Novgorod.....	July 4—Sept. 17....	57	31	
Novgorod, government.....	July 4—Oct. 1....	393	131	
Olonets, government.....	June 20—Aug. 14....	11	7	
Perm.....	Aug. 2—Oct. 1....	27	11	
Polotzk.....	June 27—Oct. 1....	711	202	
Poltava, government.....	Aug. 15—Oct. 1....	105	47	
Pskov.....	July 1—Sept. 17....	120	42	
Reval.....	Aug. 21—27....	2	.....
Riga.....	July 1—Oct. 16....	327	129	
Rjasin.....	June 24—July 6....	3	3	
Rubinsk.....	July 30—Sept. 17....	185	103	
Samara.....	Aug. 15—17....	5	2	
Saratov.....	Aug. 15—Oct. 1....	7	1	
Simbirsk.....	July 13.....	2	.....
St. Petersburg, government.....	June 9—Oct. 2....	886	455	
St. Petersburg.....	June 2—Oct. 15....	5,741	2,236	
Tver, government.....	Aug. 15—Oct. 1....	348	81	
Viatka, government.....	July 6—24....	2	2	
Vilna.....	July 11—Aug. 21....	61	20	
Vitebsk, government.....	July 9—Sept. 17....	703	261	
Vologda, government.....	May 31—Oct. 1....	544	234	
Siam:				
Bangkok.....	Apr. 25—May 28....	1	.....
Siberia:				
Vladivostok.....	Sept. 23—Oct. 1....	32	14	
Straits Settlements:				
Singapore.....	May 9—Sept. 18....	.....	20	
Sumatra:				
Djambi.....	July 15—Aug. 20....	220	113	Among natives.
Sweden:				
Stockholm.....	Aug. 12.....	1	.....	Imported.

YELLOW FEVER.

Barbados, general.....	June 13—Aug. 14....	2	1	St. Joseph Parish, December to June, 14 deaths not previously reported.
Brazil:				
Bahia.....	May 22—Sept. 17....	46	22	
Manaos.....	May 23—Aug. 14....	.....	11	Apr. 24—May 1—2 deaths. Reported out of date.
Para.....	May 30—Oct. 16....	66	56	
Pernambuco.....	Apr. 15—Aug. 31....	.....	11	
British Guiana:				
Suddie.....	July 22.....	1	1	35 miles from Georgetown.
Ecuador:				
Guayaquil.....	May 23—Sept. 11....	.....	50	
Mexico:				
Merida.....	June 5—Oct. 21....	13	5	Sept. 11, 2 cases imported from the district of Acanceh.
Tektik.....	Oct. 1.....	1	.....
Veracruz.....	Sept. 24.....	.....	1	On s. s. Sonora.
Panama:				
Canal Zone—				
Ancon.....	Mar. 1—31.....	.....	.....	1 case at Culebra Island quarantine station, from a vessel, and 1 fatal case en route from Guayaquil.
Venezuela:				
Malquetia.....	Aug. 15—25.....	2	2	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Australia:				
Adelaide.....	Apr. 30-June 12...	2	2	And vicinity.
Bunbury.....	June 4.....	1	1	On s. s. Zoroaster.
Mackay.....	Jan. 21-June 6.....	2	2	
Sydney.....	Apr. 18-May 29...	5	1	
Azores:				
Terceira.....	June 16.....	3	1	
Bahrein Island, Persian Gulf:				
.....	May 29-June 10.....	.....	6	
Brazil:				
Bahia.....	May 22-Oct. 8.....	42	34	
Rio de Janeiro.....	May 17-Oct. 10.....	7	3	
Chile:				
Antofagasta.....	May 9-30.....	13	5	July 10, 4 cases in the lazaretto.
Iquique.....	May 20-Sept. 22.....	23	12	Sept. 22, 2 cases in the lazaretto.
Magillones.....	May 4.....	.....	.....	Still present.
China:				
Amoy.....	June 1-Sept. 25.....	.....	993	
Canton.....	May 9-Aug. 7.....	325	211	
Chang-Poo.....	July 23.....	.....	.....	Epidemic.
Chincheu.....	May 22.....	.....	.....	Do.
Eng-Ta-Tau.....	July 1-31.....	11	4	
Hongkong.....	May 2-Aug. 18.....	92	83	
Kang-be.....	July 24.....	61	59	
Kang Thau.....	Apr. 1-July 31.....	125	62	
Pollam.....	May 23-29.....	8	7	
Swatow district.....	May 16-July 3.....	.....	450	July 1, 200 cases still present in Touchowfu and Yin Shan.
Swatow.....	May 16-July 19.....	.....	2	
Ecuador:				
Babohoyo.....	Sept. 21.....	.....	.....	Present.
Chunchi.....	June 1-30.....	3	1	
Duran.....	July 16-31.....	3	.....	Sept. 21, again present.
Guayaquil.....	May 23-Sept. 30.....	149	70	
Huigra.....	May 1-June 15.....	16	3	
Egypt:				
Alexandria.....	May 30-Sept. 20.....	14	10	
Port Said.....	May 29-Sept. 21.....	14	5	
Provinces—				
Assiout.....	May 14-Sept. 23.....	48	8	
Beherach.....	June 14-Sept. 8.....	37	14	
Galyoobeeyeh.....	June 2-Sept. 6.....	10	2	
Garbleh.....	June 2-Sept. 14.....	47	18	
Fayum.....	June 3-23.....	15	6	
Menouf.....	Jan. 18-Aug. 17.....	87	17	
German East Africa:				
Muanza district.....	Apr. 30-May 22.....	.....	12	
Hawaii:				
Hilo.....	Aug. 19-Oct. 4.....	4	3	Cases Sept. 6 and 19 at Papaikou.
Honolulu.....	July 20.....	1	.....	The case arrived on the s. s. Korea, had been ill 11 days, and probably received infection at Hongkong.
Olaa plantation.....	Aug. 20-22.....	3	2	
India:				
Bombay Presidency and Sind.....	May 16-Sept. 4.....	5,548	4,150	
Madras Presidency.....	May 16-Sept. 4.....	1,944	1,217	
Bengal.....	May 16-Sept. 4.....	1,008	846	
United provinces.....	May 16-Sept. 4.....	4,202	3,615	
Punjab.....	May 16-Sept. 4.....	7,167	6,135	
Burma.....	May 16-Sept. 4.....	1,415	1,348	
Central provinces, including Berar.....	May 16-Sept. 4.....	967	703	
Mysore State.....	May 16-Sept. 4.....	1,364	972	
Central India.....	July 18-Sept. 4.....	302	173	
Rajputana and Ajmer-Merwara.....	May 16-Sept. 4.....	1,062	887	
Kashmir.....	May 16-June 12.....	4	3	
Grand total.....	.....	24,983	20,049	
Indo-China:				
Saigon.....	May 9-Sept. 13.....	114	110	
Japan:				
Formosa.....	May 23-July 17.....	223	156	In south and central parts.
Kobe.....	May 30-Sept. 25.....	78	58	
Osaka.....	July 4-10.....	1	1	
Nagasaki.....	Sept. 11.....	.....	.....	Present on a vessel.
Shikoku, Island.....	July 17-Aug. 3.....	3	1	
Shimonoseki.....	Sept. 11.....	.....	.....	Present.
Tokyo.....	June 26.....	3	.....
Yokohama.....	May 25-Aug. 7.....	28	24	

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mauritius.....	Apr. 1-Aug. 19....	26	25	
Morocco:				
Casablanca.....	July 15-Sept. 17....		4	Among troops.
Peru:				
Arequipa, department.....	May 8-Sept. 23....	15	4	
Chala.....	July 3-15.....			Present.
Mollendo.....	July 3-15.....			Do.
Cajamarca, department.....	May 8-July 15....	20	6	
Callao, department.....	May 8-Aug. 12....	10	4	
Callao.....	June 20-Aug. 7....			Present. Sept. 1, again present.
Ica, department.....	July 3-Sept. 9....	2		
Lambayeque, department.....	May 8-Aug. 12....	18	11	
Eten.....	July 15.....			Present.
Libertad, department.....	May 8-Sept. 23....	26	13	
Salaverry.....	July 15.....			Do.
Lima, department.....	May 8-Sept. 23....	37	16	
Cerro Azul.....	July 15.....			Do.
Moquegua, department.....	July 16-29.....	6	2	
Ilo.....	July 15.....			Do.
Pescadores Islands.....	June 27-July 3....	4		From s. s. Lodore.
Piura, department.....	June 18-Sept. 23....	46	33	
Paita.....	June 20-July 15....			Present.
Russia:				
Kirgisenaul.....	Aug. 5-8.....	19	18	In the Ural district to Aug. 14 22 deaths.
Siam:				
Bangkok.....	Apr. 25-Aug. 28....	22	22	
Trinidad:				
Port of Spain.....	June 13-July 18....	6	5	
Turkey in Asia:				
Adalia.....	June 25-July 29....	5	3	
Beirut.....	June 25-July 4....	1		In Harrett Aryk.
Uruguay:				
Montevideo.....	May 1-June 30....		2	
Venezuela:				
Caracas.....	June 18-Aug. 16....	13	3	
Zanzibar.....	July 14-Oct. 26....	5	5	

SMALLPOX.

Algeria:				
Algiers.....	May 1-Sept. 30....	27	23	
Bona.....	June 1-Sept. 30....	53	28	
Araba:				
Aden.....	Aug. 3-9.....		1	
Argentina:				
Buenos Aires.....	Mar. 1-July 30....		51	
Rosario.....	Apr. 1-July 31....	3	3	
Austria:				
Bohemia.....	Sept. 26-Oct. 2....	1		Imported.
Galicia.....	June 6-July 31....	6		
Silesia.....	June 20-Aug. 7....	17		
Belgium:				
Antwerp.....	July 18-24.....	4		
Brazil:				
Bahia.....	May 22-Oct. 8....	125	65	
Pernambuco.....	Apr. 1-Aug. 31....		93	
Rio de Janeiro.....	May 17-Oct. 10....	90	31	
Santos.....	May 10-16.....		1	
São Paulo.....	May 10-July 18....		12	
Canada:				
British Columbia—				
Vancouver.....	June 1-July 31....	4		
Nova Scotia—				
Halifax.....	June 13-Aug. 7....	5		
Ontario—				
Hamilton.....	Sept. 1-30.....	2		
Quebec—				
Montreal.....	June 17.....			2 cases additional at Grosse Isle on s. s. Virginian.
Ceylon:				
Colombo.....	May 23-29.....	2		
Chile:				
Valparaiso.....	May 16-Aug. 28....			Present.
Santiago.....	May 29-Aug. 21....			Do.
China:				
Amoy.....	June 1-Sept. 11....		32	May 9-15, present.
Eng-Ta-Tau.....	July 1-31.....	9		
Hankow.....	Aug. 21.....	1		Apr. 26-June 12, present among natives.

Cholera, yellow fever, plague, and smallpox, etc.—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Hongkong.....	May 2-June 26....	16	12	
Kang Thau.....	Apr. 1-June 30....	7	1	
Newchwang.....	Aug. 1-14.....	2	1	
Shanghai.....	May 10-Aug. 7....	.....	8	Sept. 25, still present among natives. Sept. 4, one case on s.s. Wilmington.
Tientsin.....	June 27-July 3....	1	2	
Egypt, general.				
Alexandria.....	Apr. 30-Sept. 23....	1,570	367	
Cairo.....	June 1-30.....	3	.....
Suez.....	May 21-Sept. 30....	.....	20	
Suez.....	May 21-July 8....	46	3	
Ecuador:				
Ensenada.....	Aug. 25.....	.....	.....	Epidemic.
Guayaquil.....	June 1-Aug. 10....	3	.....	In July, 4 cases and 1 death in vicinity.
France:				
Bordeaux.....	Sept. 4.....	.....	1	
Marseille.....	June 1-Sept. 30....	.....	7	
Nantes.....	July 1-31.....	1	.....
Paris.....	May 23-Oct. 2....	41	3	
Toulon.....	July 25-31.....	.....	1	
Germany, general.				
Gibraltar.....	May 30-Sept. 25....	23	.....
Gibraltar.....	Aug. 8-Sept. 26....	3	.....
Great Britain:				
Cardiff.....	July 6.....	1	.....
Liverpool.....	June 21-26.....	2	.....	Case, June 22, from s. s. Canada.
London.....	Oct. 3-9.....	1	.....
Greece:				
Athens.....	Sept. 19-25.....	.....	2	
Hungary:				
Budapest.....	Sept. 26-Oct. 2....	2	.....
India:				
Bombay.....	May 26-Oct. 5....	.....	93	
Calcutta.....	May 16-Sept. 4....	.....	128	
Madras.....	May 22-Oct. 1....	.....	21	
Rangoon.....	May 12-Sept. 25....	.....	30	
Indo-China:				
Saigon.....	May 9-Aug. 7....	21	20	
Italy, general.				
Genoa.....	May 31-Oct. 17....	303	.....
Genoa.....	June 1-Oct. 15....	21	.....
Naples.....	May 31-Oct. 17....	320	55	
Ottiana.....	June 23.....	1	.....
Rome.....	Mar. 7-13.....	1	1	
Japan:				
Formosa.....	June 13-19.....	1	.....
Moji.....	June 6.....	1	.....	From s. s. Selja.
Osaka.....	Jan. 1-May 31....	3	.....
Yokohama.....	June 1-7.....	1	.....
Java:				
Batavia.....	May 6-Sept. 11....	31	1	
Malta:				
Valetta.....	Sept. 11-18.....	3	.....
Mauritius:				
Port Louis.....	Apr. 1-30.....	1	1	
Mexico:				
Aguaascalientes.....	June 21-27.....	.....	1	
Chihuahua.....	Aug. 16-22.....	1	.....
Guadalajara.....	June 11-Sept. 9....	.....	4	
Medellin.....	Oct. 24.....	.....	.....	Present in vicinity.
Mexico.....	May 16-Oct. 9....	.....	89	
Monterey.....	June 14-Oct. 24....	.....	29	
Soledad.....	Oct. 24.....	3	.....
Veracruz.....	June 1-Oct. 26....	27	6	Aug. 12-Oct. 2, 7 cases imported from Medellin. Oct. 26, 1 case from Orizaba and 1 case on s. s. Montevideo.
Newfoundland:				
St. Johns.....	Sept. 4.....	3	.....
Norway, general.				
Panama:	Apr. 1-May 30....	3	.....
Canal Zone—				
Ancon.....	Mar. 1-31.....	1	.....	At Culebra Island quarantine station; from a vessel.
Persia:				
Khorrassan.....	June 1-30.....	.....	.....	Epidemic.
Kurdistan.....	June 1-30.....	.....	.....	Do.
Mazanderan.....	July 1-31.....	.....	.....	Do.
Meshed-i-Sur.....	June 1-30.....	.....	.....	Epidemic in vicinity.
Shiraz.....	May 1-31.....	.....	.....	Present.
Turbat-i-Haidari.....	May 1-31.....	.....	.....	Do.

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.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.			
Lubeck.....	Oct. 9	97,000	27	5													
Do.....	Oct. 16	97,000	29	3						1				2			
Lyons.....	Oct. 2	472,114	129	22						1							
Magdeburg.....	Oct. 9	250,488	70	9													
Do.....	Oct. 2	250,488	58	6													1
Malta.....	Oct. 9	212,888	101	7													
Managua.....	do.....	22,278	15	3													
Manaos.....	Oct. 2	52,000	33	13													
Manchester.....	Oct. 16	631,533	177							1		2	3	3			1
Mannheim.....	Oct. 2	184,152	43	7						1							
Matamoros.....	Oct. 23	8,000	1														
Mazatlan.....	Oct. 16	22,000	31														
Moncton.....	Oct. 23	13,500	5	1									1				
Monterey.....	Oct. 17	13,500	57	1					1								
Montreal.....	Oct. 23	389,837	151	11						6		35	2	2			
Moscow.....	Oct. 2	1,500,000	1,044	78					3	1	8	1	2	10			18
Munich.....	do.....	566,000	172	19								1					6
Nantes.....	Oct. 4	161,908	52	12													
Do.....	Oct. 11	161,908	50	9													
Do.....	Oct. 17		40	10													
Naples.....	Oct. 9	593,729	307									1	1				
Do.....	Oct. 16		277									1	1				
Newcastle on Tyne.....	do.....	281,584	73							1			1	4			
Nottingham.....	Oct. 9	260,000	70														2
Nuevo Laredo.....	Oct. 23	8,000	4	2													
Nuremberg.....	Oct. 9	316,180	90	6													1
Palermo.....	Oct. 2	335,000	136	7						3					1		
Do.....	Oct. 9		140	7										1			1
Para.....	Oct. 2	185,000	73	10			4										
Do.....	Oct. 9		78	4													
Paris.....	do.....	2,776,399	774	141							5		5	11			
Penang.....	Sept. 18	102,520	61	8													
Plymouth.....	Oct. 16		22														
Port Elizabeth.....	Oct. 2	32,959															
Prague.....	Oct. 9	229,965	78	20							1		4				1
Rio de Janeiro.....	Sept. 26	811,443	220	56		1											
Santa Cruz de Teneriffe.....	Oct. 9	46,000	14	3													
Santiago.....	Oct. 16	53,614	17	1													
Do.....	Oct. 23		16	1													
Schiedam.....	Oct. 16	31,863	8														
Shanghai.....	Sept. 11	565,000	304	16								1					
Do.....	Sept. 18		300	27													
Sheffield.....	Oct. 9	472,000	100	9									1		1		
Do.....	Oct. 16		100	6						1	1	2					
Singapore.....	Sept. 18	271,060	233	26			1										
Southampton.....	Oct. 16	124,667	30	3													
Stettin.....	Oct. 9	230,000	82	11										1			
Swatow.....	Aug. 28	35,000	2				2										
Tientsin.....	Oct. 6		7	2													
Do.....	Sept. 18		15	4													
Do.....	Sept. 25		14	4													
Trieste.....	Oct. 9	219,777	109														
Turin.....	Oct. 7	381,439	103	9							3			1			
Furks Island.....	Oct. 9	1,600	2														
Valencia.....	do.....	214,000	69	15							3						
Valetta.....	Oct. 2	212,888	94	4							1						
Veraacruz.....	Oct. 16		36	7					2								
Victoria.....	do.....	35,000	4														
Vienna.....	Oct. 9	2,085,888	554	81							2	5	3	3			1
Vigo.....	do.....	40,000	11	3							1						
Vladivostok.....	Sept. 13	85,004	35	1													
Do.....	Sept. 21	85,004	32	1							2						
Winnipeg.....	Oct. 23	122,000	26	3			4						1				

The following cases of, and deaths from, smallpox, yellow fever, cholera, and plague have been reported to the Surgeon-General, Public Health and Marine-Hospital Service, during the week ended November 12, 1909:

SMALLPOX—UNITED STATES.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile.....	Oct. 17-23.....	1		
Georgia:				
Macon.....	Oct. 16-31.....	3		
Illinois:				
Chicago.....	Oct. 24-30.....	2		
Indiana:				
Muncie.....	Oct. 1-31.....	9		
Kansas:				
Labette County—				
Parsons.....	Sept. 1-30.....	1		
Scott County.....	do.....	1		
Shawnee County—				
Topeka.....	do.....	2		
Louisiana:				
New Orleans.....	Oct. 1-30.....	1		
Michigan:				
Saginaw.....	Oct. 10-16.....	3		
Montana:				
Dawson County.....	Sept. 1-30.....	2		
Silver Bow County.....	do.....	1		
New York:				
Buffalo.....	Oct. 24-30.....	2		
Ohio:				
Springfield.....	Oct. 17-30.....	6		
Oregon, general.....	July 1-31.....	21		
Portland.....	Aug. 1-31.....	15		
Portland.....	Sept. 1-30.....	8		
Texas:				
San Antonio.....	Oct. 1-30.....	1		
Utah, general.....	Sept. 1-30.....	59		
Wisconsin:				
La Crosse.....	Oct. 24-30.....	1		

SMALLPOX—FOREIGN.

Brazil:				
Bahia.....	Sept. 25-Oct. 8.....	25	15	
Pernambuco.....	Aug. 16-31.....		11	
Rio de Janeiro.....	Sept. 27-Oct. 10.....	3		
China:				
Shanghai.....	Sept. 25.....			Present among natives.
Great Britain:				
London.....	Oct. 3-9.....	1		
India:				
Bombay.....	Sept. 29-Oct. 5.....		4	
Madras.....	Sept. 25-Oct. 1.....		2	
Bangoon.....	Sept. 19-25.....		1	
Italy, general.....	Oct. 11-17.....	37		
Genoa.....	Oct. 1-15.....	1		
Naples.....	Oct. 11-17.....	4		
Mexico:				
Medellin.....	Oct. 18-24.....			Present in vicinity.
Monterey.....	do.....		1	
Soledad.....	do.....	3		
Veracruz.....	Oct. 24-26.....	10		One case from Orizaba. Oct. 28 1 case on s. s. Montevideo.
Russia:				
Moscow.....	Oct. 3-9.....	2		
Odessa.....	do.....	12	5	
Riga.....	Oct. 3-10.....	1		
Warsaw.....	Sept. 5-11.....		2	
Spain:				
Almeria.....	Sept. 1-30.....		3	
Barcelona.....	Oct. 12-18.....		4	
Huelva.....	Sept. 1-30.....		14	
Valencia.....	Oct. 9-16.....	1		
Vigo.....	do.....		1	
Uruguay:				
Montevideo.....	Aug. 1-31.....		8	

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Belgium:				
Boom.....	Oct. 26-30.....	9	6	Vicinity of Antwerp.
China:				
Amoy.....	Sept. 19-25.....		22	
Shanghai.....	Sept. 25.....			Present among natives.
Germany:				
Andreschen.....	Nov. 1.....	3		
Heydekrug.....	do.....	1		
Ladian district.....	do.....	3		
Niederung district.....	do.....	3		
India:				
Bombay.....	Sept. 29-Oct. 5.....		6	
Rangoon.....	Sept. 12-25.....		10	
Java:				
Batavia.....	do.....	200	100	
Russia:				
St. Petersburg.....	Oct. 9-15.....	266	111	
Moscow.....	Oct. 3-9.....		1	
Riga.....	Oct. 10-16.....	4	2	

YELLOW FEVER.

Brazil:				
Para.....	Oct. 9-16.....	4	2	
Pernambuco.....	Aug. 16-31.....		1	
Mexico:				
Merida.....	Oct. 20-21.....	2	1	

PLAGUE—UNITED STATES.

California:				
Contra Costa County— Oakland.....	Oct. 26.....	1		

PLAGUE—FOREIGN.

Brazil:				
Bahia.....	Sept. 25-Oct. 8.....	18	13	
Rio de Janeiro.....	Oct. 3-10.....	1		
China:				
Amoy.....	Sept. 19-25.....		38	
Japan:				
Kobe.....	Sept. 26-Oct. 2.....	7	3	
India, general.....	Sept. 19-25.....	4,657	3,595	
Bombay.....	Sept. 29-Oct. 5.....		15	
Rangoon.....	Sept. 12-25.....		5	

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,
United States Public Health and Marine-Hospital Service.