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THE STRAW ITCH (DERMATITIS SCHAMBERGI): A DISEASE NEW TO AMERICAN PHYSICIANS.

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INTRODUCTION.

Investigations carried on within the last year have demonstrated the occurrence within the United States of a peculiar itching eruptive disease which has been proven to be due to the attack of a small straw and grain infesting mite. It has been shown that the presence of the mite in the straw or grain is dependent on the occurrence in the straw or the grain of certain insect parasites upon which the mite preys. To the farmer this mite is ordinarily beneficial in that by preying on the insect parasites of wheat the damage to his crops by these is minimized. When, however, the mite becomes excessively abundant it will, when the opportunity presents, attack not only the laborer in the field or the thrasher in the barn, but also the unsuspecting dweller in some distant city who tries to sleep on the straw which he has perhaps purchased in the form of a straw mattress. Because of the wide variety of uses to which straw is put, the distribution of the mite and the dermatitis that it may cause are very extensive and are therefore of great practical importance, not only to the farmer but to the physician and sanitarian.

In recognition of this, Prof. F. M. Webster, who is in charge of cereal and forage insect investigations of the Bureau of Entomology, has written a very comprehensive brochure treating of the subject, however, more particularly from the standpoint of the entomologist and for the farmer. As the matter is new to the physicians of the United States, and there is reason to believe that the depredations of the mite are likely to be increasingly conspicuous this spring and summer and probably for years to come, it seems desirable to present to the attention of physicians and sanitarians a brief summary of the knowledge of the subject.

THE DISEASE.

Synonyms.—*Urticarioid dermatitis* (Goldberger and Schamberg, 1909); *Dermatitis ditropenotus aureoviridis* (Rawles, 1909); Straw itch (Rawles, 1909); *Acardo-dermatitis urticarioides* (Schamberg, 1910); Grain itch (Schamberg, 1910); Schamberg's disease; Straw-mattress disease (in Philadelphia).

History and etiology.—The occurrence of a disease similar to the one under discussion has several times been recorded in the European medical press in the course of the last fifty or sixty years, and its association with a mite noted. In the United States, however, the disease was not recognized until 1901, when it was briefly described by Schamberg^a without, however, recognizing its etiology. This remained obscure until 1909, when the writer^b in cooperation with Professor Schamberg, while investigating an epidemic of apparently the same disease, demonstrated experimentally the etiologic rôle of a small, almost microscopic, straw-infesting mite, very close to if not identical with *Pediculoides ventricosus*.^c

The paper reporting this investigation and the press notices that the investigation received brought the writer communications from New Jersey, Maryland, Pennsylvania, Ohio, and Indiana, indicating the occurrence during the same or previous seasons of a similar if not identical itching eruptive disease in various localities in these States. In Hantertown, Ind., and vicinity an outbreak of an eruptive disease identical with that reported by Schamberg and myself was carefully studied by Dr. Lyman T. Rawles, who published his observations in August, 1909, in the Journal of the Indiana State Medical Association.

Following the appearance of the paper by Goldberger and Schamberg, Prof. F. M. Webster^d of the Bureau of Entomology, took up the subject with the view of determining the cause of the presence of the mite in the straw. Professor Webster's experience and previous studies in this special field at once led him to suspect—and his investigation soon confirmed this suspicion—that the presence of this mite is dependent on the presence in the straw or grain of the host insect on which it preys. In nature the mite attacks and feeds on the soft-bodied larvae or adults of any one of several species of insects, some of which, such as the wheat-straw worm (*Isosoma grande* Riley), the joint worm (*Isosoma tritici* Fitch), and the Angoumois grain moth (*Sitotroga cerealella*), attack the stems and the grain of wheat. Accordingly its distribution is at least coextensive with the distribution of these insect parasites of the wheat, which is equivalent to saying that it is at least coextensive with the wheat-growing area of the United States (and of the world).

Now, when it is recalled that the wheat straw does not all remain to be consumed where it is grown, but, on the contrary, is shipped considerable distances to supply the various demands of industry and manufacture, it can be readily understood that there is hardly any geographical limit to the distribution of the mite or of the dermatitis which its attack on man may induce, and it may therefore present itself for diagnosis not only to the rural practitioner, but also to his urban brother.

The mite, the results of the activities of which are under discussion, is an acarine belonging to the family *Tarsonemidæ*, and known as

^a Schamberg, Jay F.; An epidemic of a peculiar and unfamiliar disease of the skin; Phila. Med. Journ., July 6, 1901.

^b Goldberger, Joseph, and Schamberg, Jay F.; Epidemic of an urticarioid dermatitis due to a small mite (*Pediculoides ventricosus*) in the straw of mattresses, Public Health Reports, Washington, 1909, July 9, Vol. XXIV. No. 28.

^c Should not be confused with *Pediculosis vestimenti*, the body louse.

^d Webster, F. M.; A predaceous mite proves noxious to man; Circular No. 118, Bureau of Entomology, April 23, 1910.

Pediculoides ventricosus (figs. 1 and 2). It is kin to the better known trombidids, or "harvest mites," certain larval forms of which, particularly known as the "red bug" (fig. 3) (*Leptus autumnalis*) may also attack man, also to the itch mite, *Sarcoptes scabiei* (figs. 4 and 5), of the family *Sarcoptidae*, and more distantly to the ticks, which are acarines belonging to the group *Ixodoidea*.

The young adult, *P. ventricosus*, is almost microscopic in size; the male remains small, but the female when pregnant, develops a relatively enormously distended abdomen. The gravid female therefore has the appearance of a yellowish-white globular body not unlike a minute egg. The swelling of the abdomen is due to the development within it of large numbers of young, which emerge sexually mature and with the four pairs of limbs characteristic of adult acarines fully developed. The new generation consists almost entirely of females, and it is these young females that do the damage under discussion.

The development of the eggs in the pregnant female is of course dependent on temperature. During the cold weather they remain dormant, but in spring, with the return of warm weather, the development proceeds and the mites begin to multiply both in the stubble in the fields and in the stored straw or grain. When their food supply is abundant, that is, when the wheat, stalk or grain, is excessively parasitized, the mites may literally swarm, and in the summer may seriously interfere with the harvesting or thrashing, and, in the succeeding spring, with the handling of the grain or the customary uses of the straw. When persons (and probably also animals) come in contact with such infested straw or grain, whether in the field or in the barn or storehouse, or whether as packing stuff or in mattresses, provided the weather is sufficiently warm, they are attacked by the swarming voracious mites. These attach themselves to skin by means of the sucking disks and claws with which the feet are provided, and while attempting to obtain nutriment inject into the skin some irritating

poisonous substance resulting in the production of local and sometimes constitutional symptoms.

Symptoms.—Within twelve to sixteen hours after exposure the first and invariable symptom, itching, appears; in severe cases, and especially where the cause is not suspected or recognized and the

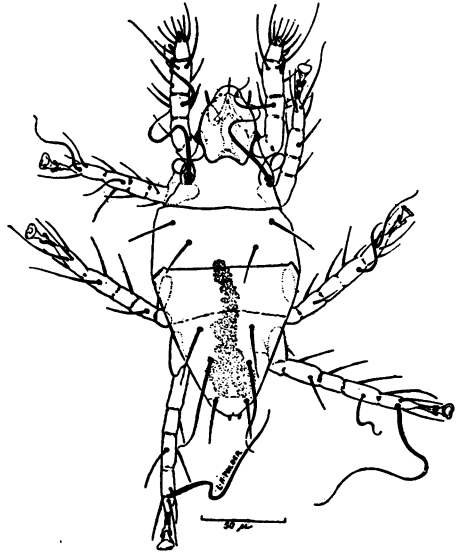


FIG. 1.—*Pediculoides ventricosus*. Young female isolated from siftings of a straw mattress. Enlarged. Original.

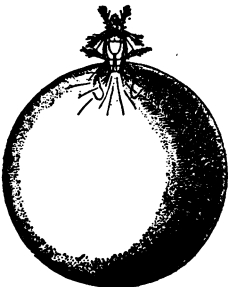


FIG. 2.—*Pediculoides ventricosus*. Gravid female. Enlarged. (After Banks, 1904.)

exposure is continued night after night by sleeping on an infested straw mattress, for example, the itching may become almost intolerable. The eruption appears simultaneously with the itching, and

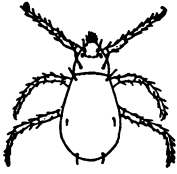


FIG. 3.—A "harvest mite" or "red bug." The larvæ (*Leptus*) of a trombidium. Enlarged. (After Banks, 1904.)

characteristically consists of wheals surmounted by a vesicle (figs. 6 and 7). The vesicle as a rule does not exceed a pin head in size, but it may become as large as a lentil seed or pea. Its contents very rapidly become turbid, and the vesicle is converted in a few hours into a pustule. Instead of frank wheals there may be erythemato- or papulo-urticarial lesions. The lesions are irregularly circular or oval in outline, from a lentil to a finger nail in size, and usually of a warm rose tint. The pinkish-white anemic area of ordinary "hives" is rare. The eruption is most abundant on the trunk, slight on the face and extremities, and practically absent from the feet and the hands. Even when experimentally exposed to attack, the limbs, for some reason, largely or altogether escape. The onset in severe cases may be marked by chilliness, nausea, and vomiting, followed for a few days by a slight elevation of temperature with the appearance of albumin in the urine. In the less severe types there may be only some diminution of appetite and malaise, or, finally, a constitutional reaction may be altogether absent.

The mite, as has already been stated, attaches itself to the skin of its host, but is easily brushed off or crushed. Accordingly, the symptoms rapidly subside, and all signs of the eruption will have faded away in a week or ten days, even without treatment, after contact with the infested grain or straw is discontinued. Where, however, the cause is not recognized, the patient will continue to suffer in spite of all treatment until the mites have all hatched out and have died, a period of from three to seven weeks in Schamberg's ^a experience.

Diagnosis.—The peculiarities of the eruption above described are sufficiently characteristic for its recognition. A history of contact with grain or straw or the use of a new straw mat-

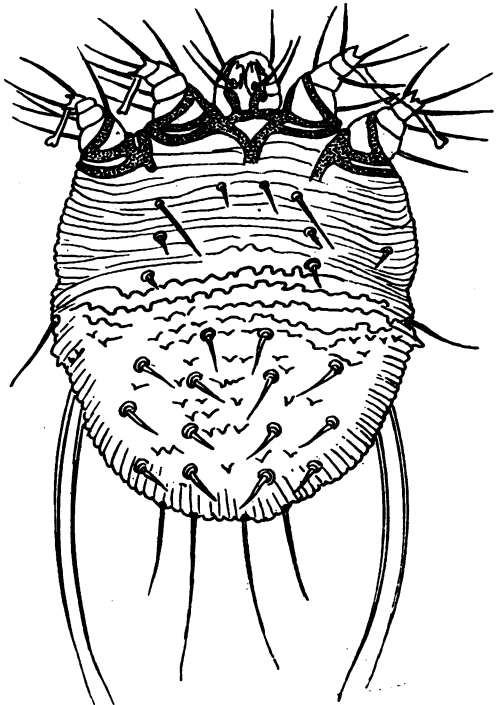


FIG. 4.—The "itch" mite, *Sarcoptes scabiei*. Female, dorsal aspect. 200/1. (From Braun, after Fuerstenberg.)

^a Schamberg, Jay Frank; Grainitch (*Acaro-dermatitis urticarioides*); A study of a new disease in this country: Journ. Cutaneous Dis., February, 1910.

dress is always obtainable and confirms the diagnosis. The lesion should be scraped and the scrapings examined under the lower powers of the microscope. This may disclose the presence of the mite and so clinch the diagnosis. As, however, *P. ventricosus* does not burrow and is likely to be brushed off by the friction of the clothes, examination of the scrapings may be negative.

It seems almost certain that this disease has for many years escaped recognition because of its confusion with "chiggers," scabies, and the common "hives." "Chiggers"^a is the vernacular name for the itching eruption induced by the attack of the "red bug," the larval form of some one of several species of Trombidiids or "harvest mites" of the genus *Leptus*. These larval mites tend to bore into the skin, and because of their red color and size can be detected by the naked eye in the lesion or scrapings. There should therefore be no difficulty in making the distinction.

The differentiation from the "itch" or scabies can be made clinically by attention to the history and to the character and distribution of the lesions. The itch mite burrows in the skin, and even to the untrained eye differs markedly from *P. ventricosus* in appearance.

The lesion of urticaria, ordinary "hives," is without the central vesicle or pustule. This alone is sufficiently distinctive to prevent confusion.

Difficulties of diagnosis from chicken pox or smallpox may occasionally arise. Attention, however, to the history, the character of the onset, and to the character and distribution of the eruption should make the distinction clear. Practically, because of ignorance of the disease or from interested motives, there is probably more danger of mistaking smallpox for this dermatitis. Proper consideration of the points above set forth should leave no excuse for this dangerous blunder.

Treatment.—As has already been indicated, the *P. ventricosus* does not bore into the skin. Its attachment to the surface being feeble, it is readily brushed off by the friction of the clothes; local antiparasitic treatment is therefore hardly necessary. If desired, however, a mild sulphur ointment will answer this purpose. Antipruritic treat-

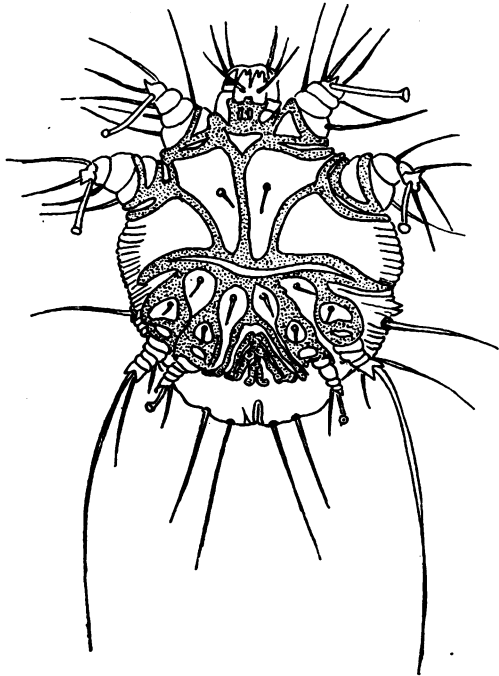


FIG. 5.—The "itch" mite, *Sarcoptes scabei*. Male, ventral aspect. 200/1. (From Braun, after Fuerstenberg.)

^a This name is applied also in tropical countries to the condition induced by the attack of the sand flea, *Sarcopsylla penetrans*.

ment is always called for; warm, mildly alkaline baths or some simple soothing ointment, such as zinc oxide, will be found to fulfill this indication. Of course, contact with the suspected straw or grain must be discontinued. The clothes and body linen must be changed, but as Mr. V. L. Wildermuth^a has shown that the mite can not survive more than a day without food, airing them for a day or so will be sufficient to free them from danger.

Prevention.—The measures in which the sanitarian is primarily interested relate to the destruction of the mite and the prevention of the trouble produced by it. These measures may be grouped under two heads, immediate and remote. Under the former may be considered insecticides, such as heat and fumigation with sulphur or formaldehyde. Advantage may be taken of some of the cited facts in the life history of the mite to destroy it by starvation. This may be accomplished by storing the straw or grain at summer temperature, or its practical equivalent, sunning and airing during summer weather. In this way rapid multiplication of the mite and development to maturity and escape of the insects on which it preys are promoted, with a consequent rapid exhaustion of its food supply, and thus its eventual rapid starvation and destruction. These measures are applicable, of course, only to the harvested wheat (straw or grain). To the farmer and farm laborer they are of only secondary importance; these wish to know primarily how they may protect themselves when harvesting the crop and secondarily how they may protect the purchaser of the grain or straw. When there is reason to suspect that the wheat is infested, the farm laborer when harvesting or threshing may protect himself to some degree at least, it appears to me, by anointing his body freely with some bland oil or grease, followed by a change of clothes and a bath as soon as his work is done. This, however, does not go to the root of the problem. We are therefore brought to a consideration of the remote measures aimed at the destruction of the mite. These are really the more fundamental and the more important. They have in view the diminution in the numbers of the insect parasites of the wheat, the prey of the mite, on the presence of which the presence of the mite itself is dependent.

The work of Professor Webster indicated that these measures would demand certain changes in agricultural methods. It is not my purpose to discuss these, preferring to refer those who are interested in this important phase of the subject to Professor Webster's brochure already cited, which may be obtained free on application to the United States Bureau of Entomology, Washington, D. C.

^a See Webster, F. M., *supra*, p. 23.

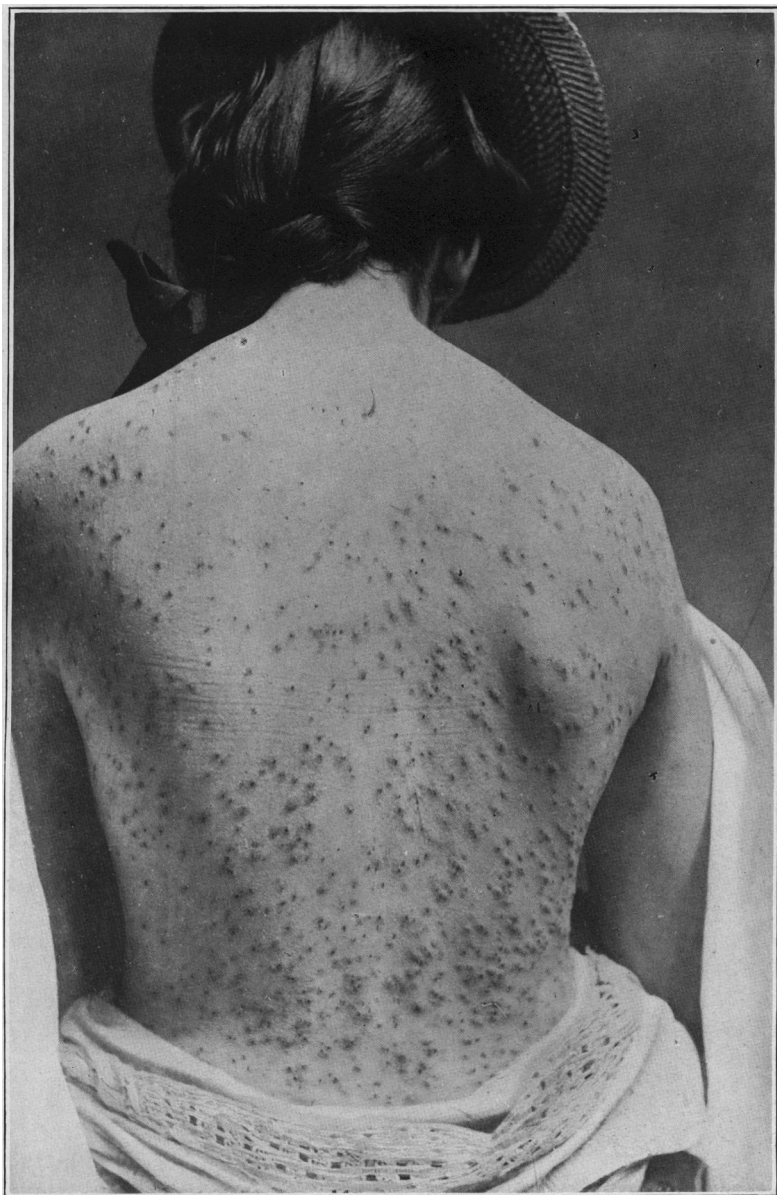


FIG. 6.—DERMATITIS SCHAMBERGI. VESICULO-PUSTULOSA TYPE.
(After a photograph by Schamberg.)



FIG. 7.—DERMATITIS SCHAMBERGI. TYPE SIMULATING VARICELLA.

(After a photograph by Schamberg.)

UNITED STATES.

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

PLAGUE-PREVENTION WORK.

INFECTED GROUND SQUIRRELS.

Four plague-infected ground squirrels have been reported found in California as follows: In San Benito County 2, 1 found on May 11 and 1 on May 18, 1 in Santa Cruz County found May 9, and 1 in Stanislaus County found May 19.

An infected ground squirrel was previously found in San Benito County, October 15, 1909, and 1 in Santa Cruz County November 6, 1909. No plague infection had been previously found in Stanislaus County.

Passed Assistant Surgeon McCoy reports:

SAN FRANCISCO, CAL.

Last case of human plague sickened January 30, 1908. Last case of rodent plague trapped October 23, 1908. Total number of rats found infected to date, 398.

Week ended May 21, 1910. Premises inspected, 4,728. Houses destroyed, 13. Nuisances abated, 591. Poisons placed, 6,112. Rats trapped, 2,215. Rats found dead, 35. Gophers trapped, 11. Squirrels trapped, 1. Rats identified, 2,250, as follows: *Mus norvegicus*, 1,684; *Mus rattus*, 64; *Mus musculus*, 368; *Mus alexandrinus*, 134. Average number of traps set daily, 7,583. Examined bacteriologically, 1,549 rats, 9 gophers, 1 squirrel. No plague infection found.

BERKELEY, CAL.

There is no record of rodent plague in Berkeley. The last case of human plague sickened August 28, 1907.

Week ended May 21, 1910. Rats trapped, 11. Rats identified, 11, all being *Mus norvegicus*. Rats examined bacteriologically, 11. No plague-infected rats found.

OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last case of rodent plague found December 1, 1908.

Week ended May 21, 1910. Rats found dead, 38. Rats trapped, 556. Rats identified, 594, as follows: *Mus norvegicus*, 508; *Mus musculus*, 85; *Mus alexandrinus*, 1. Rats examined bacteriologically, 509. No plague-infected rats found.

ALAMEDA COUNTY, CAL. (Exclusive of the City of Oakland).

Last case of human plague sickened 2 miles southwest of Sunol, September 26, 1909. Last case of rodent plague found March 25, 1910. To the present time 76 ground squirrels and 1 wood rat have been found infected.

Week ended May 21, 1910. Ranches inspected, 12. Ground squirrels shot, 27; found dead, 1; trapped, 2. Acres covered with poison, 74. Ground squirrels examined bacteriologically, 24. No plague-infected squirrels found.

MONTEREY COUNTY, CAL.

There is no record of human or rodent plague in Monterey County.

Week ended May 21, 1910. Ranches inspected, 33. Ground squirrels shot, 829; found dead, 2. Ground squirrels examined bacteriologically, 806. No plague-infected squirrels found.

NAPA COUNTY, CAL.

There is no record of human or rodent plague in Napa County.

Week ended May 21, 1910. Ranches inspected, 2. Ground squirrels shot, 11. Ground squirrels examined bacteriologically, 11. No plague-infected squirrels found.

SAN BENITO COUNTY, CAL.

There is no record of human plague in San Benito County. The last plague-infected rodent was found May 18, 1910. Total number of ground squirrels found infected to date, 3.

Week ended May 21, 1910. Ranches inspected, 36. Ground squirrels shot, 468; found dead, 4. Ground squirrels examined bacteriologically, 472. Two infected squirrels found.

One plague-infected squirrel was found May 11, at Dunn Ranch, Hollister, and 1 May 18, at San Luis Ranch, Hollister.

SAN JOAQUIN COUNTY, CAL.

There is no record of human or rodent plague in San Joaquin County.

Week ended May 21, 1910. Ranches inspected, 45. Ground squirrels shot, 657; found dead, 1. Rabbits shot, 1. Examined bacteriologically, 643 squirrels and 1 rabbit.

SAN LUIS OBISPO COUNTY, CAL.

There is no record of human plague in San Luis Obispo County. A plague-infected rodent was found January 29, 1910.

Week ended May 21, 1910. Ranches inspected, 14. Ground squirrels shot, 399. Rabbits shot, 7. Examined bacteriologically, 384 squirrels and 7 rabbits. No plague infection found.

SAN MATEO COUNTY, CAL.

There is no record of human or rodent plague in San Mateo County.

Week ended May 21, 1910. Ranches inspected, 11. Ground squirrels shot, 276. Ground squirrels examined bacteriologically, 261. No plague-infected squirrels found.

SANTA CLARA COUNTY, CAL.

There is no record of human plague in Santa Clara County. The last plague-infected rodent was found November 3, 1909. Total number of ground squirrels found infected to date, 9.

Week ended May 21, 1910. Ranches inspected, 15. Ground squirrels shot, 397. Ground squirrels examined bacteriologically, 381. No plague-infected squirrels found.

SANTA CRUZ COUNTY, CAL.

There is no record of human plague in Santa Cruz County. The last plague-infected rodent was found May 9, 1910. Total number of ground squirrels found infected to date, 2.

Week ended May 21, 1910. Ranches inspected, 18. Ground squirrels shot, 106. Ground squirrels examined bacteriologically, 106. One plague-infected squirrel found.

The plague-infected ground squirrel was found May 9, 1910, at McGrath ranch, Watsonville.

STANISLAUS COUNTY, CAL.

There is no record of human plague in Stanislaus County. A plague-infected rodent was found May 19, 1910.

Week ended May 21, 1910. Ranches inspected, 9. Ground squirrels shot, 353. Ground squirrels examined bacteriologically, 349. One plague-infected squirrel found.

The plague-infected squirrel was found May 19 at Mills ranch, Crows Landing.

Assistant Surgeon Chapin reports:

SEATTLE, WASH.

No case of human plague since October 30, 1907. The last plague-infected rat was found February 8, 1910. Total number of plague-infected rats to date, 22.

Rats received, 941. Rats necropsied, 748. No plague-infected rats found.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended June 10, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham	May 15-28	9		
Montgomery	May 22-28	7		
California:				
San Francisco quarantine	May 27	2		From S. S. Korea.
District of Columbia	May 22-28	3		
Florida:				
Duval County	May 22-28	2		
Louisiana:				
New Orleans	May 22-28	25		
Minnesota, general	Feb. 1-28		1	
Hennepin County	Feb. 1-28		1	
Winona County	Feb. 1-28		1	
Aitkin County	May 10-31	3		
Bigstone County	May 24-31	2		
Blue Earth County	May 24-31	1		
Carver County	May 24-31	1		
Chicago County	May 24-31	1		
Fillmore County	May 3-9	10		

SMALLPOX IN THE UNITED STATES—Continued.
Reports Received During Week Ended June 10, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Minnesota—Continued.				
Goodhue County.....	May 24-31.....	1		
Grant County.....	May 3-9.....	1		
Hennepin County.....	May 3-23.....	39		
Pope County.....	May 3-9.....	1		
Ramsey County.....	May 10-31.....	22		
Rice County.....	May 3-31.....	6		
St. Louis County.....	May 3-9.....	19		
Wabasha County.....	May 17-23.....	1		
Waseka County.....	May 24-31.....	1		
Washington County.....	May 10-16.....	1		
Winona County.....	May 3-31.....	2		
Missouri:				
St. Louis.....	May 22-28.....	1		
New York:				
Allegany County.....	April 1-30.....	1		
Chenango County.....	April 1-30.....	1		
Erie County.....	April 1-30.....			
Tonawanda City.....	April 1-30.....	2		
Herkimer County.....	April 1-30.....	3		
Jefferson County.....	April 1-30.....	6		
Lewis County.....	April 1-30.....	1		
Oswego County.....	April 1-30.....	1		
St. Lawrence County.....	April 1-30.....	36		
Suffolk County.....	April 1-30.....	5		
Ulster County.....	April 1-30.....	1		
Erie County—				
Buffalo.....	May 1-31.....	5		
Jefferson County.....	May 1-31.....	2		
Lewis County.....	May 1-31.....	1		
Niagara County.....	May 1-31.....	3		
Orleans County.....	May 1-31.....	1		
St. Lawrence County.....	May 1-31.....	9		
Schenectady County.....	May 1-31.....	1		
North Dakota:				
Cass County.....	Apr. 1-30.....	4		
Oregon:				
Baker County.....	Jan. 1-31.....	13		
Linn County.....	Jan. 1-31.....	7		
Multnomah County.....	Jan. 1-31.....	2		
Umatilla County.....	Jan. 1-31.....	13		
Wasco County.....	Jan. 1-31.....	1		
Harney County.....	Feb. 1-28.....	6		
Jackson County.....	Feb. 1-28.....	1		
Linn County.....	Feb. 1-28.....	5		
Marion County.....	Feb. 1-28.....	7		
Multnomah County.....	Feb. 1-28.....	5		
Union County.....	Feb. 1-28.....	3		
Wasco County.....	Feb. 1-28.....	2		
Yamhill County.....	Feb. 1-28.....		1	
Josephine County.....	Mar. 1-31.....	1		
Linn County.....	Mar. 1-31.....	5		
Marion County.....	Mar. 1-31.....	2		
Multnomah County.....	Mar. 1-31.....	8		
Union County.....	Mar. 1-31.....	3		
Wasco County.....	Mar. 1-31.....	6		
Yamhill County.....	Mar. 1-31.....	4		
Pennsylvania, entire State.....	Mar. 1-31.....	8		
Tennessee:				
Chattanooga.....	May 22-28.....	3		
Knoxville.....	May 22-28.....	4		
Shelby County.....	Jan. 1-31.....		3	
	Feb. 1-Mar. 31.....	35	1	
	Apr. 1-30.....	51		
Memphis.....	May 22-28.....	4		

Smallpox on Steamship Korea at San Francisco Quarantine.

Passed Assistant Surgeon Trotter reports, May 28:

The steamship *Korea* arrived May 27 with 2 cases of smallpox and history of a previous case landed at Nagasaki. Cabin passengers vaccinated and released; personnel bathed and vaccinated and effects disinfecting. Vessel disinfected. The 2 cases of smallpox and 37 steerage and 69 second-cabin passengers detained at station.

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	Jan. 9-May 15....	61		
Mobile.....	Jan. 16-May 14....	38		
Montgomery.....	Dec. 19-May 21....	488	1	
Total for State.....		587	1	
Arkansas:				
Argenta.....	Jan. 22-Feb. 12....	11		
Little Rock.....	Jan. 1-Mar. 12....	92		
Lonoke.....	Jan. 6-20.....	2		
Monticello.....	Year 1909.....	60		
Total for State.....		165		
California:				
Berkeley.....	Dec. 26-May 7....	2		
Los Angeles.....	Jan. 12-May 7....	13		
Oakland.....	Dec. 26-Jan. 1....	1		
Sacramento County.....	Jan. 1-31.....		1	
Sacramento.....	Dec. 12-Mar. 31..	56		
San Francisco.....	Dec. 19-May 13..	28		
Total for State.....		100	1	
Colorado, general.....				
Adams County.....	Mar. 1-Apr. 30....		3	
Archuleta County.....	Mar. 1-Apr. 30....	3		
Bent County.....	Apr. 1-30.....	1		
Boulder County.....	Feb. 1-28.....	10		
Boulder.....	Apr. 1-30.....	1		
Chaffee County.....	Dec. 19-25.....	1		
Clear Creek County.....	Jan. 1-31.....	6		
Conejos County.....	Mar. 1-31.....	1		
Delta County.....	Jan. 1-Apr. 30....	68		
Denver County.....	Mar. 1-Apr. 30....	2		
Fremont County.....	Jan. 1-Apr. 30....	64		
Garfield County.....	Feb. 1-28.....	14		
Gunnison County.....	Jan. 1-31.....	1		
Huerfano County.....	Apr. 1-30.....	8		
Jefferson County.....	Jan. 1-Apr. 30....	28		
La Plata County.....	Feb. 1-Apr. 30....	5		
Larimer County.....	Feb. 1-28.....	4		
Las Animas County.....	Jan. 1-31.....	4		
Logan County.....	Jan. 1-Apr. 30....	28		
Mesa County.....	Jan. 1-Feb. 28....	17		
Fruita district.....	Jan. 1-Apr. 30....	6		
Mineral County.....	Dec. 26-Jan. 1....	3		
Montrose County.....	Apr. 1-30.....	1		
Morgan County.....	Jan. 1-Apr. 30....	87		
Otero County.....	Jan. 1-Apr. 30....	29		
Ouray County.....	Jan. 1-Apr. 30....	2		
Pitkin County.....	Jan. 1-Feb. 28....	13		
Prowers County.....	Feb. 1-Mar. 31....	9		
Pueblo County.....	Mar. 1-31.....	9		
Rio Grande County.....	Feb. 1-Apr. 30....	5		
Saguache County.....	Feb. 1-Apr. 30....	4		
San Miguel County.....	Apr. 1-30.....	23		
Summit County.....	Jan. 1-31.....	1		
Weld County.....	Jan. 1-31.....	1		
Weld County.....	Jan. 1-Apr. 30....	52		
Total for State.....		511	3	
Delaware:				
Reedy Island quarantine station.....	May 3-11.....	1	1	From s. s. Main from Bremen.
Total for State.....		1	1	
District of Columbia:				
Total for District.....	Dec. 19-May 21....	76		
Total for District.....		76		
Florida:				
Alachua County.....	Jan. 1-Apr. 23....	4		
Citrus County.....	Mar. 27-Apr. 2....	2		
Columbia County.....	Feb. 13-19.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Florida—Continued.				
Duval County	Jan. 1—May 21	34		
Jacksonville	Jan. 30—Mar. 12	4		
Escambia County	Feb. 6—May 7	77		
Panola County	Feb. 20—26	1		
Franklin County	Apr. 24—30	2		
Gadsden County	Jan. 1—Apr. 30	6		
Hillsboro County	Jan. 1—May 21	2		
Jackson County	Mar. 20—26	19		
Jefferson County	Mar. 20—26	15		
Leon County	Feb. 20—Mar. 26	24		
Liberty County	Jan. 1—31	1		
Santa Rosa County	Mar. 20—May 14	22		
Volusia County	Mar. 6—May 21	5		
Walton County	Jan. 1—May 14	13		
Washington County	May 1—7	7		
Total for State		240		
Georgia:				
Columbus	Apr. 17—23	1	1	
Macon	Jan. 1—31	51		
Total for State		52	1	
Illinois:				
Alexander County	Jan. 1—31	6		
Bond County	Mar. 1—Apr. 30	5		
Cass County	Feb. 1—Apr. 30	22		
Coles County	Jan. 1—Mar. 31	7		
Cook County— Chicago	Dec. 19—Apr. 30	7		Present.
DuPage County	Feb. 1—28			
Edwardsville	Jan. 1—Mar. 31	32		
Efingham County	Jan. 1—Feb. 28	82		
Fayette County	Jan. 1—Apr. 30	5		
Franklin County	Jan. 1—31	6		
Gallatin County	Feb. 1—28	2		
Henry County	Apr. 1—30	14		
Iroquois County	Feb. 1—Apr. 30	3		
Jackson County	Jan. 1—Feb. 28	3		Do.
Jasper County	Feb. 1—28			
Kane County	Jan. 1—31	1		
Livingston County	Feb. 1—Mar. 31	4		
Macon County	Jan. 1—31	1		
McLean County	Jan. 1—Mar. 31	2		
Madison County	Feb. 1—Apr. 30	28		
Marion County	Feb. 1—28	2		
Montgomery County	Jan. 1—Feb. 28	10		
Morgan County	Mar. 1—Apr. 30	4		
Perry County	Apr. 1—30	2		
Pike County	Feb. 1—28	2		
Pulaski County	Jan. 1—31	2		
Richland County	Mar. 1—31	1		
Sangamon County	Jan. 1—31	4		Do.
Shelby County	Jan. 1—Feb. 28	10		
Tazewell County	Apr. 1—30	1		
Wabash County	Jan. 1—31			Do.
Wayne County	Jan. 1—31	5		
White County	Apr. 1—30	1		
Williamson County	Jan. 1—Mar. 31	76		
Total for State		350		
Indiana:				
Adams County	Oct. 1—Mar. 31	14		
Allen County	Oct. 1—Apr. 30	222	1	
Boone County	Feb. 1—28	3		
Carroll County	Nov. 1—Mar. 31	5		
Cass County	Mar. 1—31	6		
Clark County	Dec. 1—Jan. 31	20		
Clinton County	Dec. 1—Apr. 30	47		
Crawford County	Jan. 1—Feb. 28	2		
Davless County	Nov. 1—Apr. 30	35		
Decatur County	Jan. 1—Feb. 28	5		
DeKalb County	Dec. 1—Feb. 28	4		
Delaware County	Oct. 1—Apr. 30	22		
Fountain County	Jan. 1—31	1		
Fulton County	Jan. 1—Mar. 31	14		
Gibson County	Apr. 1—30	3		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Indiana—Continued.				
Grant County.....	Oct. 1-Apr. 30.....	46	1	
Greene County.....	Oct. 1-Apr. 30.....	9		
Hamilton County.....	Jan. 1-Mar. 31.....	6		
Henry County.....	Jan. 1-31.....	2		
Howard County.....	Mar. 1-31.....	2		
Huntington County.....	Jan. 1-Mar. 31.....	6		
Jefferson County.....	Nov. 1-30.....	1		
Jennings County.....	Jan. 1-Feb. 28.....	10		
Knox County.....	Oct. 1-Apr. 30.....	9		
Laporte County.....	Dec. 1-31.....	1		
Madison County.....	Jan. 1-Feb. 28.....	4		
Marion County.....	Dec. 1-Mar. 31.....	18		
Marshall County.....	Oct. 1-Apr. 30.....	87		
Martin County.....	Jan. 1-Apr. 30.....	7		
Miami County.....	Jan. 1-Apr. 30.....	15		
Montgomery County.....	Jan. 1-Apr. 30.....	5		
Noble County.....	Nov. 1-Mar. 31.....	3		
Orange County.....	Apr. 1-30.....	22		
Randolph County.....	Oct. 1-Feb. 28.....	2		
St. Joseph County.....	Oct. 1-Apr. 30.....	28		
Shelby County.....	Dec. 1-Feb. 28.....	49		
Stauben County.....	Nov. 1-30.....	3		
Tippecanoe County.....	Dec. 1-Feb. 28.....	4		
Tipton County.....	Mar. 1-Apr. 30.....	25		
Vanderburg County.....	Oct. 1-31.....	8		
Vermillion County.....	Apr. 1-30.....	8		
Vigo County.....	Feb. 1-Apr. 30.....	7		
Wabash County.....	Feb. 1-Apr. 30.....	8		
Warren County.....	Nov. 1-30.....	1		
Warrick County.....	Feb. 1-Mar. 31.....	9		
Washington County.....	Jan. 1-31.....	1		
Wayne County.....	Nov. 1-Jan. 31.....	1		
Wells County.....	Mar. 1-31.....	1		
Total for State.....		811	2	
Iowa, general.....				
	Jan. 1-31.....	19		
Audubon County.....	Mar. 1-Apr. 30.....	2		
Benton County.....	Mar. 1-Apr. 30.....	2		
Buchanan County.....	Feb. 1-Mar. 31.....	9		
Buena Vista County.....	Jan. 1-31.....	1		
Calhoun County.....	Jan. 1-31.....	10		
Carroll County.....	Mar. 1-31.....	1		
Cass County.....	Jan. 1-Apr. 30.....	3		
Cedar County.....	Jan. 1-Mar. 31.....	4		
Cherokee County.....	Jan. 1-Apr. 30.....	26		
Clayton County.....	Jan. 1-31.....	1		
Clinton County.....	Mar. 1-Apr. 30.....	3		
Dallas County.....	Jan. 1-Apr. 30.....	8		
Delaware County.....	Feb. 1-28.....	4		
Dickinson County.....	Apr. 1-30.....	3		
Dubuque County.....	Jan. 1-Mar. 31.....	47		
Floyd County.....	Feb. 1-Apr. 30.....	3		
Grundy County.....	Feb. 1-28.....	4		
Guthrie County.....	Apr. 1-30.....	3		
Jasper County.....	Apr. 1-30.....	1		
Jefferson County.....	Mar. 1-31.....	1		
Jones County.....	Jan. 1-Feb. 28.....	3		
Keokuk County.....	Apr. 1-30.....	1		
Kossuth County.....	Apr. 1-30.....	2		
Linn County.....	Jan. 1-Apr. 30.....	9		
Cedar Rapids.....	Dec. 1-31.....	7		
Lyon County.....	Mar. 1-31.....	6		
Madison County.....	Jan. 1-Apr. 30.....	2		
Mahaska County.....	Apr. 1-30.....	7		
Marion County.....	Jan. 1-31.....	2		
Marshall County.....	Jan. 1-Feb. 28.....	5		
Mitchell County.....	Feb. 1-Apr. 30.....	3		
Monroe County.....	Jan. 1-Feb. 28.....	3		
Oacola County.....	Mar. 1-31.....	1		
Pocahontas County.....	Apr. 1-30.....	1		
Polk County.....	Jan. 1-Apr. 30.....	176		
Pottawattamie County.....	Jan. 1-31.....	1		
Poweshiek County.....	Jan. 1-Mar. 31.....	19		
Sac County.....	Apr. 1-30.....	4		
Scott County.....	Feb. 1-Apr. 30.....	7		
Sioux County.....	Jan. 1-Mar. 31.....	17		
Story County.....	Feb. 1-28.....	32		
Winnebago County.....	Feb. 1-28.....	5		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Iowa—Continued.				
Winneshlek County.....	Apr. 1-30.....	2		
Woodbury County.....	Feb. 1-Apr. 30.....	4		
Sioux City.....	Dec. 1-31.....	2		
Wright County.....	Feb. 1-Mar. 31.....	2		
Total for State.....		478		
Kansas:				
Allen County.....	Jan. 1-Mar. 31.....	7		
Atchison County.....	Feb. 1-Mar. 31.....	10		
Atchison.....	Mar. 1-31.....	4		
Barton County.....	Jan. 1-31.....	1		
Bourbon County.....	Jan. 1-31.....	3		
Butler County.....	Feb. 1-Mar. 31.....	8		
Chautauqua County.....	Mar. 1-31.....	10		
Cherokee County.....	Jan. 1-Mar. 31.....	21		
Clark County.....	Mar. 1-31.....	5		
Clay County.....	Nov. 1-30.....	1		
Cloud County.....	Nov. 1-30.....	1		
Cowley County.....	Nov. 1-30.....	3		
Crawford County.....	Dec. 1-Mar. 31.....	5		
Pittsburg.....	Jan. 1-Mar. 31.....	9		
Decatur County.....	Nov. 1-Mar. 31.....	39		
Dickinson County.....	Jan. 1-Feb. 28.....	11		
Doniphan County.....	Mar. 1-31.....	12		
Douglas County.....	Dec. 1-Mar. 31.....	4		
Ellsworth County.....	Jan. 1-Feb. 28.....	18		
Finnex County.....	Jan. 1-31.....	1		
Ford County.....	Jan. 1-Mar. 31.....	9	1	
Franklin County.....	Mar. 1-31.....	3		
Gove County.....	Dec. 1-31.....	3		
Graham County.....	Nov. 1-Feb. 28.....	47		
Gray County.....	Jan. 1-Feb. 28.....	25		
Greenwood County.....	Mar. 1-31.....	9		
Hamilton County.....	Jan. 1-31.....	2		
Harper County.....	Feb. 1-28.....	1		
Harper County.....	Feb. 1-Mar. 31.....	5		
Jackson County.....	Dec. 1-Mar. 31.....	12		
Jefferson County.....	Feb. 1-28.....	2		
Jewell County.....	Nov. 1-Mar. 31.....	58		
Kearny County.....	Jan. 1-31.....	1		
Kingman County.....	Feb. 1-28.....	11		
Kiowa County.....	Jan. 1-31.....	2		
Labette County.....	Jan. 1-Mar. 31.....	9		
Parsons.....	Mar. 1-31.....	4		
Lane County.....	Nov. 1-30.....	1		
Leavenworth County.....	Dec. 1-Feb. 28.....	2		
Lincoln County.....	Mar. 1-31.....	1		
Logan County.....	Jan. 1-31.....	2		
Lyon County.....	Dec. 1-31.....	1		
McPherson County.....	Dec. 1-Jan. 31.....	3		
Marion County.....	Mar. 1-31.....	1		
Marshall County.....	Dec. 1-31.....	20		
Miami County.....	Jan. 1-31.....	3		
Montgomery County.....	Nov. 1-Mar. 31.....	180		
Coffeyville.....	Jan. 1-Feb. 28.....	36		
Nemaha County.....	Jan. 1-31.....	1		
Neosho County.....	Jan. 1-31.....	1		
Neos County.....	Dec. 1-Mar. 31.....	15		
Norton County.....	Nov. 1-Feb. 28.....	40		
Osage County.....	Jan. 1-Mar. 31.....	61		
Osborne County.....	Jan. 1-31.....	4		
Phillips County.....	Jan. 1-Mar. 31.....	11		
Pottawatomie County.....	Nov. 1-Mar. 31.....	36		
Pratt County.....	Feb. 1-28.....	1		
Rawlins County.....	Jan. 1-Mar. 31.....	25		
Reno County.....	Nov. 1-Feb. 28.....	151		
Republic County.....	Feb. 1-Mar. 28.....	5		
Rice County.....	Jan. 1-Feb. 28.....	8		
Riley County.....	Jan. 1-Feb. 28.....	18		
Rock County.....	Feb. 1-28.....	2		
Rush County.....	Jan. 1-31.....	5		
Russell County.....	Jan. 1-Feb. 28.....	4		
Saline County.....	Dec. 1-Mar. 31.....	4		
Scott County.....	Nov. 1-Feb. 28.....	19		
Sedgewick County.....	Dec. 1-Mar. 31.....	10	1	
Wichita.....	Jan. 1-31.....	1		
Shawnee County.....	Dec. 1-Mar. 31.....	58		
Topeka.....	Nov. 1-Mar. 31.....	72		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Sheridan County.....	Nov. 1-Jan. 31....	8	.....
Smith County.....	Jan. 1-Mar. 31....	5	.....
Sumner County.....	Nov. 1-Mar. 31....	14	.....
Thomas County.....	Jan. 1-31.....	1	.....
Wabannsee County.....	Nov. 1-Mar. 31....	4	.....
Wilson County.....	Nov. 1-Feb. 28....	4	.....
Woodson County.....	Jan. 1-Feb. 28....	28	.....
Wyandotte County.....	Dec. 1-Jan. 31....	91	.....
Kansas City.....	Jan. 1-Mar. 31....	76	.....
Total for State.....		1,409	2	
Kentucky:				
Hartford.....	Dec. 12-18.....	2	.....
Lexington.....	Dec. 12-Jan. 29....	4	.....
Paducah.....	Jan. 5-11.....	1	.....
Total for State.....		7	.....
Louisiana:				
Ayouelles Parish.....	Apr. 1-30.....	15	.....
Caddo Parish.....				
Shreveport.....	Jan. 23-Feb. 28....	5	2	
Iberia Parish.....	Feb. 1-Mar. 31....	9	.....
Natchitoches Parish.....	Feb. 1-28.....	6	.....
Orleans Parish—				
New Orleans.....	Dec. 26-Apr. 30....	256	1	
East Baton Rouge Parish.....	Apr. 1-30.....	30	.....
Morehouse Parish.....	Feb. 1-28.....	2	.....
St. John the Baptist Parish.....	Feb. 1-Apr. 30....	58	.....
St. Tammany Parish.....	Mar. 1-31.....	6	.....
Tensas Parish.....	Feb. 1-Mar. 31....	17	.....
West Feliciana Parish.....	Mar. 1-31.....	2	.....
Total for State.....		406	3	
Maine:				
Aroostook County—				
Caribou.....	Feb. 1-28.....	6	.....
Total for State.....		6	.....
Maryland:				
Baltimore.....	Dec. 26-Jan. 1....	1	.....
Dorchester County.....	Dec. 3-31.....	4	.....
Garrett County.....	Jan. 8-31.....	1	.....
Prince George County—				
Fort Washington.....	Apr. 1-30.....	1	.....
Total for State.....		7	.....
Massachusetts:				
Bristol County.....	Feb. 1-28.....	6	.....
Essex County.....	Jan. 1-Apr. 30....	6	.....
Middlesex County.....	Jan. 1-Mar. 31....	77	.....
Norfolk County.....	Mar. 1-31.....	1	.....
Lynn County.....	Jan. 1-31.....	4	.....
Plymouth County.....	Feb. 1-28.....	4	.....
Suffolk County.....	Jan. 1-Mar. 31....	4	.....
Worcester County.....	Jan. 1-Mar. 31....	23	.....
Total for State.....		125	.....
Michigan:				
Alcona County.....	Nov. 1-Mar. 31....	31	.....
Alpena County.....	Mar. 1-31.....	1	.....
Antrim County.....	Nov. 1-Apr. 30....	40	.....
Arenac County.....	Nov. 1-Apr. 30....	146	.....
Barry County.....	Apr. 1-30.....	2	.....
Bay County.....	Nov. 1-Apr. 30....	182	.....
Benzie County.....	Mar. 1-31.....	1	.....
Berrien County.....	Jan. 1-Apr. 30....	32	.....
Calhoun County.....	Feb. 1-Apr. 30....	11	.....
Cass County.....	Feb. 1-Apr. 30....	5	.....
Cass County.....	Mar. 1-31.....	7	.....
Cheboygan County.....	Feb. 1-Apr. 30....	12	.....
Clare County.....	Dec. 1-Mar. 31....	2	.....
Delta County.....	Feb. 1-Apr. 30....	13	.....
Eaton County.....	Nov. 1-Feb. 28....	4	.....
Emmet County.....	Nov. 1-Apr. 30....	290	.....
Genesee County.....	Nov. 1-Apr. 30....	290	.....

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Gladwin County	Nov. 1-Apr. 30	17		
Grand County	Nov. 1-Apr. 30	4		
Hillsdale County	Mar. 1-31	1		
Houghton County	Nov. 1-Apr. 30	61		
Huron County	Feb. 1-Apr. 30	44		
Ingham County	Dec. 1-Apr. 30	18		
Ionia County	Nov. 1-Apr. 30	43		
Iscos County	Dec. 1-Apr. 30	9	1	
Kent County	Dec. 1-Apr. 30	14		
Keweenaw County	Jan. 1-Mar. 31	4		
Lapeer County	Nov. 1-Apr. 30	36		
Livingston County	Nov. 1-Mar. 31	32		
Manistee County	Feb. 1-Apr. 30	11		
Marquette County	Nov. 1-30	1		
Mason County	Nov. 1-30	1		
Mecosta County	Jan. 1-Apr. 30	31		
Midland County	Dec. 1-Feb. 28	11		
Missaukee County	Jan. 1-Apr. 30	35		
Montcalm County	Nov. 1-Mar. 31	14		
Montmorency County	Dec. 1-Mar. 31	38		
Oakland County	Jan. 1-Apr. 30	4		
Oceana County	Jan. 1-31	1		
Ogemaw County	Jan. 1-Apr. 30	58		
Ontonagon County	Nov. 1-Apr. 30	21		
Oscoda County	Dec. 1-Apr. 30	27		
Oscoda County	Jan. 1-Feb. 28	7		
Ostego County	Dec. 1-31	1		
Ottawa County	Apr. 1-30	5		
Presque Isle County	Dec. 1-Apr. 30	10		
Roscommon County	Jan. 1-31	6		
Saginaw County	Dec. 1-Apr. 30	146		
St. Clair County	Jan. 1-Apr. 30	32		
Sanilac County	Nov. 1-Apr. 30	13		
Shiawassee County	Dec. 1-Apr. 30	11		
Tuscola County	Feb. 1-Apr. 30	29		
Wayne County	Dec. 1-Apr. 30	9		
Total for State		1,584	1	
Minnesota, general.				
Anoka County	Jan. 1-31		1	
Becker County	Feb. 1-28	5		
Beltrami County	Jan. 4-10	3		
Bentley County	Dec. 21-Mar. 20	4		
Benton County	Dec. 14-20	7		
Blue Earth County	Dec. 21-Apr. 17	2		
Carlton County	Apr. 11-May 2	3		
Carver County	Dec. 7-Jan. 3	4		
Chippewa County	Jan. 11-17	1		
Chicago County	Feb. 15-Apr. 24	10		
Cook County	Jan. 25-31	2		
Cottonwood County	Apr. 24-30	1		
Crow Wing County	Mar. 1-20	5		
Dakota County	Feb. 1-Mar. 20	9		
Dodge County	Jan. 25-31	1		
Faribault County	Feb. 8-Apr. 24	9		
Fillmore County	Apr. 18-30	12		
Freeborn County	Jan. 18-Mar. 6	20		
Goodhue County	Dec. 28-Apr. 17	2		
Hennepin County	Dec. 28-Apr. 30	124		
Houston County	Feb. 8-14	4		
Hubbard County	Mar. 1-6	4		
Isanti County	Feb. 21-Apr. 17	2		
Itasca County	Dec. 14-Feb. 28	2		
Kandiyohi County	Dec. 7-Apr. 3	3		
Kittson County	Apr. 4-17	5		
Koochiching County	Feb. 1-Apr. 24	7		
Lake County	Jan. 18-Apr. 17	13		
Lac qui Parle County	Apr. 24-30	1		
Lesueur County	Jan. 1-31		1	
McLeod County	Mar. 7-13	1		
Martin County	Mar. 7-20	2		
Mower County	Dec. 28-Apr. 3	31		
Nicollet County	Feb. 15-Mar. 13	3		
Nobles County	Jan. 18-25	1		
Norman County	Jan. 18-Mar. 13	3		
Olmsted County	Feb. 8-Apr. 3	2		
Ottertail County	Dec. 21-Mar. 6	28		
Pipestone County	Apr. 18-24	2		
Pine County	Feb. 22-28	1		
Polk County	Dec. 7-Mar. 6	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Minnesota—Continued.				
Ramsey County.....	Jan. 11—Apr. 30.....	30		
Red Lake County.....	Dec. 7—Mar. 20.....	6		
Renville County.....	Dec. 7—13.....	1		
Rice County.....	Jan. 11—Apr. 30.....	2		
Rock County.....	Dec. 7—Feb. 21.....	22		
Roseau County.....	Dec. 7—Apr. 10.....	42		
St. Louis County.....	Dec. 7—Apr. 17.....	51		
Scott County.....	Mar. 21—27.....	1		
Sherburne County.....	Jan. 11—Mar. 27.....	2		
Sibley County.....	Dec. 23—Feb. 28.....	9		
Stearns County.....	Feb. 1—21.....	4		
Swift County.....	Feb. 8—Apr. 24.....	6		
Todd County.....	Dec. 26—Mar. 30.....	4		
Wabasha County.....	Dec. 13—Feb. 21.....	29		
Wadena County.....	Feb. 1—Apr. 24.....	17		
Washington County.....	Apr. 13—24.....	2		
Wilkin County.....	Feb. 15—21.....	1		
Watsonwan County.....	Dec. 23—Jan. 31.....	1		
Winnona County.....	Apr. 13—24.....	3		
Wright County.....	Dec. 7—Mar. 20.....	46		
Yellow Medicine County.....	Feb. 22—23.....	9		
Total for State.....		626	2	
Mississippi:				
Adams County—				
Natchez.....	Dec. 26—Feb. 26.....	90	2	
Claiborne County—				
Port Gibson.....	Dec. 19—25.....	1		
Coahoma County.....	Jan. 1—Apr. 1.....	80		
Harrison County—				
Biloxi.....	Jan. 2—Feb. 3.....	5		
Gulfport.....	Jan. 26—Mar. 9.....	9		
Marshall County.....	Jan. 30—Apr. 30.....	6	1	
Holly Springs.....	Jan. 2—29.....	6		
Wilkinson County—				
Woodville.....	Feb. 27—Mar. 19.....	27	1	
Total for State.....		224	4	
Missouri:				
Andrew County.....	Jan. 23—Feb. 26.....	5		
Joplin.....	Jan. 16—22.....	1		
Kashka.....	Apr. 20—26.....	2		
Kansas City.....	Jan. 2—May 14.....	66	2	
St. Joseph.....	Jan. 2—Feb. 5.....	7		
St. Louis.....	Dec. 26—May 21.....	46		
Springfield.....	Jan. 1—Mar. 31.....	6		
Total for State.....		133	2	
Montana:				
Beaverhead County.....	Dec. 1—Apr. 30.....	11		
Broadwater County.....	Feb. 1—28.....	2		
Carbon County.....	Jan. 1—Apr. 30.....	2		
Cascade County.....	Apr. 1—30.....	3		
Chouteau County.....	Jan. 1—31.....	6		
Custer County.....	Feb. 1—Apr. 30.....	4		
Dawson County.....	Nov. 1—Apr. 30.....	7		
Deerlodge County.....	Feb. 1—Apr. 30.....	3		
Fergus County.....	Apr. 1—30.....	1		
Flathead County.....	Oct. 1—Nov. 30.....	6		
Gallatin County.....	Dec. 1—Apr. 30.....	1		
Jefferson County.....	Nov. 1—30.....	4		
Lewis and Clark County.....	Oct. 1—Apr. 30.....	34		
Madison County.....	Jan. 1—Feb. 23.....	2		
Meagher County.....	Feb. 1—Apr. 30.....	4		
Missoula County.....	Oct. 1—Apr. 30.....	80		
Park County.....	Nov. 1—Apr. 30.....	15		
Powell County.....	Nov. 1—Mar. 31.....	4		
Ravalli County.....	Nov. 1—Mar. 31.....	7		
Rosebud County.....	Apr. 1—30.....	1		
Sanders County.....	Jan. 1—Mar. 31.....	8		
Silverbow County.....	Oct. 1—Apr. 30.....	206		
Butte.....	Dec. 19—Apr. 30.....	84		
Yellowstone County.....	Jan. 1—31.....	2		
Total for State.....		497		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Nebraska:				
Lincoln.....	Jan. 1-Mar. 31.....	15		
South Omaha.....	Dec. 5-11.....	3		
Total for State.....		18		
New Hampshire (entire State).....				
	Jan. 1-Feb. 28.....	7		
New Jersey:				
Bergen County.....	Feb. 1-28.....	1		
Hudson County.....	Mar. 1-31.....	1		
Passaic County.....	Jan. 1-31.....	1		
Trenton.....	Jan. 30-Feb. 5.....	1		
Total for State.....		4		
New York, general.....				
	Sept. 1-Nov. 30.....	33	1	
Allegany County.....	Mar. 1-31.....	1		
Cattaraugus County.....	Dec. 1-31.....	1		
Cayuga County.....	Dec. 1-31.....	1		
Chautauqua County.....	Mar. 1-31.....	1		
Cortland County.....	Feb. 1-Mar. 28.....	1		
Erie County.....	Dec. 1-31.....	17		
Buffalo.....	Feb. 1-28.....	1	1	
Tonawanda, township.....	Mar. 1-31.....	1		
Tonawanda, city.....	Feb. 1-Mar. 31.....	23		
Herkimer County.....	Feb. 1-Mar. 31.....	24		
Jefferson County.....	Dec. 1-Mar. 31.....	9		
Lewis County.....	Dec. 1-Mar. 31.....	13		
Nassau County.....	Mar. 1-31.....	1		
Niagara County.....	Dec. 1-Jan. 31.....	40		
North Tonawanda.....	Feb. 1-Mar. 31.....	33		
Northfield.....	Mar. 1-31.....	1		
Oneida County.....	Dec. 1-Jan. 31.....	2		
St. Lawrence County.....	Jan. 1-Mar. 31.....	21		
Ulster County.....	Jan. 1-31.....	2		
Westchester County.....	Jan. 1-31.....	1		
Total for State.....		227	2	
North Carolina:				
Alamance County.....	Jan. 1-Feb. 28.....	86		
Beaufort County.....	Jan. 1-Feb. 28.....	11		
Bertie County.....	Jan. 1-31.....	6		
Bladen County.....	Nov. 1-Jan. 31.....	21		
Burke County.....	Jan. 1-31.....	20		
Cabarrus County.....	Jan. 1-Feb. 28.....	15		
Caldwell County.....	Jan. 1-Feb. 28.....	31		
Carteret County.....	Jan. 1-Feb. 28.....	3		
Catawba County.....	Oct. 1-Feb. 28.....	62		
Chatham County.....	Jan. 1-31.....	2		
Chowan County.....	Oct. 1-Feb. 28.....	17		
Cleveland County.....	Oct. 1-Feb. 28.....	4		
Craven County.....	Nov. 1-Feb. 28.....	10		
Currituck County.....	Oct. 1-Feb. 28.....	5		
Davidson County.....	Oct. 1-Feb. 28.....	60		
Davie County.....	Jan. 1-Feb. 28.....	29		
Duplin County.....	Nov. 1-Feb. 28.....	24		
Durham County.....	Jan. 1-31.....	3		
Edgecombe County.....	Jan. 1-Feb. 28.....	24		
Forsyth County.....	Oct. 1-Feb. 28.....	101		
Franklin County.....	Oct. 1-Feb. 28.....	185		
Gaston County.....	Nov. 1-Feb. 28.....	26		
Greene County.....	Nov. 1-Feb. 28.....	50		
Guilford County.....	Nov. 1-Feb. 28.....	112		
Iredell County.....	Jan. 1-Feb. 28.....	5		
Johnston County.....	Nov. 1-Jan. 31.....	23		
Jones County.....	Oct. 1-Nov. 30.....	12		
Lee County.....	Feb. 1-28.....	3		
Lenoir County.....	Jan. 1-Feb. 28.....	37		
Lincoln County.....	Jan. 1-Feb. 28.....	8		
McDowell County.....	Nov. 1-Feb. 28.....	75		
Mecklenburg County.....	Nov. 1-Feb. 28.....	102	1	
Nash County.....	Jan. 1-Feb. 28.....	125		Nov. 1-30, many cases.
New Hanover County.....	Feb. 1-28.....	1		
Onslow County.....	Jan. 1-Feb. 28.....	7		
Orange County.....	Feb. 1-28.....	2		
Pamlico County.....	Feb. 1-28.....	40		Jan. 1-31, present.
Perquimans County.....	Jan. 1-31.....	4		
Pitt County.....	Jan. 1-Feb. 28.....	70		
Randolph County.....	Jan. 1-31.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Richmond County.....	Feb. 1-28.....	1		
Robeson County.....	Oct. 1-Feb. 28.....	19		
Rockingham County.....	Nov. 1-Feb. 28.....	50		
Rowan County.....	Nov. 1-Feb. 28.....	21		
Rutherford County.....	Nov. 1-Feb. 28.....	61		
Sampson County.....	Jan. 1-Feb. 28.....	3		
Stokes County.....	Jan. 1-Feb. 28.....	160		
Surry County.....	Oct. 1-Feb. 28.....	16		
Union County.....	Oct. 1-Feb. 28.....	66		
Wake County.....	Nov. 1-Feb. 28.....	61		
Washington County.....	Feb. 1-28.....	2		
Wayne County.....	Nov. 1-Feb. 28.....	28		
Wilkes County.....	Jan. 1-Feb. 28.....	39		
Wilson County.....	Nov. 1-Feb. 28.....	224		
Yadkin County.....	Oct. 1-Feb. 28.....	11		
Yancey County.....	Oct. 1-Feb. 28.....	35		
Total for State.....		2,210	1	
North Dakota:				
Barnes County.....	Mar. 1-31.....	2		
Billings County.....	Jan. 1-Mar. 31.....	15	1	
Bottineau County.....	Oct. 1-Apr. 30.....	3		
Bowman County.....	Mar. 1-31.....	5		
Cass County.....	Dec. 1-Mar. 31.....	8		
Grand Forks County.....	Jan. 1-Apr. 30.....	5		
Griggs County.....	Mar. 1-Apr. 30.....	5		
McLean County.....	Dec. 1-Jan. 31.....	4		
Nelson County.....	Feb. 1-Mar. 31.....	16		
Steele County.....	Feb. 1-Apr. 30.....	10		
Stutsman County.....	Apr. 1-30.....	1		
Walsh County.....	Jan. 1-31.....	95		
Ward County.....	Apr. 1-30.....	4		
Wells County.....	Mar. 1-31.....	23		
Williams County.....	Feb. 1-28.....	6		
Do.....	Mar. 1-31.....	1		
Total for State.....		203	1	
Ohio:				
Allen County.....	Jan. 1-Apr. 30.....	47		
Adams County.....	Jan. 1-31.....	1		
Auglaize County.....	Feb. 1-Apr. 30.....	24		
Belmont County.....	Jan. 1-Feb. 28.....	7		
Brown County.....	Jan. 1-Feb. 28.....	19		
Clark County.....	Mar. 1-31.....	1		
Clermont County.....	Jan. 1-31.....	1		
Clinton County.....	Apr. 1-30.....	13		
Cuyahoga County—				
Cleveland.....	Dec. 19-26.....	1		
Darke County.....	Jan. 1-31.....	3		
Greene County.....	Apr. 1-30.....	9		
Franklin County.....	Jan. 1-Apr. 30.....	9		
Hamilton County.....	Jan. 1-Apr. 30.....	6		
Jackson County.....	Jan. 1-Feb. 28.....	36		
Knox County.....	Feb. 1-28.....	1		
Lucas County.....	Apr. 1-30.....	4		
Miami County.....	Jan. 1-Apr. 30.....	3		
Marion County.....	Apr. 1-30.....	1		
Montgomery County.....	Jan. 1-Mar. 31.....	4		
Paulding County.....	Mar. 1-31.....	2		
Pickaway County.....	Apr. 1-30.....	3		
Portage County.....	Feb. 1-Mar. 31.....	30		
Richland County.....	Mar. 1-31.....	1		
Ross County.....	Jan. 1-Mar. 31.....	17		
Scioto County.....	Feb. 1-Mar. 31.....	4		
Seneca County.....	Feb. 1-28.....	3		
Shelby County.....	Jan. 1-Feb. 28.....	7		
Van Wert County.....	Jan. 1-Apr. 30.....	63		
Wayne County.....	Jan. 1-31.....	1		
Williams County—				
Stryker.....	Dec. 19-25.....	1		
Wyandot County.....	Feb. 1-28.....	4		
Total for State.....		326		
Oklahoma, general.....				
	Jan. 1-31.....	238	2	
	Feb. 1-28.....	388	28	
Atoka County.....	Mar. 1-31.....	5	1	
Beckham County.....	Mar. 1-31.....	18		

SMALLPOX IN THE UNITED STATES—Continued.
 Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma—Continued.				
Blaine County.....	Mar. 1-31.....	2		
Bryan County.....	Mar. 1-31.....	6		
Caddo County.....	Mar. 1-31.....	7		
Choctaw County.....	Mar. 1-31.....	8		
Cleveland County.....	Mar. 1-31.....	1		
Comanche County.....	Mar. 1-31.....	29	2	
Custer County.....	Mar. 1-31.....	3		
Grady County.....	Mar. 1-31.....	5		
Grant County.....	Mar. 1-31.....	1		
Greer County.....	Mar. 1-31.....	1		
Harmon County.....	Mar. 1-31.....	2		
Hughes County.....	Mar. 1-31.....	23		
Johnston County.....	Mar. 1-31.....	4		
Kay County.....	Mar. 1-31.....	11	1	
Kingfisher County.....	Mar. 1-31.....	30		
Kiowa County.....	Mar. 1-31.....	2		
Le Flore County.....	Mar. 1-31.....	1		
Lincoln County.....	Mar. 1-31.....	1		
McCain County.....	Mar. 1-31.....	7		
McIntosh County.....	Mar. 1-31.....	12		
Marshall County.....	Mar. 1-31.....	3		
Muskogee County.....	Mar. 1-31.....	1		
Oklahoma County.....	Mar. 1-31.....	17	14	
Okmulgee County.....	Mar. 1-31.....	1		
Payne County.....	Mar. 1-31.....	10		
Pittsburg County.....	Mar. 1-31.....	10		
Pontotoc County.....	Mar. 1-31.....	12		
Pottawatomie County.....	Mar. 1-31.....	42	2	
Pushmataha County.....	Mar. 1-31.....	6		
Roger Mills County.....	Mar. 1-31.....	3		
Rogers County.....	Mar. 1-31.....	2		
Seminole County.....	Mar. 1-31.....	8		
Sequoyah County.....	Mar. 1-31.....	5	1	
Stephens County.....	Mar. 1-31.....	50		
Texas County.....	Mar. 1-31.....	28		
Tillman County.....	Mar. 1-31.....	5		
Tulsa County.....	Mar. 1-31.....	7	2	
Wagoner County.....	Mar. 1-31.....	3	1	
Total for State.....		1,016	54	
Oregon (entire State).....	Sept. 1-Feb. 28.....	118		
Portland.....	Nov. 1-30.....	2		
Total for State.....		120		
Pennsylvania (entire State)....	Dec. 1-Mar. 31....	97		
South Carolina:				
Charleston.....	Apr. 1-30.....	3		
Clover.....	Jan. 23-29.....	3		
Total for State.....		6		
Tennessee:				
Davidson County—				
Nashville.....	Feb. 20-Apr. 23.....	7		
Dekalb County.....	Dec. 12-Jan. 26.....	10		
Hamilton County—				
Chattanooga.....	Dec. 26-May 21.....	91		
Knox County—				
Knoxville.....	Jan. 2-May 21.....	94		
Shelby County.....	Nov. 1-Jan. 31.....	28		
Memphis.....	Nov. 1-May 22.....	226		
Washington County.....	Dec. 26-Feb. 5.....	11		
Total for State.....		467		
Texas, general.....	Jan. 1-Mar. 31.....	1,818	8	
Amarillo.....	Jan. 16-22.....	16		
Austin.....	Apr. 9-13.....			Present.
Atascosa County.....	Jan. 31-Feb. 19.....	6		
Denton County.....	Dec. 26-Feb. 27.....	106	15	
El Paso.....	Nov. 1-Apr. 16.....	16	1	
Fort Prairie.....	Apr. 1.....			Do.
Fort Worth.....	Nov. 1-Apr. 30.....	72	7	
Galveston.....	Feb. 6-Mar. 19.....	5	1	
Hale County.....	Jan. 9-15.....	7		
Houston.....	May 8-14.....	6		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas—Continued.				
Meridian.....	Apr. 24-0.....	1	1	
Normanna.....	Jan. 1-31.....	12	5	
Rockdale.....	Feb. 13-19.....	3	.....
San Antonio.....	Dec. 5-Apr. 23.....	34	1	
Taylor.....	Feb. 27-Mar. 19.....	2	.....
Waco.....	Jan. 1-Apr. 30.....	18	.....
Walnut Springs.....	Jan. 12-18.....	2	.....
Wills Point.....	Jan. 1-Mar. 31.....	6	2	
Total for State.....		2,130	41	
Utah:				
Boxelder County.....	Dec. 1-Apr. 30.....	51	.....
Cache County.....	Dec. 1-Apr. 30.....	23	.....
Carbon County.....	Dec. 1-Apr. 30.....	9	.....
Davis County.....	Dec. 1-Apr. 30.....	51	.....
Iron County.....	Apr. 1-30.....	11	.....
Juab County.....	Jan. 1-Apr. 30.....	31	.....
Plute County.....	Dec. 1-31.....	1	.....
Rich County.....	Jan. 1-Feb. 28.....	2	.....
Salt Lake County.....	Dec. 1-Apr. 30.....	115	.....
San Pete County.....	Dec. 1-Apr. 30.....	13	.....
Sevier County.....	Dec. 1-Feb. 28.....	8	.....
Summit County.....	Jan. 1-Apr. 30.....	14	.....
Tooele County.....	Dec. 1-31.....	1	.....
Uintah County.....	Dec. 1-Apr. 30.....	31	.....
Utah County.....	Dec. 1-Apr. 30.....	91	.....
Wasatch County.....	Dec. 1-Feb. 28.....	10	1	
Weber County.....	Dec. 1-Apr. 30.....	45	.....
Total for State.....		507	1	
Virginia:				
Brookneal.....	Apr. 10-16.....	1	.....
Lee County.....	Jan. 1-May 15.....	200	3	
Lynchburg.....	Jan. 30-May 7.....	56	1	
Norfolk.....	Apr. 19-May 3.....	6	.....	Apr. 19-May 3, 2 cases at Craney Island quarantine station from the s. s. Pocahontas.
Petersburg.....	Dec. 26-Jan. 26.....	2	.....
Portsmouth.....	Jan. 16-29.....	2	.....
Richmond.....	Dec. 1-May 31.....	8	.....
Total for State.....		275	4	
Washington:				
Adams County.....	Mar. 1-31.....	6	.....
Asotin County.....	Jan. 1-Mar. 31.....	2	.....
Chelan County.....	Feb. 1-Mar. 31.....	2	.....
Columbia County.....	Feb. 1-28.....	4	.....
Cowlitz County.....	Feb. 1-28.....	2	.....
Franklin County.....	Jan. 1-31.....	2	.....
Island County.....	Mar. 1-31.....	1	.....
King.....	Jan. 1-31.....	5	.....
Seattle.....	Jan. 2-Mar. 31.....	9	.....
Kitsap County.....	Jan. 1-Mar. 31.....	15	1	
Klickitat County.....	Jan. 1-31.....	15	.....
Lewis County.....	Jan. 1-31.....	2	.....
Lincoln County.....	Jan. 1-31.....	1	.....
Okanogan County.....	Feb. 1-28.....	2	.....
Pacific County.....	Mar. 1-31.....	1	.....
Pierce County.....	Jan. 1-Mar. 31.....	3	.....
Tacoma.....	Jan. 2-Feb. 28.....	4	.....
San Juan County.....	Jan. 1-31.....	1	.....
Skagit County.....	Jan. 1-Feb. 28.....	31	.....
Spokane County.....	Jan. 1-Mar. 31.....	3	.....
Spokane.....	Dec. 19-Mar. 31.....	77	.....
Stevens County.....	Jan. 1-31.....	3	.....
Walla Walla County.....	Jan. 1-Mar. 31.....	30	.....
Whatcom County.....	Mar. 1-31.....	9	.....
Bellingham.....	Feb. 1-Mar. 31.....	5	2	
Wahkiakum County.....	Dec. 1-31.....	8	.....
Whitman County.....	Jan. 1-Feb. 28.....	21	.....
Yakima County.....	Jan. 1-Mar. 31.....	8	.....
Total for State.....		272	3	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from January 1 to June 3, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
West Virginia:				
Berkeley Springs	Dec. 27—Feb. 17 ...	6		
Wheeling	Jan. 30—Feb. 5	1		
Total for State		7		
Wisconsin:				
Ashland County	Mar. 1—Apr. 30	13		
Barron County	Apr. 1—30	1		
Buffalo County	Feb. 1—Mar. 31	5		
Chippewa County	Jan. 1—31	3		
Clark County	Jan. 1—Mar. 31	16		
Crawford County	Feb. 1—Mar. 31	17		
Dane County	Feb. 1—Mar. 31	14		
Dodge County	Mar. 1—31	2		
Douglas County	Jan. 1—Apr. 30	35		
Superior	Dec. 19—Jan. 1	6		
Fond du Lac County	Apr. 1—30	1		
Grant County	Feb. 1—28	1		
Jefferson County	Jan. 1—Feb. 28	19		
Juneau County	Jan. 1—31	1		
La Crosse County	Jan. 1—Apr. 30	21		
La Crosse	Dec. 19—Jan. 1	2		
Langlade County	Jan. 1—Feb. 28	3		
Manitowoc County	Mar. 1—Apr. 30	14		
Marathon County	Apr. 1—30	3		
Milwaukee County	Jan. 1—Apr. 30	21		
Milwaukee	Dec. 19—Jan. 1	2		
Monroe County	Apr. 1—30	3		
Polk County	Apr. 1—30	1		
Price County	Feb. 1—28	1		
Rock County	Mar. 1—31	2		
Walworth County	Feb. 1—28	1		
Winnebago County	Jan. 1—Mar. 31	3		
Total for State		211		
Grand total for the United States		16,498	130	

MORBIDITY AND MORTALITY.

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

[For smallpox see special tables.]

Cities.	Week ended—	Esti- mated popu- lation, 1909.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.	May 28	50,814	14	1											
Ann Arbor, Mich.	May 21	14,711	2	1								7			
Auburn, N. Y.	do	34,272	11	1											
Baltimore, Md.	May 28	576,023	164	46	16	8	1	39	1	14		20		3	2
Bayonne, N. J.	do	49,894		6	2			2			6	4		5	
Beaver Falls, Pa.	do	10,341										1			
Berkeley, Cal.	May 21	19,700	7												
Biddeford, Me.	May 28	17,676	2	1				3	2	3					
Binghamton, N. Y.	do	45,855	9	1											
Birmingham, Ala.	May 21	49,553	52	6	7	2	1	4				39	1	4	1
Do.	May 28		57	10	3	5		3		1		38	4	3	1
Boston, Mass.	do	622,970	215	134	23	5	2	54	1	69	3	228	3	8	
Braddock, Pa.	do	21,000	8					2				3			
Bridgeport, Conn.	do	90,913	38		5			6		3	2	2		2	
Brockton, Mass.	do	53,978	11	8						1					
Butler, Pa.	do	12,760	6	1						1		36			
Cambridge, Mass.	do	101,872	22	6	4	1		4	1	5		12		1	

ª Estimated population 1906. No estimate for 1909.

MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Estimated population 1909.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cambridge, Ohio.....	May 29	11,733	7	1	1							6	1		
Camden, N. J.....	May 21	89,305		2				8		3		8			
Carbondale, Pa.....	May 28	15,698	4							1					
Chattanooga, Tenn.....	do	34,654				1		5							
Chelsea, Mass.....	do	39,862	13					5				3			
Chicago, Ill.....	do	2,224,491	648	114	80	15	2	144	18	120	18	647	7	62	7
Chicopee, Mass.....	do	20,010	10	1				1				5			
Cincinnati, Ohio.....	do	351,212	92	45	13	2		5		7		90	2	1	
Clinton, Mass.....	do	12,656	1												
Coffeeville, Kans.....	do		2			1		1				4			
Columbus, Ga.....	do	17,893					1								
Columbus, Ohio.....	do	155,340	50	5	10	2						55	1	6	
Concord, N. H.....	May 21	21,997	6		1										
Do.....	May 28		8		1	1									
Covington, Ky.....	do	51,715	8	1	1	2				2		30	1		
Danville, Ill.....	do	27,387	7	1	1			1				5			
Dayton, Ohio.....	do	108,688	29	2	2					6		31			
Detroit, Mich.....	do	384,855	138	2	2			18	1	9					
Duluth, Minn.....	do	74,520	19		1			16	1	3		10			
Dunkirk, N. Y.....	do	18,061	6	1	2	2				2		10			
Elizabeth, N. J.....	do		20		2			9		5	1	7		1	
Elmira, N. Y.....	do	35,756	6		1			10							
Elyria, Ohio.....	May 21											11			
Do.....	May 28		1									19			
Erie, Pa.....	May 14	63,652	28	10	3	2		8		1		13			
Do.....	Do		7	7				8		1		5			
Do.....	May 28		17	2	2	4		15	1	1		7		2	
Evansville, Ind.....	do	66,948	14	4		2		1				87			
Everett, Mass.....	do	32,931	8	3						2		9			
Fall River, Mass.....	do	106,481	33	12	1	3	1	5		3	3	20			
Fort Wayne, Ind.....	do		17	1	1			2				14		1	
Freeport, Ill.....	do	19,200	2		1							1			
Galesburg, Ill.....	May 29	21,615	2		1			2		2					
Gloucester, Mass.....	May 28	25,923	4												
Grand Rapids, Mich.....	do	105,909	27	2	2			19	1	1	1	23			
Harrison, N. J.....	do		3					1							
Haverhill, Mass.....	do		8	4	1	1				1		11		1	
Indianapolis, Ind.....	May 14	241,826	82	8	9	2		14		8		109	1	22	4
Do.....	May 21		79	7	6	2		11		5		99	2	26	
Jacksonville, Fla.....	May 28	40,798	25		3	9		2							
Johnstown, Pa.....	do	46,520	13	12				7		1		3			
Kalamazoo, Mich.....	do	36,504	13	4	3			5				13		6	1
Kansas City, Kans.....	do	85,742	36	2	2	1	1	9		3		11			
Kearny, N. J.....	do	15,765	3					1		2		3		1	
Kingston, N. Y.....	May 21	26,110	9	2	1			3				1			
Do.....	May 28		8		1										
Knoxville, Tenn.....	do	37,758	4												
La Crosse, Wis.....	do	29,224	6					2				1			
La Fayette, Ind.....	do	19,801	6		1							5			
Lancaster, Pa.....	do	49,962	19		1	3		3		1		27			
Lawrence, Mass.....	do	76,042	18	1	2	1		7		5	1	3	1		
Lebanon, Pa.....	do	20,295	2					3		3		1			
Los Angeles, Cal.....	May 21	103,000	88	11	18	2		18		10		28	1	8	
Lowell, Mass.....	May 28	95,125	35	5	1	1		12	1	4	1	17	1		
Lynchburg, Va.....	do	29,457								4		3			
Lynn, Mass.....	May 21	83,865	20	1	2	1		11		4		90			
Madison, Ind.....	May 28					3						2			
Manchester, N. H.....	do	68,561	28	2	2	1				3	2	7			
Manistee, Mich.....	do	10,788										93			
Mansfield, Ohio.....	do	21,390						2				10			
Marinette, Wis.....	do	14,682	5					2	1						
Massillon, Ohio.....	do	13,610								1		3			
Milwaukee, Wis.....	do	332,495	106	15	8	86	1	60	4	20	1	63	2	10	2
Mendford, Mass.....	do	20,839	7					10		2		2			1
Memphis, Tenn.....	do		60	11	4	2	1	6	1	1					
Merroe, Mass.....	May 21	15,361	2	1								1			
Mobile, Ala.....	do	45,122	28		3	13	1								
Moline, Ill.....	May 28	23,081	1					3		1	1				
Montclair, N. J.....	do	18,296	7	1	1			3				1			
Montgomery, Ala.....	do	43,927	23	1	1	2								1	

* Population 1900. No estimate.

MORBIDITY AND MORTALITY—Continued.

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

Cities.	Week ended—	Esti- mated popula- tion, 1909.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Morristown, N. J.	May 21	12,849	3	1	3	1				1		2			
Do	May 28		2	2				2				3			
Mount Vernon, N. Y.	do	27,891	13	1		1				3		10	1		
Muskegon, Mich.	May 21							1				2			
Do	May 28					1				2		1			
Nanticoke, Pa.	May 29		5					3		4	2				
Nashville, Tenn.	May 28	106,476	41	2	3	3		6		1		7			
Newark, N. J.	do	308,669	102	12	17	2		38	4	25					
Newburyport, Mass.	do	14,832	6	1	2	2						1			
New Bedford, Mass.	do	83,898	39	7	1			3		2		5			
New Orleans, La.	do	327,662	128	41	22	2		24	2	4	1	86	3		
Newport, Ky.	do	31,345	6	2	1			5		3		12		2	
Newton, Mass.	do	39,419	13	2	1			5		4		12		2	
New York, N. Y.	do	4,450,963	1,384	537	166	36	5	573	27	446	40	1,316	26	49	3
Niagara Falls, N. Y.	do	32,012	11		1		1	2		1		4			
Norristown, Pa.	do	24,491	5	1				1				2			
North Adams, Mass.	do	20,510	7		1			1			1	2			
Northampton, Mass.	do	21,008	10									8			
North Weymouth, Mass.	do	11,793	1												
Oakland, Cal.	May 21	73,812	37	2	4	1		1		1				3	
Orange, N. J.	May 28	27,669	10	2	3					1		1			
Palmer, Mass.	do		1												
Peekskill, N. Y.	do	15,473	6					1		1		16			
Pittsburg, Pa.	May 21	558,123	163	42	13	7	1	34	1	12	3	208	9	18	1
Do	May 28		161	31	12	6	2	23	5	12	2	134	2	13	
Pittsfield, Mass.	do	27,589	6					4		4		1			
Plainfield, N. J.	do	20,947	1	1		1		1							
Plymouth, Pa.	May 21	17,524	2		1			1							
Do	May 28		1					2		2					
Portsmouth, N. H.	do	11,336						1							
Portsmouth, Va.	do	19,225	6					1		1		2			
Pottstown, Pa.	do		6	1				3		3		2			
Providence, R. I.	do	217,065	69	6	6	1		13	1	15	1	11	5		
Racine, Wis.	do	34,840	12												
Reading, Pa.	May 30	97,231	40	3	5	4		8	1	2	1	42		8	
Rock Island, Ill.	May 28	24,766	9		1			4				2			
Sacramento, Cal.	May 21	31,889	24	1	2			1	1	2		3			
Sandusky, Ohio.	May 14		10												
Do	May 21		6			1									
Do	May 28		6												
San Francisco, Cal.	May 21	342,782	122	19	6	7	1	8	1	11		54		25	1
Saginaw, Mich.	do		11	1	1			1		2		1		1	1
Saratoga Springs, N. Y.	May 14	13,471	3									41			
Do	May 21		4	2		2	1			1		34	1		
Seattle, Wash.	do	104,169	45	7	5		1	14		4	1	54	1		
Somerville, Mass.	May 28	75,375	29	3	1	2		14		8		9			
South Bethlehem, Pa.	do	15,886	5	3	1							2			
Spokane, Wash.	May 21	47,006	25					11		3	2	16			
Springfield, Mass.	May 28	82,724	28	1	3			6		8	1	32	2	2	
Steelton, Pa.	do	14,769	3	1		2		1		5		1			
Superior, Wis.	do	40,919	5					4		3					
Tacoma, Wash.	May 21	37,714	19					3		3		7			
Titusville, Pa.	May 28	8,397	3												
Toledo, Ohio.	May 14		44		6	3		6		2	1	46	1		
Do	May 21		48		4	3	1	2		1	1	46			
Do	May 28				1	1		5		1	1	34			
Trenton, N. J.	do		4	2	2	6		8	1	3	1				
Utica, N. Y.	do		14					2				3		2	
Warren, Ohio.	May 21		2												
Warren, Pa.	May 23		1									8			
Wilkes-Barre, Pa.	May 28		19	6	1		2	7		4		2			
Wilmington, Del.	do		32		2						1				
Williamsport, Pa.	do		8					3				36			
Woburn, Mass.	do		9	1			1	1		1		22	1		
Worcester, Mass.	May 21		48	8	2	1		2		10	1	32	1	6	2
York, Pa.	May 28		2							1		5			
Zanesville, Ohio.	do		6			3						5			

Estimated population 1906.

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

CALIFORNIA.—Month of April, 1910. Population, 2,037,929. Total number of deaths from all causes 2,605, including typhoid fever 33, measles 27, scarlet fever 5, diphtheria 22, tuberculosis 420.

INDIANA.—Month of March, 1910. Population, 2,732,550. Total number of deaths from all causes 3,469, including typhoid fever 33, diphtheria 29, tuberculosis 478. Cases reported: Typhoid fever 71 cases in 30 counties, smallpox 107 cases in 21 counties, diphtheria 120 cases in 38 counties.

NEBRASKA.—*Lincoln.*—Month of March, 1910. Population, 65,000. Total number of deaths from all causes 50, including tuberculosis 7. Cases reported: Smallpox 13, measles 8, scarlet fever 9, diphtheria 7. Month of April, 1910. Total number of deaths 35, including 4 from tuberculosis. Cases reported: Smallpox 10, measles 5, scarlet fever 9, diphtheria 5.

NORTH DAKOTA.—Month of April, 1910. Population, 536,103. Total number of deaths from all causes 291, including scarlet fever 3, diphtheria 2, tuberculosis 2. Cases reported: Typhoid fever 9, smallpox 18, measles 284, scarlet fever 89, diphtheria 21, tuberculosis 15.

TEXAS.—*Fort Worth.*—Month of April, 1910. Population, 60,000. Total number of deaths from all causes 109, including tuberculosis 8. Cases reported: Typhoid fever 2, smallpox 8, measles 37, scarlet fever 5, tuberculosis 8.

WISCONSIN.—Three months ended March 31, 1910. Population, 2,228,969. Total number of deaths from all causes 7,293, including typhoid fever 129, measles 15, scarlet fever 93, diphtheria 72, tuberculosis 645. Cases reported: Typhoid fever 644, smallpox 197, measles 944, scarlet fever 1,856, diphtheria 564, tuberculosis (pulmonary) 358.

FOREIGN AND INSULAR.

CHINA.

HONGKONG—Inspection of Vessels—Smallpox.

Passed Assistant Surgeon Foster reports, April 27:
Quarantine restrictions enforced by and against Hongkong remain as reported April 16.

During the week ended April 23, 1 case of smallpox with 1 death was reported.

INSPECTION AND DISINFECTION OF VESSELS.

Week ended April 23.

Vessels granted bills of health.....	11
Total members of crews.....	1, 021
Total cabin passengers.....	262
Total steerage passengers.....	695
Members of crews bathed.....	889
Steerage passengers bathed.....	650
Pieces of baggage disinfected.....	1, 536
Vessels disinfected to kill rats.....	5
Crews' quarters disinfected:	
With formaldehyde.....	8
With sulphur.....	5

SHANGHAI—Inspection of Vessels—Smallpox.

Acting Assistant Surgeon Ransom reports, May 3:

Week ended April 30.

Vessels granted bills of health.....	3
Total members of crews.....	393
Total cabin passengers.....	162
Total steerage passengers.....	185
Steerage passengers bathed and effects disinfected.....	8
Pieces of baggage disinfected.....	22
Pieces of freight disinfected.....	38
Pieces of freight viséed.....	6, 928

The weekly report of the municipal health officer shows 2 cases of smallpox among foreigners and among natives 4 deaths from smallpox.

Reports from Hankow show relapsing fever in that district.

COSTA RICA.

LIMON, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Mengis reports:
Bills of health issued as follows:

WEEK ENDED MAY 14.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 7	San José.....	Boston.....	43	1	.....
9	Prinz Joachim.....	New York.....	85	142	3
11	Hippolyte Dumois.....	New Orleans.....	25	.....	.....
12	Juan.....	Mobile.....	25	.....	.....
12	Bluefields.....	Mobile via Bocas.....	22	.....	.....
13	Heredia.....	New Orleans via Barrios and Bocas.....	79	36	13

WEEK ENDED MAY 21.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 15	Ellis.....	New Orleans.....	30	1	.....
15	Esparta.....	Boston.....	43	14	.....
16	Siberia.....	New York.....	56	2	30
18	Vers.....	New Orleans.....	22	1	.....
18	Verona.....	Mobile.....	23	.....	.....
19	Captain Bennett.....	Baltimore.....	21	.....	.....
20	Cartago.....	New Orleans via Barrios and Belize.	82	20	18

CUBA.

CIENFUEGOS—Inspection of Vessels.

Acting Assistant Surgeon Suarez reports, May 27:
 Week ended May 21. Vessels inspected, 4. Bills of health issued, 4. Members of crews of outgoing vessels inspected, 101. Immune certificates issued, 1. Vaccination certificates issued 1. No quarantinable disease reported.

HABANA—Inspection of Vessels—Leprosy, in Cuba.

Passed Assistant Surgeon de Valin reports, May 31:
 Week ended May 28. Bills of health issued, 24. Vessels inspected and passed, 19. Passengers of outgoing vessels inspected, 636. Members of crews of outgoing vessels inspected, 835.
 The report of the mosquito brigade shows 20,311 houses inspected and 18,529 water deposits petrolized or suppressed during the 10 days ended May 20.

The department of sanitation reports for the island of Cuba for the 10 days ended April 30, 14 new cases of leprosy with 2 deaths and 339 cases remaining under treatment. There were no quarantinable diseases reported in the island during the week ended May 28.

SANTIAGO—Inspection of Vessels.

Acting Assistant Surgeon Wilson reports, May 26:
 Week ended May 14. Bills of health issued to 5 vessels bound for the United States and its dependencies. Week ended May 21. Bills of health issued to 6 vessels bound for the United States.
 The department of sanitation reports 2,950 houses inspected during the week ended May 14 and 2,516 during the week ended May 21. No quarantinable disease was reported.

FRANCE.

Special Precautions Against Importation of Cholera Suspended.

The following communication, dated May 12, was received from Ambassador Bacon at Paris, through the Department of State, under date of May 28:

The prophylactic measures enacted by decree of August 27, 1909, against the importation into France of cholera from Russia have been suspended on account of the disappearance of epidemic manifestations of the disease in Russia.

GERMANY.

BREMEN—Inspection of Emigrants.

The following information, dated May 18, was received from Consul Fee, through the Department of State, under date of June 3:

The inspection of emigrants for all physical defects and contagious diseases is most thorough at this port. All emigrants for America are usually detained here upon their arrival for a day or two and are lodged in comfortable emigrant houses. From the time that they are received here until their departure they are under the closest scrutiny and inspection by the Bremen state health authorities. The day before the sailing of vessels, which is usually triweekly, medical examinations are held at the steamship inspection hall. This examination is under the auspices of this consulate and it is attended by the consul or the deputy consul or some other representative from this office. The emigrants are each and every one examined. Their eyes are closely inspected, temperature is taken, all physical defects and failings are noted, and every emigrant is vaccinated. The unfit are rejected and suspects detained.

GUATEMALA.

PUERTO BARRIOS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Ames reports:

Week ended May 21. Bills of health issued as follows:

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 16	José.....	New York, via Bocas and Port Antonio.	20	.....	.....
16	Heredia.....	New Orleans, via Belize.....	79	15	13
19	Ravn.....	do.....	19	.....	.....
20	Agnella.....	do.....	17	.....	.....

Temperature taken of all persons on steamships for Gulf ports. *Stegomyia calopus* are numerous and water containers are not screened.

HAWAII.

The last case of human plague at Honolulu occurred July 17, 1907.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 12, 1910.

At Hilo the last case of human plague occurred March 23, 1910.

The last plague-infected rat was found at Piihuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, May 16:

HONOLULU—Plague-prevention Work.

Week ended May 14, 1910.

Total rats taken.....	725
Trapped.....	723
Found dead (<i>Mus alexandrinus</i> , <i>Mus norvegicus</i>).....	2
Examined bacteriologically.....	627
Plague rats.....	0

Classification of rats trapped:

<i>Mus alexandrinus</i>	106
<i>Mus musculus</i>	330
<i>Mus norvegicus</i>	46
<i>Mus rattus</i>	241
Average number of traps set daily.....	1,738

HONDURAS.**PUERTO CORTEZ, Fruit Port—Inspection of Vessels.**

Acting Assistant Surgeon Stowe reports:
Bills of health issued as follows:

WEEK ENDED MAY 24.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 18	Agnella.....	.....	19	5	.....
19	Viator.....	.....	17	3	.....
22	Viking.....	.....	22	.....	.....
24	Navigator.....	.....	19	2	.....

No quarantinable disease present.

TELA, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Roe reports:
Bills of health issued as follows:

WEEK ENDED MAY 14.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 12	Bodo.....	Mobile.....	17	.....	.....

WEEK ENDED MAY 21.

.....	Colombia.....	.....	.....	.....	.....
.....	Harald.....	Mobile.....	18	2	.....

INDIA.**CALCUTTA—Cholera, Plague, and Smallpox.**

Acting Assistant Surgeon Allan reports, May 4:

Week ended April 16. At Calcutta there were 65 deaths from cholera, 60 from plague, and 6 from smallpox; in all Bengal, 1,389 cases of plague with 1,432 deaths; in all India, 22,540 cases of plague with 20,365 deaths.

Week ended April 30. Bill of health issued to steamship *Gutenfels* bound for Boston and New York with a total crew of 70. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and effects of Asiatics disinfected.

ITALY.

NAPLES—Examination of Emigrants—Smallpox.

Surgeon Geddings reports, May 17:

Vessels inspected at Naples and Palermo week ended May 14.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
May 8	San Giovanni.....	New York.....	1,604	130	1,650
8	Italia.....	do.....			
11	Duca d'Aosta.....	do.....	1,001	170	1,380
11	Moltke.....	do.....	1,067	160	1,250
11	Pannonia.....	do.....			
12	Ancona.....	Philadelphia.....	1,412	140	1,580
12	Calabria.....	New York.....	442	50	620
13	Berlin.....	do.....	1,718	180	2,250
13	Mendoza.....	do.....	998	90	1,100
14	Madonna.....	do.....	861	150	1,150
	Total.....		9,103	1,070	10,960

PALERMO.

May 12	Duca d'Aosta.....	New York.....	379	500	150
13	Calabria.....	do.....	415	500	150
	Total.....		794	1,000	300

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Measles.	Other causes.	Total.
May 8	San Giovanni..	24	10	15			13	62
8	Italia.....							
11	Duca d'Aosta..	17	6	23	1		10	57
11	Moltke.....	26	6	25			4	61
11	Pannonia.....							
12	Ancona.....	35	5	24		1	10	75
12	Calabria.....	9	1	6			4	20
13	Berlin.....	49	5	22	1		20	97
13	Mendoza.....	36	6	19			8	69
14	Madonna.....	17	3	9			11	40
	Total.....	213	42	143	2	1	80	481

PALERMO.

May 12	Duca d'Aosta..	21		26			6	53
13	Calabria.....	24		20			5	49
	Total.....	45		46			11	102

Smallpox in Naples.—During the week ended May 15, 13 cases of smallpox with 1 death were reported at the health office of the city of Naples.

JAPAN.

YOKOHAMA—Typhoid Fever in Tokyo—Inspection of Vessels.

Surgeon Irwin reports, May 9:

The epidemic of typhoid fever in Tokyo (population, 1,155,300), has assumed alarming proportions, the gradual increase year by year not having attracted much attention until the recent outbreak of a great number of cases. In 1905 there were 1,707 cases; in 1906, 1,966 cases; in 1907, 1,842 cases. In 1908 there was a decrease, only 1,783 cases being reported, but in the following year there were 2,225 cases. In the present year there were 903 cases reported between January 1 and April 20, and in the period from April 1 to 20 there were 318 cases reported in the city and 364 in the suburban districts. At the present time about 30 cases are reported daily. The hospitals are crowded and many cases are being treated in private houses. The cause of the epidemic is believed to be imperfect drainage and contamination of water supply.

Rinderpest is accountable for a heavy mortality among cattle in Kanagawa prefecture. The latest official statistics show that since March 12, 448 animals have been slaughtered.

Inspection of vessels.—Week ended May 7. Bills of health issued as follows: Steamships *Oceano* and *Titan* for Manila, *Keemun* and *Seattle Maru* for Tacoma, and *Tenyo Maru* for San Francisco. These vessels carried an aggregate of 595 in crews and 282 cabin and 890 steerage passengers.

KOBE—Inspection of Vessels—Plague.

Acting Assistant Surgeon Moore reports, May 4:

Week ended April 30. Supplemental bills of health granted to 5 steamships. Members of crews inspected, 798; steerage passengers inspected, 1,354. Steerage passengers bathed, 440; effects disinfected. Pieces of baggage steamed, 1,219; bedding, 880. Manifests viséed for 60,994 pieces of freight amounting to 5,321 tons. Twenty-two cases of human hair and 18 cases of household effects were disinfected with formalin. Emigrants were inspected and passed as follows: Per steamship *Mongolia* for Honolulu, 280, Russians 253, Japanese 27; vaccinated. Per steamship *Seattle Maru* for Tacoma, 18. Per steamship *Tenyo Maru* for Honolulu, 135, Russians 105, Japanese 30; vaccinated; for San Francisco, 7 Japanese. All the emigrants were 7 days in quarantine detention at Ono before embarkation.

The official returns for infectious diseases show for the week 1 case of plague.

MEXICO.

Report from the Superior Board of Health of Mexico.

In compliance with articles 1 and 2 of the International Sanitary Convention held at Washington October 9-14, 1905, the president of the Superior Board of Health of Mexico reports, May 23 and 30, that no case of yellow fever and no death from the said disease were registered in the Mexican Republic during the weeks ended May 21 and 28, and that the prophylactic measures reported under date of September 28, 1908, continue to be carried out.

COATZACOALCOS—Inspection of Vessels.

Acting Assistant Surgeon Thompson reports, May 19:

Week ended May 18. Vessels inspected: May 13, steamship *Magician* for a port in the United States via Veracruz and Tampico; May 15, steamship *Oregonian* for Delaware Breakwater; May 17, steamships *Dronning Olga* for New Orleans via Veracruz and *Caroni* for Newport News via Tampico. Vessels inspected and fumigated: May 12, steamship *Santonina* for European ports via Norfolk, and May 16, steamship *Oaxaca* for New Orleans.

PROGRESO—Inspection of Vessels.

Acting Assistant Surgeon Harrison reports, May 22:

Week ended May 21. Two steamships inspected. Of this number 1 was fumigated. These vessels carried an aggregate of 124 in crews and 40 passengers from Progreso.

NICARAGUA.

BLUEFIELDS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Jumel reports:

Bills of health issued as follows:

WEEK ENDED MAY 17.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
May 12	Navigator.....	.....	18	6	.....

Stegomyia calopus are abundant.

WEEK ENDED MAY 24.

May 19	Hiram.....	.....	14	.....	.....
19	Imperator.....	.....	20	2	.....
23	La Nina.....	.....	9	1	2

PANAMA.

BOCAS DEL TORO, Fruit Port.

Acting Assistant Surgeon Osterhaut reports:

Bills of health issued as follows:

WEEK ENDED MAY 18.

Date.	Vessel.	Crew.	Passengers from this port.	Passengers in transit.
May 12	Belvernon.....	21	.....	.....
12	Heredia.....	79	13	36
12	Sibiria.....	85	.....	108
14	Bluefields.....	22	.....	.....
15	Fort Gaines.....	23	1	.....
18	Turrialba.....	81	76	6

WEEK ENDED MAY 24.

Date.	Vessel.	Crew.	Passengers from this port.	Passengers in transit.
May 19	Mount Vernon.....	20	.....	.....
19	Cartago.....	82	49	.....
20	José.....	31	3	.....
22	Fort Morgan.....	23	.....	.....
22	Beatrice.....	21	.....	.....
25	Abangarez.....	90	76	10

RUSSIA.

Cholera, Smallpox, and Typhus Fever—Examination of Emigrants.

Acting Assistant Surgeon De Forest at Libau reports, May 21:

Week ended May 20. At Ekaterinslav 9 cases of cholera with 1 death were reported, and at Kief 5 cases with 2 deaths; in the district of Bachmut 3 cases of cholera with 1 death and in the district of Leukoran 10 cases with 5 deaths. At Riga 27 cases of typhus fever with 5 deaths were reported, with a total in the district of Riga from February 25 to May 13 of 32 cases and 9 deaths. Smallpox was present in Libau during the week ended May 15 with 4 cases and 2 deaths.

For the steamship *Lituania*, sailing May 24, 1,451 emigrants have been examined. All will have been at Libau and under observation for the full 5 days at time of sailing. Two hundred and fifty pieces of baggage have been disinfected with formalin.

VENEZUELA.

LA GUAIRA—Inspection of Vessels.

Acting Assistant Surgeon Kellogg reports, May 8 and 15:

Vessels inspected as follows:

Week ended May 7. May 2, steamship *Zulia* for New York, crew, 45; passengers in transit, 3; passengers taken on, 8. May 5, steamships *Caracas* for San Juan, crew, 70; passengers taken, 11; and *Median* for Galveston, crew, 48; passengers in transit, 3; taken on at this port, 1. Pieces of baggage inspected, 4. No quarantinable disease reported at La Guaira or Maiquetia.

Week ended May 14. May 9, steamship *Guadeloupe* for Colon, crew, 173; passengers in transit, 352; passengers taken from this port, 6. May 10, steamship *Città di Milano* for Ponce, crew, 85; passengers in transit, 108; passengers taken from this port, 43. No quarantinable disease reported at La Guaira, Maiquetia, or Puerto Cabello.

ZANZIBAR.

ZANZIBAR—Examination of Rats for Plague Infection.

Consul Garrels reports, April 20:

During the two weeks ended April 21, 1,714 rats were received and 1,482 examined. No plague infection was found.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended June 10, 1910.

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

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Apr. 26-May 3.....	.....	2	
Moulmine.....	Apr. 10-16.....	1	1	
Rangoon.....	Apr. 17-23.....	.....	3	
Java:				
Batavia.....	Apr. 17-23.....	2	1	Apr. 14-May 1, 2 cases on s. s. Tamboura, en route to Sues and bound for Marsailles and Rotterdam.
Russia:				
Ekaterinislav, government.	Apr. 21-May 13....	47	8	Including cases previously reported.
Bachmut.....	May 13-20.....	3	1	
Leukoran.....	May 13-20.....	10	5	
Kief.....	May 13-20.....	5	2	
Siam:				
Bangkok.....	Mar. 29-Apr. 25...	6	6	

YELLOW FEVER.

Brazil:				
Manaos.....	May 1-7.....	.....	3	
Para.....	May 7-21.....	13	9	
Ecuador:				
Guayaquil.....	May 1-15.....	16	6	
Trinidad:				
Port of Spain.....	Apr. 10-16.....	1	1	

PLAGUE.

Chile:				
Iquique.....	May 1-7.....	5	1	
China:				
Canton.....	Apr. 17-23.....	5	3	
Hongkong.....	Apr. 17-23.....	1	1	
Ecuador:				
Guayaquil.....	May 1-15.....	3	.....
India:				
Bombay.....	Apr. 26-May 3.....	.....	257	
Kurrachee.....	Apr. 24-30.....	62	58	
Rangoon.....	Apr. 17-23.....	.....	24	
Japan:				
Formosa.....	Apr. 24-30.....	1	.....
Kobe.....	May 1-7.....	.....	1	
Siam:				
Bangkok.....	Mar. 29-Apr. 5....	23	22	
Straits Settlements:				
Singapore.....	Apr. 17-23.....	1	1	
Turkey in Asia:				
Basra.....	Apr. 27-30.....	3	1	
Jiddah.....	Apr. 3-22.....	28	29	

SMALLPOX.

Brazil:				
Para.....	May 7-21.....	7	2	
Canada:				
British Columbia—				
Fernie.....	May 22-28.....	5	.....
Victoria.....	May 15-21.....	1	.....
Ontario—				
Toronto.....	May 7-14.....	3	.....
Chile:				
Vina del Mar.....	Apr. 4.....	.....	.....	Present.

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

Reports Received During Week Ended June 10, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Canton.....	Apr. 10-23.....	10		Present.
Hongkong.....	Apr. 17-23.....	1	1	
Newchwang.....	Apr. 24-30.....			
Shanghai.....	May 12-18.....	2	4	
Colombia:				
Cartagena.....	May 1-15.....			Do.
Egypt:				
Alexandria.....	Apr. 1-30.....	8	3	
Germany, general.				
	May 8-14.....	7		
Gibraltar.				
	May 8-15.....	2		
Great Britain:				
South Shields.....	May 1-15.....	1	1	
India:				
Bombay.....	Apr. 26-May 3.....		38	
Kurrachee.....	Apr. 24-30.....	8		
Madras.....	Apr. 23-29.....		4	
Rangoon.....	Apr. 17-23.....		20	
Italy, general.				
	May 9-15.....	3		
Genoa.				
	May 1-15.....	2		
Naples.				
	May 9-15.....	13	1	
Japan:				
Formosa.....	Apr. 17-23.....	1	2	
Korea:				
Fusan.....	Apr. 3-30.....	4	1	
Manchuria:				
Dalny.....	Apr. 24-30.....	1		
Mexico:				
Aguascalientes.....	May 15-21.....		5	
Guadalajara.....	May 14-20.....		1	
Mexico.....	Apr. 24-30.....		3	
San Luis Potosi.....	Apr. 3-May 14.....	9	10	
Portugal:				
Lisbon.....	May 7-14.....	45		
Russia:				
Libau.....	May 2-15.....	24	2	
Moscow.....	Apr. 17-May 7.....	70	25	
Odessa.....	May 7-30.....	44	14	
Spain:				
Cadiz.....	Apr. 1-30.....		1	
Valencia.....	May 8-14.....	1		
Vigo.....	May 8-14.....		1	
Straits Settlements:				
Singapore.....	Apr. 17-23.....	15	6	
Turkey in Asia:				
Basra.....	Apr. 1-30.....			Do.

Reports Received from January 1 to June 3, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see PUBLIC HEALTH REPORTS for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Feb. 13-Mar. 12...	6		
Germany:				
Heydekrug.....	Nov. 19-Dec. 4....	2		
Niedrung.....	Nov. 16-22.....	1		
India:				
Bombay.....	Nov. 24-Apr. 26...		27	
Calcutta.....	Nov. 14-Apr. 16...		1,013	
Madras.....	Jan. 1-Apr. 1.....		5	
Moulmine.....	Jan. 22-Mar. 12...		15	
Negapatam.....	Jan. 30-Apr. 1.....		44	
Rangoon.....	Nov. 14-Apr. 9....		51	
Java:				
Batavia.....	Nov. 14-Apr. 16...	390	112	
Samarang.....	Feb. 1-Apr. 16....	506	263	
Soerabaya.....	Mar. 1-Apr. 16....	182	145	
Norway:				
Friedershalld.....	Dec. 31-Jan. 3....	1	1	From a vessel from Riga.

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

Reports Received from January 1 to June 3, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Astara.....	Dec. 1-15.....	36	22	
Philippine Islands:				
Manila.....	Nov. 7-Mar. 26.....	136	100	Third quarter, 1909. Cases, 82; deaths, 61.
Provinces.....				Third quarter, 1909. Cases, 3,946; deaths, 2,609.
Albay.....	Nov. 7-20.....	6	6	
Bataan.....	Nov. 7-Feb. 26.....	216	156	
Bohol.....	Nov. 7-Feb. 26.....	50	32	
Bulacan.....	Nov. 7-Mar. 19.....	33	27	
Camarines.....	Nov. 7-20.....	5	5	
Capiz.....	Nov. 21-Dec. 18.....	3	2	Jan. 1-Feb. 12, 50 cases from a coasting vessel.
Cavite.....	Nov. 7-Mar. 19.....	108	80	Nov. 20, 1 case on s. s. Yaptico.
Cebu.....	Nov. 7-Feb. 12.....	333	251	
Laguna.....	Dec. 19-25.....	4	4	
Leyte.....	Nov. 21-Jan. 15.....	36	32	
Misamis.....	Jan. 16-Feb. 19.....	42	40	
Oriental Negros.....	Nov. 7-20.....	10	5	
Pampanga.....	Nov. 7-Apr. 9.....	283	115	
Pangasinan.....	Mar. 13-26.....	2	2	
Rizal.....	Nov. 7-Jan. 22.....	11	7	
Tarlac.....	Nov. 7-13.....	9	5	
Russia, general.....	Nov. 21-Jan. 29.....	440	203	
Baku, government.....	Nov. 21-Dec. 25.....	22	22	
Baku.....	Nov. 21-Jan. 22.....	28	18	
Don, territory.....	Nov. 28-Jan. 29.....	19	12	
Ekaterinslav, government.....	Nov. 21-May 12.....	42	12	
Jaroslavl, government.....	Nov. 21-27.....	1	1	
Kaluga.....	Dec. 26-Jan. 1.....	1	1	
Kherson.....	Jan. 23-29.....	3	6	
Kostroma, government.....	Nov. 21-27.....	3	4	
Kovna, government.....	Nov. 21-27.....	8	3	
Kursk, government.....	Nov. 21-Dec. 11.....	6	6	
Moscow, government—				
Moscow.....	Nov. 29-Jan. 22.....	256	115	
Novotscherkask.....	Mar. 18.....	2	2	
Pskov, government.....	Nov. 21-27.....	10	10	
St. Petersburg, government.....	Nov. 21-Dec. 18.....	14	12	
St. Petersburg.....	Nov. 21-Jan. 1.....	53	12	
Taurida, government.....	Nov. 21-Dec. 25.....	66	28	
Vitebsk, government.....	Nov. 21-27.....	2	2	
Slam:				
Bangkok.....	Oct. 28-Mar. 18.....	17	17	
Siberia:				
Vladivostok.....	Nov. 16-21.....	1	1	
Straits Settlements:				
Singapore.....	Dec. 19-Jan. 15.....	4	4	
Sumatra:				
Palembang.....	Sept. 20-Oct. 20.....	936	675	

YELLOW FEVER.

Brazil:				
Manaos.....	Nov. 21-Apr. 30.....		79	
Para.....	Nov. 28-May 7.....	145	133	
Ecuador:				
Babahovo.....	Jan. 1-Mar. 31.....	6	2	
Guayaquil.....	Dec. 1-Apr. 30.....	183	68	
Gold Coast:				
Sekondi.....	May 16.....			Present.
Trinidad:				
Port of Spain.....	Apr. 10-12.....	2	2	
Peru:				
Callao.....	Nov. 2-Dec. 2.....	1	1	From s. s. Loa.
Mexico:				
Yucatan—				
Merida.....	Dec. 20-21.....	1	1	
Santa Cruz de Bravo.....	Dec. 20.....	1	1	
Nicaragua:				
Managua.....	Jan. 14-20.....		1	
Panama:				
Canal Zone—				
Ancon.....	Jan. 24.....		1	At Ancon Hospital, from s. s. Barbadian.
Culebra Island.....	Mar. 1-8.....	1	1	At Culebra quarantine station, from s. s. Huallago.

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

Reports Received from January 1 to June 3, 1910.

YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal: Lisbon.....	Apr. 3.....			Eight cases and 4 deaths on s. s. Rugia from Mansos and Para; 4 cases placed in quarantine.
Trinidad: Port of Spain.....	Nov. 28-Dec. 4....	1	1	
Venezuela: La Guaira.....	Mar. 1-Apr. 16....	6	6	

PLAGUE

Arabia: Aden.....	Jan. 21-23.....	1	1	From an Austrian mail steamer from Bombay. Present.
Loheja.....	May 17-23.....			
Brazil: Bahia.....	Nov. 20-Mar. 18....	61	35	One case from bark Amazone, Dec. 1. Feb. 2, present.
Para.....	Nov. 28-Apr. 23....	14	11	
Pernambuco.....	Oct. 15-Mar. 15....		26	
Rio de Janeiro.....	Nov. 2-Apr. 24....	17	3	
Santos.....	Nov. 1-Dec. 29....	5	3	
Chile: Antofagasta.....	Mar. 19.....	4		Apr. 2, 4 cases in the lazaretto.
Iquique.....	Jan. 1-Apr. 23....	123	42	
Santiago.....	Apr. 4.....	1		
Taltal.....	Jan. 15.....	2	1	
China: Amoy.....	Apr. 10-16.....		1	Feb. 1, again present.
Hankow.....	Nov. 27-Dec. 7....	20	20	
Hongkong.....	Nov. 21-27.....	1	1	
Ecuador: Babahoyo.....	Dec. 16-Feb. 15....	18	6	
Guayaquill.....	Dec. 1-Apr. 30....	268	104	
Milagro.....	Jan. 1-Mar. 31....	23	9	
Egypt: Alexandria.....	Nov. 19-Apr. 29....	11	6	
Port Said.....	Nov. 30-Dec. 22....	2	1	
Provinces— Assiout.....	Sept. 29-Apr. 29....	152	66	
Assouan.....	Apr. 23-29.....	1	1	
Behersch.....	Dec. 8-14.....	1		
Beni Souef.....	Dec. 16-Apr. 29....	39	16	
Fayoum.....	Jan. 20-Apr. 22....	24	19	
Galloobeh.....	Jan. 11-Apr. 22....	15	9	
Garbieh.....	Feb. 2-Apr. 29....	18	16	
Girzeh.....	Dec. 19-Apr. 1....	3	1	
Ghizeh.....	Dec. 19-Jan. 2....	2	2	
Kena.....	Feb. 3-Apr. 29....	73	78	
Menouf.....	Nov. 28-Dec. 15....	17	6	
Minieh.....	Dec. 21-Apr. 29....	64	30	
German East Africa: Mpwapwa.....	Sept. 19-Oct. 5....	7		
Hawaii: Hilo.....	Mar. 12-22.....	4	4	
Honokaa.....	Mar. 14-15.....	2	2	
India: Bombay.....	Dec. 27-Apr. 26....		1,750	
Calcutta.....	Nov. 20-Apr. 16....		455	
Kurrachee.....	Dec. 19-Apr. 23....	937	908	
Rangoon.....	Nov. 13-Apr. 16....		192	
Bombay Presidency and Sind.....	Nov. 7-Apr. 16....	26,196	18,720	
Madras Presidency.....	Nov. 7-Apr. 16....	1,420	1,006	
Bengal.....	Nov. 7-Apr. 16....	41,360	34,563	
United provinces.....	Nov. 7-Apr. 16....	130,822	121,975	
Punjab.....	Nov. 7-Apr. 16....	104,475	88,666	
Burma.....	Nov. 7-Apr. 16....	5,494	4,850	
Central provinces, including Berar.....	Nov. 7-Apr. 16....	27,317	21,510	
Coorg.....	Nov. 14-27.....	5	1	
Mysore State.....	Nov. 7-Apr. 16....	2,117	1,575	
Hyderabad State.....	Nov. 7-Apr. 16....	547	449	

* From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, May 11, 1910.

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

Reports Received from January 1 to June 3, 1910.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India—Continued.				
Central India.....	Nov. 7-Apr. 16....	2,014	1,375	
Rajputana and Ajmer-Merwara.....	Nov. 7-Apr. 16....	24,537	20,990	
Kashmir.....	Nov. 7-Apr. 16....	561	333	
Baluchistan.....	Apr. 10-16.....	16	8	
Grand total.....		366,881	316,021	
Indo-China:				
Saigon.....	Nov. 7-Dec. 25....	5	4	
Japan:				
Formosa.....	Mar. 20-Apr. 9....	2	2	
Kobe.....	Nov. 28-Apr. 30....	28	22	
Osaka.....	Jan. 1-Apr. 15....	4	2	
Shikoku Island.....	Jan. 30-Feb. 5....	1		
Paraguay.....	Dec. 10.....		30	In the northern part. Feb 21. endemic.
Feru:				
Arequipa, department.....	Dec. 10-Feb. 28....	8	3	
Mollendo.....	Dec. 20-Mar. 17....	14	5	
Cajamarca, department.....	Feb. 1-28.....	4	1	
Callao, department.....	Jan. 1-Feb. 28....	4	2	
Callao.....	Jan. 17-Feb. 7....	5		
Lambayeque, department.....	Oct. 1-Feb. 28....	192	40	
Pacasmayo.....	Mar. 19.....			Present:
Libertad, department.....	Nov. 19-Feb. 28....	106	32	
Lima, department.....	Oct. 22-Feb. 28....	32	14	
Lima.....	Feb. 11-25.....	1		Feb. 25, one case from s. s. Ammon.
Pisco.....	Feb. 19.....	1		From s. s. Ammon.
Piura, department.....	Jan. 1-Feb. 28....	9	8	
Persia:				
Bouchir.....	Mar. 24-Apr. 2....	2	1	
Mauritius:				
Mauritius.....	Dec. 18-Jan. 27....	120	70	
Russia:				
Astrakan government.....	Dec. 5-Feb. 27....	134	120	
Naourzali-Tehagil.....	Jan. 17-Feb. 2....	26	26	
Beiskulak.....	Dec. 10-16.....	18	16	
Bodal.....	Feb. 14-Mar. 1....	23	21	
Dshedda.....	Jan. 7.....			Present.
Libau.....	Dec. 3-9.....	1	1	
Novais-Kazanka.....	Feb. 20-Mar. 3....	13	11	
Uralsk, district.....	Nov. 25-Jan. 12....	260	202	
Siain:				
Bangkok.....	Oct. 28-Mar. 28....	78	72	
Phrapatom.....	Feb. 15.....			Epidemic.
Straits Settlements:				
Singapore.....	Dec. 25-Jan. 1....	2		
Trinidad:				
Port of Spain.....	Apr. 20-27.....	3		On plantation 10 miles from city.
Turkey in Asia:				
Basra.....	Apr. 27.....			Present.
Beirut.....	Nov. 29-Apr. 9....	4	1	
Jiddah.....	Jan. 5-Apr. 17....	88	85	
Venezuela:				
Puerto Cabello.....	Feb. 24.....	2		
Zanzibar.....	Nov. 9-17.....	2	2	

SMALLPOX.

Abyssinia:				
Adis Ababa.....	Feb. 19-Apr. 23....			Present.
Algeria, general:				
Algiers.....	Dec. 1-15.....	22		
Bona.....	Nov. 1-Jan. 31....		3	
Bona.....	Dec. 1-Apr. 30....	16	11	
Arabia:				
Aden.....	Feb. 15-21.....		1	
Maskat.....	Apr. 3-23.....	1		
Argentina:				
Buenos Aires.....	Oct. 1-Feb. 28....		161	Feb. 1-28, 70 cases.
Rosario.....	Dec. 1-Mar. 31....		2	

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

Reports Received from January 1 to June 3, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria:				
Bohemia.....	Feb. 20-Apr. 2....	4		
Galicia.....	Jan. 1-Apr. 30....	21		
Silesia.....	Apr. 10-16.....	1		
Vienna.....	Jan. 9-29.....	2		
Brazil:				
Bahia.....	Nov. 20-Mar. 25....	440	296	
Para.....	Jan. 31-Mar. 5....	1		
Pernambuco.....	Oct. 16-Mar. 15....		461	
Rio de Janeiro.....	Nov. 2-Feb. 27....	25	1	
Sao Paulo.....	Nov. 1-21.....		2	
Canada:				
British Columbia—				
Vancouver.....	Jan. 1-Mar. 31....	7		
Victoria.....	Apr. 24-May 14....	2		
New Brunswick—				
Campbelltown.....	May 10-16.....		1	
Nova Scotia—				
Halifax.....	Dec. 19-May 14....	20		
Windsor.....	Dec. 1-Jan. 31....	40		
Ontario.....				
Hamilton.....	Apr. 10-16.....	1		
Port Arthur.....	Mar. 11-19.....	5		
Toronto.....	Jan. 2-May 17....	11		
Ceylon:				
Colombo.....	Feb. 6-Apr. 9....	8		
Chile:				
Antofagasta.....	Jan. 1.....			Present. Apr. 16, 7 cases in lazaretto.
Quillota.....	Nov. 28-Dec. 4....			Present.
Valparaiso.....	Mar. 26-Apr. 16....	8		Nov. 20-Jan. 1, present.
China:				
Amoy, Kulangsu.....	Nov. 28-Apr. 2....		19	Apr. 16, present.
Canton.....	Dec. 12-Mar. 26....	150	17	
Chang Cheun.....	Dec. 11.....			Present.
Chio Be.....	Dec. 11.....			Do.
Hankow.....	Jan. 2-Apr. 9....	8	3	Dec. 19-Feb. 26, present among natives.
Hongkong.....	Feb. 5-Apr. 9....	21	9	Feb. 19, 1 case from a steamship from Amoy.
Nanking.....	Feb. 20-26.....		1	Mar. 12, present.
Shanghai.....	Nov. 1-Apr. 17....	11	73	Deaths among natives.
Swatow.....	Apr. 6.....			Epidemic. Feb. 19, 1 death from a steamship from Amoy.
Tsingtau.....	Apr. 3-9.....	4		
Cuba:				
Habana.....	Dec. 3-9.....	1		From s. s. La Navarre.
Ecuador:				
Guayaquil.....	Jan. 1-31.....	3		
Egypt, general:				
Alexandria.....	Nov. 5-Feb. 18....	749	187	
Calro.....	Nov. 5-Jan. 21....	20	19	
Port Said.....	Nov. 26-May 6....	43	15	
Mar. 19-Apr. 22....		3		
France:				
Nantes.....	Jan. 1-Mar. 31....	2		
Paris, general.....	Dec. 5-May 7....	167	18	
Germany, general:				
Bremen.....	Dec. 5-May 7....	178		
Konigsberg.....	Feb. 27-Apr. 2....	2		
Dec. 12-Apr. 23....		3	2	Dec. 18, 1 fatal case in vicinity.
Great Britain:				
Bristol.....	Feb. 6-Mar. 26....	4		Mar. 13-26. 2 cases on steamship from Bombay.
Glasgow.....	Apr. 23-29.....	1		
Greenock.....	Feb. 6-12.....	1		
Hull.....	Jan. 16-Apr. 30....	2	1	
Liverpool.....	Dec. 19-Apr. 9....	10		
London.....	Nov. 28-Mar. 5....	21		
Newcastle-on-Tyne.....	Feb. 13-Mar. 5....	3	1	
Nottingham.....	Jan. 16-Apr. 16....	5	1	
Plymouth.....	Nov. 12-18.....	1		
Sheffield.....	Mar. 27-Apr. 9....	5	1	
Southampton.....	Nov. 12-18.....	1		
South Shields.....	Feb. 13-19.....	1		
Greece:				
Athens.....	Nov. 22-Mar. 26....		21	

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

Reports Received from January 1 to June 3, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii:				
Honolulu.....	Jan. 31-Apr. 15....	5	1	2 cases Jan. 31 from U. S. S. Washington from Yokohama. 1 case Feb. 2 on s. s. Makura. 1 case Apr. 9 on s. s. Manchuria from the Orient. Case Apr. 15 on U. S. S. Albatross from Yokohama.
India:				
Bombay.....	Nov. 24-Apr. 26.....		795	
Calcutta.....	Nov. 14-Apr. 16.....		32	
Kurrachee.....	Jan. 2-Apr. 16.....	22	6	
Madras.....	Dec. 18-Apr. 22.....		10	
Rangoon.....	Nov. 20-Apr. 16.....		284	
Indo-China:				
Saigon.....	Dec. 7-13.....	1		
Italy, general.....	Nov. 29-May 8.....	389		
Genoa.....	Dec. 1-Apr. 30.....	23	1	
Milan.....	Jan. 1-16.....	1		
Naples.....	Dec. 6-May 8.....	344	54	
Turin.....	Apr. 22-28.....	2	1	
Japan:				
Formosa.....	Feb. 6-Apr. 16.....	100	3	
Kobe.....	Dec. 12-Apr. 16.....	2	1	Apr. 21-27, 1 case on s. s. Mongolia between Kobe and Yokohama.
Nagasaki.....	Apr. 6-27.....	2		Apr. 6, 1 case on s. s. Asia from Hongkong. Apr. 21-27, 1 case on s. s. Mongolia from Hongkong.
Yokohama.....	Mar. 22-Apr. 12.....	2		Mar. 22, 1 case on s. s. Ferd. Laeisz from Hamburg. Apr. 12, 1 case from s. s. Asia, from Hongkong, via Nagasaki.
Java:				
Batavia.....	Dec. 12-Feb. 12.....	9	1	
Korea:				
Fusan.....	Jan. 26-Mar. 12.....	9	2	
Imyokyo.....	Feb. 26.....			Present.
Liberia:				
Monrovia.....	Nov. 28-Dec. 4.....	6		
Malta:				
Valetta.....	Dec. 12-Apr. 30.....	4	2	
Manchuria:				
Tie-ling.....	Feb. 19.....			Do.
Mexico:				
Acapulco.....	Apr. 17-23.....	1		In vicinity in a R. R. camp.
Agascalientes.....	Dec. 12-May 14.....		80	
Chihuahua.....	Dec. 13-Mar. 27.....	16	9	
Guadalajara.....	Jan. 29-Apr. 30.....		8	
Manzanillo.....	Mar. 1-6.....	5		
Mexico.....	Nov. 14-Apr. 16.....		27	
Monterey.....	Nov. 13-Apr. 10.....		4	
Rincon Viejo.....	Mar. 1-31.....			Do.
Salina Cruz.....	May 10-16.....	1		Do.
Santo Domingo.....	Mar. 1-31.....			Do.
Veracruz.....	Feb. 13-19.....	1		
Newfoundland:				
St. Johns.....	Apr. 3-9.....	1		
New Province:				
Nassau.....	Apr. 2.....	1		From s. s. Vigilancia.
Netherlands:				
Rotterdam.....	Dec. 5-11.....	7		
Persia:				
Arabistan.....	Dec. 6-31.....			Present.
Bender Gez.....	Feb. 20-Mar. 13.....			Do.
Enzeli.....	Jan. 9-Feb. 2.....			Do.
Hamadan.....	Nov. 15-Dec. 31.....			Do.
Kasbin.....	Jan. 5-Feb. 3.....			Do.
Kurdistan.....	Dec. 6-31.....			Do.
Laristan.....	Dec. 9-15.....			Do.
Mohammerah.....	Jan. 9-Feb. 2.....			Do.
Sultanabad.....	Nov. 15.....			Do.
Teheran.....	Nov. 1-Dec. 2.....			Do.
Peru:				
Callao.....	Dec. 6-12.....			Do.
Philippine Islands:				
Manila.....	Nov. 14-Apr. 2.....	70		Third quarter, 1909, cases, 5; deaths, 0.

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

Reports Received from January 1 to June 3, 1910.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	Dec. 5-May 7.....	401		
Porto Rico, general.....	July 1-Dec. 31.....	72	12	
Russia:				
Batoum.....	Dec. 1-31.....	5		
Libau.....	Dec. 6-May 1.....	85	6	
Moscow.....	Nov. 21-Apr. 16.....	374	124	
Odessa.....	Nov. 21-Apr. 30.....	640	123	
Riga.....	Dec. 5-May 7.....	75		Oct. 1-Feb. 28, 28 deaths.
St. Petersburg.....	Nov. 28-Apr. 23.....	945	260	
Saratov.....	Mar. 19-25.....			Epidemic.
Warsaw.....	Oct. 24-Mar. 5.....		281	
Siam:				
Bangkok.....	Nov. 28-Mar. 28.....	13	12	
Siberia:				
Vladivostok.....	Jan. 15-Feb. 13.....	6	2	
Spain:				
Almeria.....	Jan. 1-Mar. 31.....		22	
Barcelona.....	Dec. 14-May 9.....		47	
Cadiz.....	Jan. 1-31.....		1	
Huelva.....	Nov. 1-Mar. 30.....		21	
Madrid.....	Dec. 1-Apr. 30.....		70	Report for February not received.
Seville.....	Dec. 1-Apr. 30.....		22	
Tarragona.....	Feb. 20-28.....		1	
Valencia.....	Jan. 9-May 7.....	25		Mar. 5-19, present in vicinity.
Vigo.....	Jan. 23-May 7.....		4	
Straits Settlements:				
Singapore.....	Jan. 22-Apr. 9.....		18	
Tripoli:				
Tripoli.....	Nov. 14-Dec. 25.....	242	24	
Turkey:				
Constantinople.....	Jan. 2-Feb. 6.....		2	
Turkey in Asia:				
Bagdad.....	Nov. 21-Feb. 26.....			Present.
Salonica.....	Jan. 1-31.....		3	
Smyrna.....	Nov. 5-Dec. 31.....		42	
Trebizond.....	Mar. 5.....			Do.
Uruguay:				
Montevideo.....	Oct. 1-Feb. 28.....		124	Feb. 1-28, 99 cases.
Venezuela:				
La Guaira.....	Mar. 1-15.....	1		

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	May 14	185,703	47									1		1
Aguascalientes	May 21	40,000	84	1										
Aix la Chapelle	May 7	161,985	8											3
Amsterdam	May 21	569,948	153	19										
Antwerp	May 14	326,351	88	8										3
Athens	May 9	250,000	110	26										
Do	May 14		73	16										
Barcelona	May 16	591,272	375	25										
Barmen	May 14	163,700	34	4										2
Basel	do	112,246	42	8										
Bassorah	Apr. 30	20,000			1									
Batavia	Apr. 23	217,630				1								
Berlin	Apr. 30	2,127,778	526	83						1	10	13	13	5
Bombay	May 3	977,622	876	68	257			38						
Bordeaux	May 7	253,000	67	12										
Do	May 14		85	16						1				
Berlin	May 7	2,127,778	543	87							10	23	9	7
Birmingham	May 21	570,113	111								1			
Bremen	May 14	235,648	70	12										1
Bristol	May 21	382,550	70	6								1		1
Brussels	May 7	720,030	226	23							1	1	5	4
Do	May 14		148	13						3	1			
Budapest	May 8	950,610									3	1	7	4
Do	May 15										3	1	8	1
Canton	Apr. 16	1,000,000	150	10						3				
Chemintz	May 14	233,350	85	6							1			
Chihuahua	May 22	37,000	46	3						1				
Cologne	May 14	511,353	152	22						1	1			2
Colombo	Apr. 23	187,564	87	11						3				
Constantinople	May 15	1,000,000	201	35							2		3	
Dalry	Apr. 30	41,147	47							1				
Dresden	May 14	553,900	159	18							1	3		4
Dundee	May 21	170,206	67	4									22	3
Edinburgh	May 14	360,276	91	10									3	
Frankfort on the Main	do	406,000	116										2	3
Gothenburg	May 7	164,000	53	11								2		1
Do	May 14		39	3										1
Guadalajara	May 20	125,000	130					1				5		
Hamburg	May 7	895,804	239	24						1		10	5	2
Do	May 14		247	33						1	2	9		1
Havre	do	132,430	64	12										1
Hongkong	Apr. 23	337,488			1			1						
Hull	May 14	280,006	76									1	1	4
Do	May 21		80								1	1		2
Iquique	Apr. 29	38,382	5							1				
Do	May 7		8		4									
Kobe	do	387,915	137		1								1	
Konigsberg	May 14	244,200	90									1	1	
Kurrachee	Apr. 30	130,000	100		58									
La Guaira	do	10,000	19							1				
Leeds	May 14	490,985	124	6							1	3		1
Do	May 21		127	5						1			1	6
Leipzig	May 14	590,329	160	22						2		2		1
Liban	May 8	90,000												
Do	May 15							2			2			
Liege	May 7	177,234	38	5									1	
Liverpool	May 14	767,606	241	20							3	2	16	17
Do	May 21		224	22						1	2	2	15	13
London	May 14	7,537,196	1,756							3	7	15	70	42
Lubeck	do	96,000	26	4									1	
Madras	Apr. 29	550,000	387					4					3	
Magdeburg	May 7	277,400	82	8									1	
Manaos	do	52,000	36	6				3						
Manchester	May 14	631,533	264	22						2	3	1	11	21
Mexico	Apr. 30	500,000	411	20						3	14	14	2	4
Monterey	May 22	100,000	81	7						3	1	1		2
Montreal	May 28	530,000	157	19						1	3	1	1	2
Moscov	Apr. 23	1,500,000	726	106				9	6	1	17	19	25	8
Do	Apr. 30		742	89				10	3	3	18	18	26	14
Do	May 7		734	93				6	2	2	19	25	30	9

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Nagoya.....	Apr. 23	389,761	118									1		
Do.....	Apr. 30		109									2		
Nantes.....	Apr. 29	161,908	74	17							1		1	
Do.....	May 8		58	17									1	
Do.....	May 16		82	19							1			
Do.....	May 22		65	16										
Odessa.....	May 1	520,000	173	21				3	1	3	5	7	1	3
Do.....	May 7		173	24				7	1	1	6	2	4	1
Do.....	May 14		229	33				4	1	1	4	6	8	1
Para.....	do	185,000	111	10			8	1						
Do.....	May 21		98	8			1	1					2	
Naples.....	May 14	593,729	293				1	1				4		
Newcastle on Tyne.....	May 7	285,891	80	13										2
Do.....	May 14		72									1		2
Nottingham.....	do	260,000	88										1	2
Port of Spain.....	Apr. 16	60,000	34	4			1			1			1	1
Prague.....	May 7	233,344	82	20										1
Do.....	May 14		93	20									1	1
Rangoon.....	Apr. 23	252,155	193	8	24	3		20					1	
St. Petersburg.....	Apr. 30	1,678,000	964	127				13	2	14	14	18	93	12
San Luis Potosi.....	Apr. 9	82,749	70	6							2			
Do.....	Apr. 16		57	7							1			
Do.....	Apr. 23		59	7						1	3	1	1	
Do.....	Apr. 30		62	6					1		4			
Do.....	May 7		58	1				3	1				1	1
Do.....	May 14		55	7							1			
Santa Cruz de Teneriffe.....	do	46,000	31	2						1	5	3		3
Sheffield.....	May 7	472,000	96	9							1			3
Do.....	May 14		135	12							1	1		9
Singapore.....	Apr. 23	271,060	159	25	1			6					1	2
Stettin.....	May 14	239,000	71	7						1			1	2
Stockholm.....	Apr. 30	341,816	128	21						1	7	3	4	3
Do.....	May 7		121	27						1	7	4	3	
Talcahuana.....	Apr. 16	28,000	9	2						2	3			
Do.....	Apr. 23		6							2	2		2	
Tarragona.....	May 14	20,400	8							1				
Trieste.....	do	80								1				1
Turin.....	Apr. 21	391,968	172	22						1		3		2
Do.....	Apr. 28		103	20				1			3	3	3	
Do.....	May 5		157	19						2	1	3	1	5
Valencia.....	May 7	240,000	116	5							1	1	1	
Do.....	May 14		101	9								1		1
Venice.....	Apr. 16	183,224	64	4									1	
Do.....	Apr. 23		70	3						1			2	
Vienna.....	May 7	2,107,981	808	133						3	3	6	41	12
Do.....	May 14		706	119						5	3	8	26	3
Vigo.....	May 7	40,000	10	2				1		2				
Do.....	May 14		11	3				1						
Vladivostok.....	Apr. 4	90,162	18	1							2			
Warsaw.....	Mar. 5	764,054	308	37				9		2	3	3	3	4
Winnipeg.....	May 21	122,000	15	6							1	1	1	
Yokohama.....	May 2	407,432		1						1				
Do.....	May 9			2								1		

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

ALGERIA—*Algiers*.—Month of April, 1910. Population, 152,358. Total number of deaths from all causes 333, including typhus fever 21, measles 1, tuberculosis 59.

ARGENTINA—*Rosario*.—Month of March, 1910. Population, 178,284. Total number of deaths from all causes 79, including

typhoid fever 18, smallpox 1, scarlet fever 2, diphtheria 14, tuberculosis, 44.

AUSTRIA—*Brunn*.—Month of March, 1910. Total number of deaths from all causes 237, including typhoid fever 3, scarlet fever 2, diphtheria 2, tuberculosis 46.

BRAZIL—*Pernambuco*.—Two weeks ended March 31, 1910. Population, 210,000. Total number of deaths from all causes 476, including smallpox 62, measles 1, tuberculosis 68.

Rio de Janeiro.—Two weeks ended April 24, 1910. Population, 850,000. Total number of deaths from all causes 640, including plague 1, tuberculosis 128.

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

DUTCH GUIANA—*Paramaribo*.—Month of April, 1910. Population, 36,496. Total number of deaths from all causes 85. No contagious diseases.

ECUADOR—*Guayaquil*.—Month of April, 1910. Population, 70,000. Total number of deaths from all causes 254, including typhoid fever 1, plague 2, yellow fever 2, tuberculosis 5.

FORMOSA.—Two weeks ended April 30, 1910. Population, 3,132,335. Total number of deaths from all causes, not reported. One death from typhoid fever, 2 deaths from smallpox, and 2 from diphtheria reported.

FRANCE—*Nantes*.—Month of April, 1910. Population, 122,800. Total number of deaths from all causes 300, including typhoid fever 4, tuberculosis 75.

Nice.—Month of March, 1910. Population, 150,881. Total number of deaths from all causes 262, including diphtheria 4, tuberculosis 29.

St. Etienne.—Two weeks ended April 30, 1910. Population, 150,000. Total number of deaths from all causes 135, including typhoid fever 1, measles 2, tuberculosis 17.

GREAT BRITAIN.—Week ended May 7, 1910.

England and Wales.—The deaths registered in 77 great towns correspond to an annual rate of 13.1 per 1,000 of the population, which is estimated at 16,940,895.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 20.1 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Dundalk, viz, 4, and the highest at Kilkenny, viz, 44.2, per 1,000.

Scotland.—The deaths registered in 8 principal towns correspond to an annual rate of 15.6 per 1,000 of the population, which is estimated at 1,864,194. The lowest rate was recorded at Leith, viz, 9, and the highest at Dundee, viz, 24.8, per 1,000. The total number of

deaths from all causes was 564, including typhoid fever 1, measles 52, scarlet fever 7, diphtheria 4.

INDIA—*Rangoon*.—Month of March, 1910. Population, 295,803. Total number of deaths from all causes 911, including smallpox 142, plague 91, tuberculosis 22.

ITALY—*Genoa*.—Four weeks ended May 15, 1910. Population, 279,163. Total number of deaths from all causes 449, including measles 2, diphtheria 1, tuberculosis 68.

SPAIN—*Cadiz*.—Month of April, 1910. Population, 69,382. Total number of deaths from all causes 214, including typhoid fever 4, smallpox 1, scarlet fever 2, diphtheria 1, tuberculosis 19.

Madrid.—Month of April, 1910. Population, 595,586. Total number of deaths from all causes 1,265, including typhoid fever 6, typhus fever 24, smallpox 5, measles 6, scarlet fever 3, diphtheria 9, tuberculosis 159.

Seville.—Month of April, 1910. Population, 154,315. Total number of deaths from all causes 458, including smallpox 4, tuberculosis 77.

TURKS ISLANDS.—Four weeks ended May 14, 1910. Population, 1,800. Total number of deaths from all causes, 6. No deaths from contagious diseases.

By authority of the Secretary of Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.