PUBLIC HEALTH REPORTS.

Vol. XXV.

APRIL 1, 1910.

No. 13.

A PARASITIC AND A PREDATORY ENEMY OF THE FLEA.

By M. B. MITZMAIN, B. S., Assistant, Plague Laboratory, Public Health and Marine-Hospital Service, San Francisco, Cal.,

A suggestion of the presence of a parasite on the flea is advanced by Burnett Ham in "A Report on Plague in Queensland" 1900, page 160. He relates the finding of a mite (Holaspis sp.), a Gamasid, on the brown rat. Ham states that the occurrence of this mite on rats may be accounted for by the fact that it is predatory on insects and may

be partial to rat fleas.

There has come to the writer's notice in the literature on American Siphonaptera, a single instance of a parasite of a flea. Passed Asst. Surg. Carroll Fox, of the United States Public Health and Marine-Hospital Service, placed on record (Entomological News, July, 1909) a note describing a new mite, the hypopial stage of a Gamasus, found on Ceratophyllus fasciatus Bosc., the common brown rat flea of San Francisco. Fox, who examined nearly 20,000 rat fleas found but 3 nstances of this unique parasitism in Siphonaptera. He made an attempt to transfer this mite from flea host to flea, but unfortunately lost the specimen in the attempt.

Prior to the note in the Entomological News, the writer encountered one instance of the flea mite in an examination of thousands of preserved and live specimens. However, since the appearance of Fox's article, 4 specimens were found on a flea (C. fasciatus) of the brown rat in San Francisco. These mites, we learned subsequently, were of the same species as that found previously by the writer. Fox, who compared these mites with those he collected, found that they differed essentially. The mite described by Fox has shorter tarsi and there are fewer bristles on the legs. It is on the average somewhat smaller in size and less globular in form than that observed by the present writer.

Mites of the species under consideration have recently been found on fleas collected from squirrels shot in Solano County, 60 miles from San Francisco. Fifteen fleas of the species, *C. acutus*, were found infested. We doubt not that the fleas in squirrel burrows often harbor these mites under natural conditions.

Nathan Banks identified this mite as a member of the *Tyrogly-phidae*, a new species of *Histiostoma*, to be described by him under the name of *II. tarsalis*. This acarologist states that most of the

393

April 1, 1910 394

known species have been taken in decaying matter; one, however, in England, was taken from a mole's nest. In his Revision of the Tyroglyphidae of the United States (Bulletin of the Department of Agriculture, Technical Series 13) one species of the genus Histiostoma, H. brevipes Banks, is recorded as occurring on the larva of the locust borer, Cyllene robiniae. The hypopial stage of another of this genus (H. muscarum) is recorded by the same author as being attached to house flies. (A Treatise on the Acarina, or Mites. Proc. U. S. Nat. Mus., vol. 28, No. 1382, p. 82.)

For the benefit of the reader we may give here the transformations through which these *Turoglyphids* pass. This outline we abstract from

the work of Banks:

The young, which hatch from eggs, are 6-legged, obtaining 2 more legs at the initial moult. This is the octopod nymph, which may often pass through what is called a hypopus. The body of the latter is hard and chitinous; there is no mouth orifice and there are no distinct mouth parts. By means of sucking disks the hypopus attaches itself to an insect or other creature and is transported to some other locality, where it may find a suitable breeding place. The hypopus is thus a stage in the life of the mite for the purpose of migration. This molts into an octopod nymph, which will feed and develop into an adult mite. The technical description of our new mite we leave to Nathan Banks. A general description, however, may assist us in the present discussion.

The hypopial stage of the mite under discussion is waxy-white in color, nearly translucent, and fairly covered with long moist filamentous bristles, which project from the body and the slender tarsi. In form it bears a striking resemblance to a scale insect. The tarsi, which are unique in this species of mite, are unusually long and delicate. The hind pairs are held nearly horizontal from the body and the anterior ones are extended above the head almost vertically.

The movement of the hypopus is very deliberate and painstaking, and when it is once fastened by the sucking disks to the host it is extremely difficult to dislodge it. The size of these creatures varies but slightly. The average dimensions of 10 specimens were 0.24 mm.

long, by 0.14 mm. wide, by 0.06 mm. thick.

The adult mite, which develops in 4 to 5 weeks from the larval form, is an extremely active *Tyroglyphid*, differing markedly from the younger stage. It has 8 well-formed legs, and the mouth parts, in contrast to the hypopus, are powerful and evidently built for piercing. In color the adult is a light yellow with slightly darker legs and proboscis. The average size, taken from the measurements of 10 specimens, was 0.40 mm. by 0.25 mm.

An attempt was made to breed the new mite. For this purpose a flea infested with the mites was placed with 50 noninfested fleas of the same species (*C. fasciatus*) on a brown rat in a cage trap, inclosed in a

breeding box of sawdust.

In a few weeks the bedding of the nest was examined and found swarming with minute forms. These tiny creatures bred in such overwhelming numbers that the breeding cages were soon overrun with myriads of the young mites. Particles of food, which dropped to the breeding nests from the wire cages, were literally covered and alive with the Tyroglyphids. It was seen, in a short time, that the invaders formed an impediment in the development of the fleas. We found that a large number of the larvæ of the rat fleas had been developed.

395 April 1, 1910

These were examined alive microscopically and many adult fleas were likewise inspected. The fleas were observed to be generally infested with the tiny mites, which were found clinging to the spines of the legs and hairs of the body segments. One was seen securely attached to the base of the antennæ. In this breeding cage the greatest number found on one flea was 10, the average number of mites on 200 fleas examined was 3. The flea larvæ were more extensively infested than the adults, the great majority being almost covered. One larva was selected and the mites were counted while the host was under the influence of ether. There were 26 mites, covering the segments of the body and thorax.

These mites have been seen by us on the adult flea (*C. acutus*, *C. fasciatus*, and *L. cheopis*) in various situations. They have been found on all of the body segments, as well as on the legs, especially the posterior pair. One specimen was found in the antennal groove of a male *C. fasciatus*. The antennæ of the flea were projecting, exposing the ear-like groove in which the hypopus was lodged.

The sucking disks of these mites are extremely tenacious. When the fleas are killed by an anæsthetic, the mites do not lose their hold, though apparently stupefied. They are forced to relinquish their perch only when their hosts are put through the process of clearing

and dehydrating.

As far as the flea host is concerned, the mites are not a serious impediment, unless they accumulate in numbers sufficient to obstruct the spiracles. When but a few of the parasites are present, the infested flea appears to be quite unhampered by the addition of the hypopus, which moves clumsily from segment to segment until it forms an attachment on the leathery shell of its host. Under these circumstances the normal activities and length of life do not seem to be influenced by the invading mite.

The following table gives the impression that the fleas slightly infested live as long, under the same conditions, as fleas free of mites:

Day.	Fleas with mites.	Fleas used as a control (free from mites).
First Second. Third Fourth Sixth Sixth Seventh Eighth Tenth	19 fleas alive	15 fleas alive. 11 fleas alive. 5 fleas alive. 3 fleas alive. 2 fleas alive.

These fleas (*C. acutus*), including the noninfested controls, were removed at the same hour from a squirrel kept in the laboratory to serve as a host for the squirrel fleas. In testing the longevity, the insects were segregated into vials and kept in the dark without food. When the infested fleas died, they were examined microscopically and the extent of the infestation was noted. On the 22 fleas under observation the mites were found to average 3, ranging from 1 to 11 per flea.

Although we have taken adult mites of the *Histiostoma tarsalis* from the fleas, we are not prepared to state that the mite is a true parasite, since we have never seen it in the act of feeding. Extreme

April 1, 1910 396

infestation proving fatal often occurs however; the best example of this, which has come to our notice, was seen in a specimen of the squirrel flea, Ceratophyllus acutus, found in the breeding nest in a helpless condition, unable to jump. At first glance the flea seemed to be sprinkled with a coat of gravish dust particles. These on close inspection proved to be living forms. When examined microscopically, the identity of the flea seemed to be quite lost in a covering of Tyroglyphid parasites, which took full possession of every available Every segment harbored rows of them; the legs were clothed with them; and the head and rostrum, even the eyes, were covered with the infesting mites. It was apparent that, aside from the additional weight the flea supported, it was rendered helpless through the obstruction of the tracheal system, the abdominal spiracles of which at least were covered by the barnacle-like forms. The flea selected for this study died in 36 hours after removal from the squirrel nest. While under observation, it did not attempt to walk or jump, but lay helpless on its side, struggling occasionally in an effort to free itself from its unwelcome burden.

It was found by actual count that the host in this instance harbored 98 of the hypopial mites. These at the time of death of the Pulicid were almost synchronously aroused to action. In bestirring themselves from their inactive condition one would imagine that a state of demoralization had seized them, for they were seen to pry free the sucking disks, loose their perch, and move away from the dead host. When observed through the lens the mites were found to be in various stages of molting; the majority of them were found to be partially free from the scale-like crust of the integument, dragging the cast-off skin by the caudal portion. When the molted skin was examined. it was seen that besides the other appendages, the sucking disks were molted in their entirety. It was also noticed that the hind legs and mouth parts, which heretofore were mere vestiges, were considerably developed. The bristles on the tarsi were shortened in the molt; the bristles on the last tarsi which, prior to the change were longer than the body, appeared now much shortened. In general, the color of the cuticle was changed to a light brown.

The most significant change in the molting process appears to be the correlation of the shedding of the sucking disks with the change of the hypopus to an octopod nymph. It may be stated here that it has occurred to us that the peculiar hypopial stage spent on the body of the flea may be explained in that an attachment is formed for a very active insect, because it is necessary for the mite to get rid of the hard shell of the body before its full development can be attained. Furthermore, we have observed in the study of these Tyroglyphids that although other insects like the flies and beetles are present in various stages in the bedding of the breeding cages, the mite appears to strongly favor the fleas and their larvæ.

RÔLE OF A BEETLE IN THE DESTRUCTION OF FLEAS.

We have now to consider another enemy of the flea, inimical to its life in a more direct manner. Live squirrels which were trapped in San Mateo County, when received at the plague laboratory were accompanied in several instances by a species of *Staphylinus* beetle. Several of these beetles were collected with the fleas at the time the

397 April 1, 1910

squirrels were combed of parasites. It was noticed in a short time that when the beetles were placed in the vials with fleas the latter disappeared very rapidly. The vials were more closely observed when it was obvious that the beetles were predatory to a striking

degree.

The beetle was observed to run aimlessly in an excited manner toward a group of the squirrel fleas, and when a body's length from the nearest flea was seen to rise on the hind legs and with a darting movement pounce on the quarry; then with a snap of the mandibles tear the flea in two. The body of a flea would then be torn to bits, and the invader prepared in a moment to seize the next victim. The movement of springing was peculiarly snake-like, always accompanied by a quick dart of the head. The beetle at each attack would tear and devour a flea until presumably satiated, and then continue to snap at each flea as it appeared in its way, leaving a trail of mangled and dismembered parasites.

In this fashion 5 beetles were observed to render helpless 97 adult fleas in a period of less than five minutes. A single beetle was starved for one day, then placed in a vial with 20 fleas, and permitted to play havoc with the unresisting parasites. In one minute and forty seconds all of the fleas were rendered helpless, either devoured entirely

or fatally mangled.

Ten of the Staphylinus were retained for breeding purposes. It was found that a diet exclusively of hard-shelled Pulicids was not the most favorable for sustaining life, for on the fourth day the fleas no longer appealed to them as an article of diet, and the beetles did not survive the artificial environments presented. Although other insects were found in the material from the squirrel nest, the adult fleas were the only ones selected for attack; as far as we could determine, no instance was observed where the flea larvæ were molested. The rat flea (Ceratophyllus fasciatus) was subject to destruction in substantially the same degree as the squirrel flea (C. acutus).

UNITED STATES.

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

PLAGUE-PREVENTION WORK.

Infected Ground Squirrels.

A second infected ground squirrel was found March 4, 1910, in Oakland Township.

Passed Assistant Surgeon McCoy reports:

Summary of examinations at the plague laboratories at San Francisco and Oakland, Cal.

Week ended March 12. Rodents examined as follows: Mus norvegicus, 1,832; Mus rattus, 115; Mus alexandrinus, 73; Mus musculus, 514; ground squirrels, 2,843; gophers, 95; rabbits, 40; weasels, 4; total, 5,516. One infected squirrel was found in Alameda County.

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 March 12, 1910. Premises inspected, 1,361. Houses destroyed, 8. Nuisances abated, 199. Poisons placed, 6,010. Rats trapped, 1,920. Rats found dead, 25. Gophers trapped, 10. Squirrels trapped, 2. Rats identified, 1,945, as follows: Mus norvegicus, 1,374; Mus rattus, 110; Mus musculus, 392; Mus alexandrinus, 69. Examined bacteriologically 1,565 rats, 10 gophers, and 2 squirrels. No plague infection found.

OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last case

of rodent plague trapped December 1, 1908.

Week ended March 12, 1910. Rats found dead, 15. Rats trapped, 574. Rats identified, 589, as follows: Mus norvegicus, 458; Mus rattus, 5; Mus musculus, 122; Mus alexandrinus, 4. Rats examined bacteriologically, 449.

ALAMEDA COUNTY, CAL. (Exclusive of Oakland).

Last case of human plague sickened 2 miles southwest of Sunol September 26, 1909. Last plague-infected rodent found March 4, 1910. To the present time 66 ground squirrels and 1 wood rat have been found infected.

399 April 1, 1910

Week ended March 12, 1910. Ranches inspected, 14. Ground squirrels shot, 229. Ground squirrels found dead, 1. Gophers trapped, 95. Acres covered with poison, 194. Examined bacteriologically, 300 squirrels and 95 gophers. One plague-infected squirrel was found.

The plague-infected ground squirrel was found in Oakland

Township.

FRESNO COUNTY, CAL.

There is no record of human or rodent plague in Fresno County. Week ended March 12. Ranches inspected, 30. Ground squirrels shot, 581. Ground squirrels examined bacteriologically, 575. No plague-infected squirrels found.

MADERA COUNTY, CAL.

There is no record of human or rodent plague in Madera County. Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 329. Ground squirrels examined bacteriologically, 325. No plague-infected squirrels found.

MERCED COUNTY, CAL.

There is no record of human or rodent plague in Merced County. Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 251. Rabbits shot, 28. Examined bacteriologically, 248 squirrels and 28 rabbits. No plague infection found.

MONTEREY COUNTY, CAL.

There is no record of human or rodent plague in Monterey County. Week ended March 12. Ranches inspected, 31. Ground squirrels shot, 420. Ground squirrels examined bacteriologically, 414. No plague infection found.

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 March 12. Ranches inspected, 23. Ground squirrels shot, 207. Ground squirrels examined bacteriologically, 207. No plague-infected squirrels found.

SAN MATEO COUNTY, CAL.

There is no record of human or rodent plague in San Mateo County. Week ended March 12. Ranches inspected, 2. Ground squirrels shot, 78. Ground squirrels examined bacteriologically, 78. No plague-infected squirrels found.

SANTA BARBARA COUNTY, CAL.

There is no record of human or rodent plague in Santa Barbara

County.

Week ended March 12. Ranches inspected, 28. Ground squirrels shot, 228. Gophers trapped, 20. Examined bacteriologically, 221 squirrels and 20 gophers. No plague infection 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 March 12. Ranches inspected, 8. Ground squirrels shot, 139; found dead, 1. Rabbits shot, 4. Ratstrapped, 14. Examined bacteriologically, 136 ground squirrels, 4 rabbits, 14 rats. No plague infection found.

TULARE COUNTY, CAL.

There is no record of human or rodent plague in Tulare County. Week ended March 12. Ranches inspected, 141. Ground squirrels shot, 419. Rabbits shot, 2. Examined bacteriologically, 414 squirrels and 2 rabbits. No plague infection found.

VENTURA COUNTY, CAL.

There is no record of human or rodent plague in Ventura County. Week ended March 12. Ranches inspected, 7. Ground squirrels shot, 171. Ground squirrels examined bacteriologically, 165. No plague-infected squirrels found.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended April 1, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Mobile	Mar. 13-19	1		
Montgomery		9	1	
California:		·	1 -	
Sacramento	Feb. 1-28	4	i	
San Francisco	Mar. 6-12	ī		
Florida:		-		
Duval County	Mar. 13-19	1		
Louisiana:	1241129 2011111111	-		
New Orleans	Mar. 13-19	10	i I	
Mississippi:				•
Woodville	Mar. 13-19	2		
Tennessee:	mar. 10 10:::::::	-		
Chattanooga	Mar. 13-19	6		
Memphis		5		
Nashville	Mar. 13-19	ă		
Texas:				
Galveston	Mar. 13-19	2	1	
Taylor		ĩ	1 1	
Virginia:		•		
Lynchburg	Mar. 13-19	3		

Reports Received from January 1 to March 25, 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 Mobile Montgomery Total for State	Dec. 19-Mar. 12	19 8 400 427		

Place.	Date.	Cases.	Deaths.	Remarks.
Arkansas:				
	Jan. 22-Feb. 12	11		
Little Rock	Jan. 1-Mar. 12	92		
Lonoke	Jan. 6-20	2		
Total for State		105		
alifornia:		ļ		
Berkelev	Dec. 26-Jan. 1	1		
Los Angeles	Jan. 12-Feb. 12	4		.
BerkeleyLos AngelesOakland	Dec. 26-Jan. 1	1		
Sacramento County	Jan. 1-31 Dec. 12-Jan. 31 Dec. 19-Mar. 5		1	
Sacramento	Dec. 12-Jan. 31	50 18		1
Sali Flancisco	Dec. 19-Mai. 5	10		į
Total for State		74	1	
-lamadas				
olorado: Bent County	Feb. 1-28	10		
Boulder County—	100.1-20	. 10		•
Boulder	Dec. 19-25	1	1	
Chaffee County	Jan. 1–31 Jan. 1–Feb. 28	6		
Conejos County Denver County	Jan. 1-Feb. 28	29		
Denver County	Jan. 1-Feb. 28	18		
Fremont CountyGarfield County	Feb. 1-28 Jan. 1-31 Jan. 1-Feb. 28	14		
Huerfano County	Jan. 1-Feb. 28	12		i
Jefferson County	Feb. 1-28	1		
La Plata County Larimer County	Feb. 1–28 Jan. 1–31	4		
Larimer County	Jan. 1-31	4		
Las Animas County Logan County	Jan. 1-Feb. 28 Jan. 1-Feb. 28	14		
Logan County	Jan. 1-Feb. 28	17		
Mesa County Fruita district Montrose County Morgan County Otero County Ouray County	Dec 26_Ian 1	3		
Montrose County	Jan. 1-Feb. 28	19		
Morgan County	Jan. 1-Feb. 28	16		!
Otero County Ouray County Pitkin County	Jan. 1-31	1		
Ouray County	Jan. 1-Feb. 28	13		[
Pitkin County	Feb. 1-28	5 2		-
Pueblo County	Feb. 1–28. Feb. 1–28. Jan. 1–31	. 1		1
Rio Grande County San Miguel County	Ian 1_31	i		
Summit County	Jan. 1-31	i		
Summit County	Jan. 1-Feb. 28	21		
Total for State		218		
strict of Columbia		21		
Total for District		21		
orida:	Ion 1_Feb 26	3		
Columbia County	Feb 13-19	2	• • • • • • • • • • • • • • • • • • • •	•
Duval County	Jan. 1-31	ī		
Alachua County Columbia County Duval County Jacksonville Escambia County Pensacola Codedos County	Jan. 30-Mar. 12	4		,
Escambia County	Feb. 6-Mar. 5	31		
Pensacola	Feb. 20-26	1 2	• • • • • • • • • • • • • • • • • • • •	
			• • • • • • • • • • • • • • • • • • • •	·
Leon County	Feb. 20-26	i		
Hillsboro County Leon County Liberty County	Jan. 1-31	ī		
Volusia County	Mar. 6-12	1 1		
Leon County	Jan. 1-31	3		
1		51		•
orgie:	Ì			
orgia: Macon	Jan. 1-31	51		
Total for State	· · · · · · · · · · · · · · · · · · ·	51		
inois:				
Alexander County	Jan. 1-31	6		
Alexander CountyColes County	Feb. 1-28 Jan. 1-31	1		
	1	4	•••••	
Chicago Dupage County Edwards County	Dec. 19-Feb. 28	3		
	** * * **	- 1		Present.
Dupage County	Feb. 1-28	29	+	i resent.

Place.	Date.	Cases.	Deaths.		Remarks.
llinois—Continued.					
Effingham County	Jan 1-Feb 28	82	1		
Fayette County	Jan. 1-Feb. 28 Jan. 1-Feb. 28	2			
Franklin County	Ton 1 21	1 6			
Gallatin County	Feb. 1-28. Feb. 1-28. Jan. 1-Feb. 28. Feb. 1-28.	2			
Iroquois County	Feb. 1-28	1			
Jackson County	Jan. 1-Feb. 28	3			
Jasper County	Feb. 1-28			Present.	
Kane County	Jan. 1–31 Feb. 1–28. Jan. 1–31	1			
Livingston County Macon County	Tep. 1-28	3 1			•
Mat oon County	Jan. 1-31	i	• • • • • • • • • • • • • • • • • • • •		
McLean County Madison County	Feb. 1-28	i			
Marion County	Feb. 1–28	2			
Marion County	Feb. 1–28 Jan. 1–Feb. 28	10			
Pike County					
Pulaski County	Jan. 1-31	2			
Sangamon County Shelby County	Jan. 1-31 Jan. 1-31 Jan. 1-Feb. 28. Jan. 1-31	4		Do.	
Shelby County	Jan. 1-Feb. 28	10		_	
Wabash County	Jan. 1-31	• • • • • • • • •		Do.	
Wayne County Williamson County	Jan. 1-31 Jan. 1-Feb. 28	. 5			
Williamson County	Jan. 1-Feb. 28	23			
Total for State		204			
Total for State	• • • • • • • • • • • • • • • • • • • •	204			
idiana:					
Adams County	Oct. 1-31	4			
Allen County	Oct. 1-Jan. 31	180	1		
Allen County	Nov. 1-Jan. 21 Dec. 1-Jan. 31	2			
Clark County	Dec. 1-Jan. 31	20			
Clinton County	Dec. 1-Jan. 31				
		1			
Daviess County Decatur County Dekalb County	Nov. 1-Jan. 31 Jan. 1-31 Dec. 1-Jan. 31 Oct. 1-Nov. 30	28			
Decatur County	Dec 1 Ion 21	3			
Delaware County	Oct 1 Non 20				
Fountain County	Ion 1-31	1			
Fulton County	Jan. 1-31	4			
Fountain County	Jan. 1-31				
Greene County	OCt. 1-31				
Hamilton County	Jan. 1-31				
Henry County	Jan. 1-31				
Henry County	Tan 1_31				
Jenerson County	Nov. 1-30				
Jennings County	Jan. 1-31 Oct. 1-31	6			
Knox CountyLaporte County	Oct. 1-31				
Madison County	Dec. 1-31				
Marion County	Dec 1-Ion 21				
Madison County Marion County Marshall County Martin County Martin County	Dec. 1-Jan. 31 Oct. 1-Jan. 31	80			
Martin County	Jan. 1-31	ĩ			
Miami County	Jan. 1-31	3			
Montgomery County	Ian. 1-31	2			
Noble County	Nov. 1-Jan. 31 Oct. 1-31	2			
Randolph County	Oct. 1-31	1			
St. Joseph County	Oct. 1-Jan. 31 Dec. 1-Jan. 31 Nov. 1-30 Dec. 1-Jan. 31	21			
Shelby County	Dec. 1-Jan. 31	33			
Steuben County	Nov. 1-30	3			
Tippecanoe County Vanderburg County	Dec. 1-Jan. 31	3			
Vanderburg County	Oct. 1-31	8			
Warren County Washington County	Nov. 1-30 Jan. 1-31	1			
Washington County	Nov. 1-31 Nov. 1-Jan. 31	1	• • • • • • • • • • • • • • • • • • • •		
Wayne County	Nov. 1-Jan. 31		• • • • • • • • • • • • • • • • • • • •		
Total for State		523	1		
. 1	. -				
wa, general	Jan. 1-31	19			
	Feb. 1-28	8			
Buena Vista County	Jan. 1–31 Jan. 1–31	1			
Case County	Jan 1 21	10			
Buena Vista County Calhoun County Cass County Cedar County Cherokee County Clayton County Dellee County	Jan. 1-31	1 3			
Cherokee County	Jan. 1–31 Jan. 1–31 Jan. 1–31	24	••••••		
Clayton County	Jan. 1-01	1	• • • • • • • • • • • • • • • • • • • •		
	Jan 1_31	1 1			
	Feb. 1–28.				
Dubuque County	Feb. 1–28 Jan. 1–Feb. 28 Feb. 1–28	40			
Florid County	Ta-k 1 00				
riova County	rep. 1-28	2 1			
Grundy County	Feb. 1-28				

			4	
Place.	Date.	Cases.	Deaths.	Remarks.
			!	
Iowa—Continued.				
Linn County	Jan. 1-31	7	ļ	
Cedar Rapids	Dec. 1-31	1		1
Madison County	Jan 1-31	2		
Marshall County	Jan. 1-31 Jan. 1-Feb. 28	5		
Marshall County Mitchell County	Feb. 1-28	ĺ		
Monroe County	Jan. 1– Feb. 28	3	·	
Polk County	Jan. 1-Feb. 28	41		
Pottawattamie County	Jan. 1-31	. 1		1
Poweshiek County Scott County	Feb. 1-28	9		i
Sionx County	1 Jan. 1– Feb. 28	1/		
Story County	Feb. 1-28 Feb. 1-28	17	!	i
Story County Winnebago County Woodbury County	Feb. 1-28	5		
Woodbury County	Feb. 1-28	. 2		
Sioux City Wright County	Dec. 1–31 Feb. 1–28	í		
Wilght County	100.1-20			
Total for State		240		
			·	İ
Kansas:	T 1 01		1	
Allen CountyBarton County	Jan. 1–31 Jan. 1–31			
Roughon County	Jan. 1-31	3	,	
Cherokee County	Jan. 1-31	8		
Cherokee County Clay County Cloud County	Nov 1_30	1		
Cloud County	Nov. 1-30	1		
Cowley County	Nov. 1-30	3		
Cowley County Crawford County Pittsburg	Nov. 1-30. Nov. 1-30. Dec. 1-Jan. 31. Jan. 1-31.	1		
Decatur County	Nov. 1-Jan. 31	21		
Dickinson County	Jan. 1-31	4	·	
Douglas County	Dec. 1-31	. 1		
Ellsworth County	Dec. 1-31 Jan. 1-31 Jan. 1-31	14	: 	
Finney County	Jan. 1-31	1 6		
Ford County	Jan. 1-31 Dec. 1-31			
Graham County	Dec. 1-31 Nov. 1-Jan. 31 Jan. 1-31	40		
Graham County Gray County	Jan. 1-31			
Hamilton Colinty	Jan. 1-31	2		
Jackson County	Dec. 1–31 Nov. 1–Jan. 31			
Jewell County Kearny County	Jan. 1-31	77		
Kiowa County	Jan. 1–31			
Labette County	Jan. 1-31	5		
Leavenworth County	Nov. 1-30 Dec. 1-31	1		
Leavenworth County	Jan. 1-31	1		
Logan CountyLyon County	Dec. 1-31	î		
McPherson County	Dec. 1-31 Dec. 1-Jan. 31 Dec. 1-31	3		
Marshall County	Dec. 1-31	20		
Miami County	Jan. 1-31	3.1		
Montgomery County Coffeyville	Nov. 1-Jan. 31	109		
Nemeha County	Jan. 1-31 Jan. 1-31	11		
Neosho County	Jan. 1-31			
Ness County	Dec. 1-Jan. 31	8		
Norton County	Nov. 1-Jan. 31 Jan. 1-31	38		
Osage County Phillips County	Jan. 1-31	11 3	• • • • • • • • • • • • • • • • • • • •	
Pottawatomie County	NOV. I-Dec. 31			
Rawlins County	Jan. 1-31	5		
Reno County	Nov. 1–Jan. 31 Jan. 1–31	123		
Rice County	Jan. 1–31	1	• • • • • • • • • • • • • • • • • • • •	
Riley County	Jan. 1-31	17 5		
Russell County	Jan 1-31	ĭ		
Russell County	Jan. 1-31 Jan. 1-31 Dec. 1-31	1 1		
Scott County		11	1	
Sedgwick County Wichita	Dec. 1-31	2	1	
Wichita	Dec. 1–31	1 12	• • • • • • • • • • • • • • • • • • • •	
Shawnee County Topeka	Nov. 1-Jan. 31	9	••••••	
Sheridan County	Nov. 1-Jan. 31	8		
Smith County	Nov. 1–Jan. 31 Jan. 1–31	2		
Sumner County Thomas County	Nov. 1-Jan. 31 Jan. 1-31	11		
Thomas County	Jan. 1-31	1 2	'	•
Wabaunsee County Wilson County	Nov. 1-30 Nov. 1-Jan. 31	3		
Wilson County	1404. T-40H. OI	U ;		

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from January 1 to March 25, 1910.

Place. Kansas—Continued. Woodson County. Wyandotte County. Kansas City	Date.	Cases.	Deaths.	Remarks.	
Kansas—Continued.		I.			
Wandotte County	1				
Wyandotte County	Ton 1 21	95			
	Dec 1_Ten 21	20			
Kansas City	Jan. 1-31	39			
Total for State		780			
	• • • • • • • • • • • • • • • • • • • •	180			
Kentucky:	Dec 19 10	2	1		
Harword	Dec. 12-18 Dec. 12-Ion 20		•••••		
Hartiord Lexington Paducah	Jan. 5-11	i			
	•				
Total for State	••••••	7			
Louisiana:					
Caddo Parish—	Ion 92 Feb 90	5	2		
Shreveport. Iberia Parish Natchitoches Parish	Jan. 25-Feb. 25	1			
Natchitochee Parish	Feb. 1-26	Ř			
		•			
New Orleans	Dec. 26-Mar. 12	76	İ		
Morehouse Parish	Feb. 1-28	2			
New Orleans	Feb. 1-28	6			
Tensas Parish	Feb. 1-28	13			
Total for State		109	2		
Marriand					
Maryland:	Dec 26-Tan 1	1			
Dorchester County	Dec. 3-31				
Baltimore	Jan. 8-31	i			
	} -				
Total for State		6			
Massachusetts:	ĺ				
Bristol County	Feb. 1-28	6			
Essex County	Jan. 1-31	1			
Middlesex County	Jan. 1-Feb. 28				
Lynn County	Jan. 1-31	4			
Suffells County	Feb. 1-28	4 3			
Massachusetts: Bristol County. Essex County Middlesex County Lynn County. Plymouth County. Suffolk County. Worcester County.	Jan. 1-Feb. 28	22			
Total for State		116			
Michigan:		I	!		
Alcona County	Nov. 1-Jan. 31	26			
Antrim County	Nov. 1-Feb. 28	33			
Arenac County	Nov. 1–Feb. 28 Nov. 1–Feb. 28 Jan. 1–Feb. 28	136 83			
Regrien County	Ion 1_Feb 28	21			
Calhoun County	Feb. 1-28	i			
Antrim County Arenac County Bay County Berrien County Calhoun County Case County Clare County Detr	Feb. 1-28 Feb. 1-28 Feb. 1-28	1	•••••		
Clare County	Feb. 1–28				
Delta County Eaton County Emmet County Genesee County Gladwin County Gratiet County	Feb. 1-28 Dec. 1-31 Feb. 1-28 Nov. 1-Feb. 28 Nov. 1-Jeb. 28 Nov. 1-Jan. 31 Nov. 1-Jan. 31 Nov. 1-Feb. 28 Feb. 1-28 Feb. 1-28	1	•••••		
Enton County	Nov. 1 Feb 28	1 .	•••••		
Genesee County	Nov. 1-Feb. 28	264	•••••		
Gladwin County	Nov. 1-Jan. 31	8		•	
Gratiot County Houghton County	Nov. 1-30	Ĭ.			
Houghton County	Nov. 1-Feb. 28	54 .			
Huron County	Feb. 1-28	6 .	!		
Ingnam County	Dec. 1-Feb. 28	11 .	•••••		
Iosco County	Dec. 1-Feb. 28	3	1		
Kent County	Dec. 1-Feb. 28	3 5			
Keweenaw County	Jan. 1-Feb. 28	3 .			
Huron County Ingham County Ionis County Ioseo County Kent County Lapeer County Lapeer County Ligitation	reb. 1-28 Dec. 1-Feb. 28 Nov. 1-Feb. 28 Dec. 1-Feb. 28 Dec. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28	.7			
		18			
Manistee County	Nov 1-28	8 .	•••••		
Marquette County	Feb. 1–28 Nov. 1–30 Nov. 1–30	i :			
Mecosta County.	Jan. 1-Feb. 28	11 .			
Midland County	Dec. 1-Feb. 28	11 .			
Missaukee County	an. 1-Feb. 28	33 .			
Montcalm County	Nov. 1-Feb. 28	5 .			
Mason County Mecosta County Midland County Missaukee County Montcaim County Montmorency County Oakland County Oceana County Ogemaw County	Dec. 1-Feb. 28	36 .			
	Tam. 1-01	1 .			
Oceana County	ian 1_41	1 1			

Otsego County Dec. 1-3n. 31. 2 Presque Isle County Dec. 1-Jan 31. 2 Roscommon County Jan. 1-131. 6 Saginaw County Jan. 1-Feb. 28. 53 St. Clair County Jan. 1-Feb. 28. 16 Sanilac County Dec. 1-Feb. 28. 3 Shiawassee County Dec. 1-Feb. 28. 8 Tuscola County Feb. 1-28. 3 Wayne County Dec. 1-Feb. 28. 8 Total for State 975 Minnesota: Anoka County Feb. 1-28. 5 Becker County Dec. 1-Feb. 14. 3 Beltrami County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 3 Benton County Dec. 1-Feb. 14. 1 Bribus Earth County Dec. 1-Feb. 14. 1 Chisago County Feb. 1-21. 2 Cook County Feb. 1-21. 2 Dakota County Feb. 1-22. 2 Cook County Feb. 1-28. 4 Dodge County Jan. 13-17. 1 Freeborn County Feb. 1-28. 1 Frerbour County Dec. 28-Feb. 28. 18 Goodhue County Dec. 28-Feb. 28. 18 Goodhue County Dec. 28-Feb. 28. 38 Houston County Feb. 3-14. 1 Hennepin County Dec. 28-Feb. 28. 38 Houston County Dec. 14-Feb. 28. 2 Itasca Cou	. Deaths.	Remarks.
Ontonagon County		
Oscoda County		
St. Clair County		
St. Clair County		
St. Clair County		
St. Clair County		
St. Clair County		
Total for State		
### Total for State ### St		
## Anoka County		
Anoka County	1	
Anoka County	-	
Freeborn County	. 1	
Freeborn County		
Isanti County		
Isanti County		
Isanti County		
Randyoni County		
Randyoni County		
Randyoni County		
Koochiching County		
Olmsted County Feb. 8-14 1 Ottertail County Dec. 21-Feb. 28 24 Pine County Feb. 22-28 1 Polk County Dec. 7-13 1 Ramsey County Jan. 11-Feb. 28 6 Red Lake County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 1 Rock County Dec. 7-Feb. 14 22 Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 21 3 Todd County Dec. 28-Feb. 21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Feb. 15-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 5 1 Swift County Feb. 15-21 5 5 Guifport Dec. 28-Jan. 31 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Olmsted County Feb. 8-14 1 Ottertail County Dec. 21-Feb. 28 24 Pine County Feb. 22-28 1 Polk County Dec. 7-13 1 Ramsey County Jan. 11-Feb. 28 6 Red Lake County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 1 Rock County Dec. 7-Feb. 14 22 Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 21 3 Todd County Dec. 28-Feb. 21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Feb. 15-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 5 1 Swift County Feb. 15-21 5 5 Guifport Dec. 28-Jan. 31 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Olmsted County Feb. 8-14 1 Ottertail County Dec. 21-Feb. 28 24 Pine County Feb. 22-28 1 Polk County Dec. 7-13 1 Ramsey County Jan. 11-Feb. 28 6 Red Lake County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 1 Rock County Dec. 7-Feb. 14 22 Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 21 3 Todd County Dec. 28-Feb. 21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Feb. 15-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 5 1 Swift County Feb. 15-21 5 5 Guifport Dec. 28-Jan. 31 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Olmsted County Feb. 8-14 1 Ottertail County Dec. 21-Feb. 28 24 Pine County Feb. 22-28 1 Polk County Dec. 7-13 1 Ramsey County Jan. 11-Feb. 28 6 Red Lake County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 1 Rock County Dec. 7-Feb. 14 22 Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 21 3 Todd County Dec. 28-Feb. 21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Feb. 15-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 5 1 Swift County Feb. 15-21 5 5 Guifport Dec. 28-Jan. 31 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Olmsted County Feb. 8-14 1 Ottertail County Dec. 21-Feb. 28 24 Pine County Feb. 22-28 1 Polk County Dec. 7-13 1 Ramsey County Jan. 11-Feb. 28 6 Red Lake County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 4 Renville County Dec. 7-Feb. 14 1 Rock County Dec. 7-Feb. 14 22 Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 32 St. Louis County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 21 3 Todd County Dec. 28-Feb. 21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Feb. 15-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 5 1 Swift County Feb. 15-21 5 5 Guifport Dec. 28-Jan. 31 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Othertall County		
Radi Lake County Dec. 7-Feb. 14 4		
Radi Lake County Dec. 7-Feb. 14 4		
Radi Lake County Dec. 7-Feb. 14 4		
Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 21 Sherburne County Jan. 11-17 1 Sibley County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 1-21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Dec. 13-Feb. 21 29 Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 9 Total for State 56 Total for State 366 Ississippi: Biloxi Jan. 2-Feb. 3 5 Guilport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez County Jec. 26-Feb. 26 90		
Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 21 Sherburne County Jan. 11-17 1 Sibley County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 1-21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Dec. 13-Feb. 21 29 Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 9 Total for State 56 Ississippi: Jan. 2-Feb. 28 41 Sissisppi: Jan. 2-Feb. 3 55 Gulfport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez County Jan. 30-Mar. 5 4 Natchez County Jan. 30-Mar. 5 90 Cleiberte County Jan. 30-Mar. 5 90 Cleiberte County Jan. 30-Mar. 5 4 Natchez County Jan. 30-Mar. 5 90		
Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 21 Sherburne County Jan. 11-17 1 Sibley County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 1-21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Dec. 13-Feb. 21 29 Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 9 Total for State 56 Total for State 366 Ississippi: Biloxi Jan. 2-Feb. 3 5 Guilport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez County Jec. 26-Feb. 26 90		
Roseau County Dec. 7-Feb. 28 32 St. Louis County Dec. 7-Feb. 28 21 Sherburne County Jan. 11-17 1 Sibley County Dec. 28-Feb. 28 9 Stearns County Feb. 1-21 4 Swift County Feb. 1-21 3 Todd County Dec. 28-Jan. 31 1 Wabasha County Dec. 13-Feb. 21 29 Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 15 Wilkin County Feb. 15-21 1 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Feb. 15-21 9 Total for State 56 Total for State 366 Ississippi: Biloxi Jan. 2-Feb. 3 5 Guilport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez County Jec. 26-Feb. 26 90		
Searth County		
Swift County		
Todd County Dec. 28-Jan. 31 1 Wabasha County Dec. 13-Feb. 21 29 Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 28-Jan. 31 1 Wright County Dec. 7-Feb. 28 41 Yellow Medicine County Feb. 22-28 9 Total for State 366 ississippi: Biloxi Jan. 2-Feb. 3 5 Guifport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Wadena County Feb. 1-21 15 Wilkin County Feb. 15-21 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 7-Feb. 28 41 Yellow Medicine County Feb. 22-28 9 Total for State 366 ississispipi: Biloxi Jan. 2-Feb. 3 5 Gulfport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Wilkin County Feb. 15-21 1 Watonwan County Dec. 28-Jan. 31 1 Wright County Dec. 7-Feb. 28 41 Yellow Medicine County Feb. 22-28 9 Total for State 366 ississippi: Blloxi Jan. 2-Feb. 3 5 Gulfport Jan. 26-Mar. 9 9 Holly Springs Jan. 2-29 6 Marshall County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
watonwan county Dec. 28-Jan. 31 1 Wright County Dec. 7-Feb. 28 41 Yellow Medicine County Feb. 22-28 9 Total for State 366 ississisppi: Biloxi Jan. 2-Feb. 3 5 Guifport Jan. 26-Mar. 9 9 9 Holly Springs Jan. 2-29 6 Marshail County Jan. 30-Mar. 5 4 Natchez Dec. 26-Feb. 26 90		
Wright County Dec. 7–Feb. 28 41 Yellow Medicine County Feb. 22–28 9 Total for State 366 ississippi: Jan. 2–Feb. 3 5 Gulfport Jan. 26–Mar. 9 9 Holly Springs Jan. 2–29 6 Marshall County Jan. 30–Mar. 5 4 Natchez Dec. 26–Feb. 26 90 Cleiberta County Dec. 26–Feb. 26 90	·····	
Yellow Medicine County Feb. 22-28		
Total for State		
Salar Sala		
Biloxi		
Biloxi		
	1	
	2	
Port Gibson Dec. 19–25	1	
	• • • • • • • • • • • • • • • • • • • •	
Woodville Feb. 27-Mar. 5 25	1	
Total for State	4	

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from January 1 to March 25, 1910.

Remarks.

Place.	Date.	Cases.	Deaths.
dissouri:		-	
Andrew County	Jan. 23-Feb. 26	. 5	1
Joplin	Jan. 16-22	ìi	
Kansas City	Jan. 2-Feb. 19	. 16	1
St. Joseph	Jan. 2-Feb. 5	. 7	
St. Louis	Dec. 26-Mar. 12	. 23	
Andrew County. Joplin. Kansas City St. Joseph St. Louis Springfield	Jan. 1-31	4	
Total for State		. 56	1
Iontana: Beaverhead County	Dec. 1-Feb. 28	. 5	
Broadwater County	Feb. 1-28		
Carbon County	Jan. 1-31		
Carbon County	Jan. 1-31	. 6	
Custer County	Feb. 1-28	. 1	1
Dawson County. Deerlodge County. Flathead County. Gallatin County.	Nov. 1-Jan. 31	. 6	
Deerlodge County	Feb. 1-28	. 1	
Flathead County	Oct. 1-Nov. 30	. 6	
Gallatin County	Dec. 1-Feb. 28	. 3	
Jenerson County	NOV. 1-30	. 1	
Lewis and Clark County Madison County	Oct. 1-Feb. 28	31	
Maggher County	Fab 1_98	2	
Meagher County Missoula County	Oct 1-Feb 28	73	
Park County	Nov 1-Jan. 31	1 14	
Powell County	Nov. 1-Feb. 28	2	
Powell County	Nov. 1-Feb. 28	5	
Sanders County Silverbow County	Jan. 1-Feb. 28	. 4	
Silverbow County	Oct. 1-Feb. 28	190	
BULLE	Dec. 19-31	1 14	
Yellowstone County	Jan. 1-31	. 2	
Total for State		371	
ebraska:	Jan. 1-Feb. 28	5	
	Dec. 5-11		
Total for State		8	
ew Hampshire (entire State).	Jan. 1-Feb. 28	7	
ew Jersey:	T. 1.00		
Bergen County Passaic County	Feb. 1-28	1 1	
	Jan. 30-Feb. 5	i	
Total for State		3	
ew York (entire State)	Sept. 1-Nov. 30	33	
ew York (entire State) Cattaraugus County Cayuga County Erie County	Dec. 1-31	ĩ	
Eric County	Dec. 1-31	1 17	• • • • • • • • • • • • • • • • • • • •
Jefferson County	Dec 1-31	l 'il	
Lewis County	Dec. 1-Jan. 31	2	
Niagara County	Dec. 1-Jan. 31	40	
Onelda County	Dec. 1-Jan. 31	2	
Jefferson County Lewis County Niagara County Onelda County St. Lawrence County Ulster County Westchester County	Jan. 1-31	9	
Ulster County	Jan. 1-31	2	· · · · · · · · · ·
w estenester County	Jan. 1-31	1	• • • • • • • • •
Total for State		109	1
orth Carolina:			
Alamance County	Jan. 1-Feb. 28	86	
Beaufort County	Jan. 1-Feb. 28	11	
Alamance County Beaufort County Bertie County	Jan. 1-31	6	· • • • • • • • • •
Rucke County	14UV. I–Jäll. 31 Tan 1_31	21 20	• • • • • • • • •
Caharria County	Jan 1-31 Jan 1-Feh 28	15	• • • • • • • • • •
Caldwell County	Jan. 1-Feb. 28	31	
Carteret County	Jan. 1-Feb. 28	3	• • • • • • • • • • • • • • • • • • •
0 4 1 0 0 1	Oct. 1-Feb. 28	62	• • • • • • • • • • • • • • • • • • •
Catawda County	T 1 01	2	
Chatham County	Jan. 1-31		
Bertie County Bladen County Burke County Cabarrus County Caldwell County Carteret County Catawba County Chatham County Chowan County		17	
Cleveland County	Oct 1-Feb 28	17 4	
	Oct 1-Feb 28	17	

Place.	Date.	Cases.	Deaths.	Remarks.
			ļ	<u> </u>
North Carolina—Continued.	Ion 1 Feb 20	90	1	
Davie County Duplin County		29		
Durham County		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 Nov. 1-Feb. 28	50		
Guilford County		112		
Iredell County	Jan. 1-Feb. 28	5 23		
Johnston County	Nov. 1-Jan. 31 Oct. 1-Nov. 30	12		
Jones County Lee County		3		
Lenoir County	Ian 1-Feb. 28	37		
Lincoln County	Jan. 1-Feb. 28			
McDowell County	Nov. 1-Feb. 28	75		
Mecklenburg County	Nov. 1-Feb. 28	102	1	
Nash County	Jan. 1-Feb. 28	125	1	Nov. 1–30, many cases.
New Hanover County	Feb. 1-28	1 7		
Onslow County	Jan. 1-Feb. 28			
Orange County	Feb. 1-28 Feb. 1-28			Jan. 1-31, present.
Perquimans County	Jan. 1-31	4		Jan. 1-01, present.
Pitt County	Jan. 1-Feb. 28	70		
Randolph County	Jan. 1-31	2		
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			
Rutherford County	Nov. 1–Feb. 28 Jan. 1–Feb. 28			
Sampson County Stokes County	Jan. 1-Feb. 28			
Surry County	Oct. 1-Feb. 28			
Union County	Oct. 1-Feb. 28			
Wake County	Nov. 1-Feb. 28	61		
Washington County	Feb. 1-28			
	1 60. 1-20	2		
Wayne County	Nov. 1-1 eb. 28	28		
Wayne County	Nov. 1-Feb. 28 Jan. 1-Feb. 28	28 39		
Wayne County	Nov. 1-Feb. 28 Jan. 1-Feb. 28	28 39 224		
Wayne County Wilkes County Wilson County Yadkin County	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28	28 39 224 11		
Wayne County	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28	28 39 224 11		
Wayne County Wilkes County Wilson County Yadkin County	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28 Oct. 1-Feb. 28	28 39 224 11		
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28 Oct. 1-Feb. 28	28 39 224 11 35		
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28 Oct. 1-Feb. 28	28 39 224 11 35 2,210		
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County.	Nov. 1-Feb. 28	28 39 224 11 35 2,210	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County.	Nov. 1-Feb. 28 Jan. 1-Feb. 28 Nov. 1-Feb. 28 Oct. 1-Feb. 28 Oct. 1-Feb. 28 Jan. 1-Feb. 28 Oct. 1-31	28 39 224 11 35 2,210	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State. North Dakota: Billings County. Bottineau County. Cass County.	Nov. 1-Feb. 28	28 39 224 11 35 2,210	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Dec. 1-31 Jan. 1-Feb. 28. Dec. 1-31. Jan. 1-Feb. 28.	28 39 224 11 35 2,210	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Lec. 1-31.	28 39 224 11 35 2,210	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Oct. 1-31 Dec. 1-31. Jan. 1-Feb. 28. Dec. 1-Jan. 31. Feb. 1-28.	28 39 224 11 35 2,210	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Feb. 1-23. Feb. 1-22. Feb. 1-28.	28 39 224 11 35 2,210	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Oct. 1-31 Dec. 1-31. Jan. 1-Feb. 28. Dec. 1-Jan. 31. Feb. 1-28.	28 39 224 11 35 2,210	1	
Wayne County Wilkes County. Wilson County. Yadkin County Yancey County Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County Williams County. Walsh County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Feb. 1-28. Feb. 1-28. Feb. 1-28. Jan. 1-31.	28 39 224 11 35 2,210 11 1 1 2 4 12 6 6 6 39	1	
Wayne County Wilkes County. Wilson County. Yadkin County Yancey County Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County Williams County. Walsh County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Feb. 1-23. Feb. 1-22. Feb. 1-28.	28 39 224 11 35 2,210 11 1 1 2 4 12 6 6 6 39	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Williams County. Total for State.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-31. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Dec. 1-31. Jan. 1-Feb. 28. Feb. 1-28. Feb. 1-28. Feb. 1-28. Jan. 1-31.	28 39 224 11 35 2,210 11 1 1 2 2 4 12 6 6 6 39 82	1	
Wayne County. Wilkse County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Walsh County. Total for State. Ohio: Allen County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Oct. 1-31 Dec. 1-31 Jan. 1-Feb. 28. Dec. 1-Jan. 31. Feb. 1-28. Feb. 1-28. Feb. 1-28. Jan. 1-Seb. Jan. 1-31.	28 39 224 11 35 2,210 11 1 1 2 4 12 6 6 6 6 8 39	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Jan. 31. Jan. 1-Feb. 28. Jan. 1-Jan. 31.	28 399 224 111 35 2,210 11 1 1 1 2 4 4 12 6 6 6 39 82	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State. North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Steele County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County. Adams County. Adams County. Auglaze County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28. Jan. 1-31.	28 399 224 11 35 2,210 11 1 1 1 2 4 4 12 6 6 6 6 39 82	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Nelson County. Williams County Williams County Walsh County Total for State Dhio: Allen County. Adams County. Auglaize County. Belmont County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Feb. 1-28. Feb. 1-28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 11 35 2,210 11 1 1 1 2 4 4 12 6 6 6 6 6 82 82	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Steele County. Williams County. Williams County. Total for State. Dhio: Allen County. Adams County. Adams County. Belmont County. Belmont County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-31. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28.	28 399 224 111 35 2,210 11 1 1 2 4 4 12 6 6 6 6 6 8 7 19	1	
Wayne County. Wilses County. Wilses County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County Williams County Walsh County Total for State Ohio: Allen County. Adams County. Auglaize County. Belmont County. Belmont County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Clermont County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 35 2,210 11 1 1 2 4 4 12 6 6 6 6 6 8 7 19	1	
Wayne County. Wilses County. Wilses County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County Williams County Walsh County Total for State Ohio: Allen County. Adams County. Auglaize County. Belmont County. Belmont County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Berown County. Clermont County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 35 2,210 11 1 1 2 4 4 12 6 6 6 6 6 8 7 19	1	
Wayne County. Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Nelson County. Williams County. Williams County. Williams County. Total for State. Dhio: Allen County. Adams County. Auglaize County. Belmont County. Berwan County. Clermont County. Clermont County. Cleveland. Darke County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-	28 399 224 111 35 2, 210 11 1 1 2 4 4 12 6 6 39 82 26 1 8 8 7 7 19 1	1	
Wayne County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Steele County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County. Adams County. Belmont County. Belmont County. Cleyeland. Darke County. Cleyeland. Darke County. Franklin County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-31 Dec. 1-31 Jan. 1-Feb. 28. Dec. 1-31 Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Feb. 28.	28 399 224 111 35 2,210 11 1 1 2 4 4 12 6 6 6 6 6 8 7 7 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Wayne County. Wilses County. Wilses County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Williams County. Total for State Ohio: Allen County. Auglaize County. Auglaize County. Belmont County. Berown County. Clermont County. Clereland. Darke County. Clereland. Darke County. Franklin County. Franklin County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 11 2 4 12 6 6 39 82 26 1 8 7 19 1 1 1 2 4 1 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Wayne County Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County. Adams County. Belmont County. Clermont County. Clermont County. Cleveland. Darke County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Jackson County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28.	28 399 224 111 35 2, 210 11 1 1 2 4 4 12 6 6 6 6 39 82 28 1 1 1 1 1 1 2 4 1 2 4 1 2 1 2 1 1 1 1 1		
Wayne County Wilses County. Wilses County. Wilson County. Yadkin County. Yadkin County. Total for State North Dakota: Billings County. Bottineau County. Grand Forks County. McLean County. Nelson County. Wilson County. Williams County Williams County Williams County Total for State Ohio: Allen County. Adams County. Auglatze County. Belmont County Brown County. Clermont County Clerveland. Darke County. Franklin County. Franklin County. Hamilton County Jackson County Jackson County Knox County Jackson County Knox County Knox County Knox County Jackson County Knox County Knox County Knox County Knox County Knox County Knox County	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 35 2,210 11 1 1 2 4 12 6 6 39 82 26 1 1 8 7 19 11 1 2 4 3 9 82 26 1 1 1 2 2 4 3 5 8 7 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Wayne County Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. McLean County. Williams County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County. Adams County. Belmont County. Clermont County. Clereland. Darke County. Hamilton County. Hamilton County. Hamilton County. Jackson County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Miamt County. Knox County. Miamt County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28.	28 399 224 111 35 2, 210 11 1 1 2 4 4 12 6 6 39 82 26 1 1 1 1 3 5	1	
Wayne County Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. McLean County. Williams County. Williams County. Williams County. Total for State. Ohio: Allen County. Adams County. Adams County. Belmont County. Clermont County. Clereland. Darke County. Hamilton County. Hamilton County. Hamilton County. Jackson County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Knox County. Miamt County. Knox County. Miamt County.	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-31. Jan. 1-Feb. 28.	28 399 224 111 1 1 2 4 4 12 6 6 39 82 26 1 1 8 2 1 1 2 4 4 1 2 4 4 1 2 4 4 1 2 7 1 1 1 1 1 1 1 2 4 4 1 2 6 6 6 6 6 7 1 1 1 1 1 2 4 1 2 2 4 1 2 3 8 7 1 1 1 1 1 2 4 1 2 3 8 7 1 1 1 1 1 2 4 1 2 3 8 7 1 1 1 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3		
Wayne County Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Steele County. Williams County. Williams County. Total for State Ohio: Allen County Adams County. Belmont County. Belmont County. Clermont County. Clermont County. Cleyeland. Darke County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Knox County. Montgomery County. Portage County Portage County Portage County Ross County Portage County Portage County Portage County Ross Ross County Ross Ross County Ross Ross Ross Ross Ross Ross Ross Ross	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Jan. 1-Feb. 28. Jan. 1-Feb. 28.	28 399 224 111 1 2 4 12 6 6 39 82 26 1 8 8 7 7 7 7 2 36 1 1 1 2 4 12 6 39 8 2 2 1 8 7 1 1 1 1 1 2 4 3 8 7 1 1 1 1 1 1 1 2 4 3 8 7 1 1 1 1 1 1 1 2 4 3 8 8 8 7 1 1 1 1 1 1 1 2 4 3 8 8 8 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Wayne County Wilses County. Wilses County. Yadkin County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Total for State Ohlo: Allen County. Adams County. Auglaize County. Belmont County. Brown County. Clermont County. Cleveland Darke County. Franklin County Hamilton County Hamilton County Hamilton County Knox County Minmi County Montgomery County Montgomery County Montgomery County Portage County Portage County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 11 2 4 12 6 6 39 82 26 1 1 1 1 2 4 1 2 4 1 2 4 1 1 2 4 1 1 2 4 1 3 9 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
Wayne County Wilses County. Wilses County. Yadkin County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Steele County. Williams County. Total for State Ohlo: Allen County. Adams County. Auglaize County. Belmont County. Brown County. Clermont County. Cleveland Darke County. Franklin County Hamilton County Hamilton County Hamilton County Knox County Minmi County Montgomery County Montgomery County Montgomery County Portage County Portage County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County Ross County	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 1 1 2 4 4 12 6 6 39 82 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Wayne County Wilses County. Wilses County. Yadkin County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Nelson County. Williams County. Williams County. Total for State. Ohio: Allen County. Auglaize County. Belmont County. Auglaize County. Cleveland Darke County. Cleveland Darke County. Franklin County Hamilton C	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Seb. 1-28. Jan. 1-Feb. 28.	28 399 224 111 11 12 4 12 6 6 39 82 26 11 8 7 19 11 11 12 24 4 12 24 39 82 26 11 11 11 12 12 13 13 13 13 13 13 13 13 13 13	1	
Wayne County Wilkes County. Wilson County. Yadkin County. Yancey County. Total for State North Dakota: Billings County. Bottineau County. Cass County. Grand Forks County. McLean County. Steele County. Williams County. Williams County. Total for State Ohio: Allen County Adams County. Belmont County. Belmont County. Clermont County. Clermont County. Cleyeland. Darke County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Hamilton County. Knox County. Montgomery County. Portage County Portage County Portage County Ross County Portage County Portage County Portage County Ross Ross County Ross Ross County Ross Ross Ross Ross Ross Ross Ross Ross	Nov. 1-Feb. 28. Jan. 1-Feb. 28. Nov. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Oct. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Feb. 28. Jan. 1-Sep. 1-28. Jan. 1-Feb. 28.	28 399 224 111 1 2 4 12 6 6 39 82 26 1 8 8 7 7 7 1 9 1 1 1 1 2 4 4 12 6 6 3 9 8 2 2 6 1 1 1 1 1 1 1 2 4 7 1 2 6 7 1 1 1 1 1 2 4 7 1 2 6 7 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3		

${\bf SMALLPOX} \ \ {\bf IN} \ \ {\bf THE} \ \ {\bf UNITED} \ \ {\bf STATES-Continued}.$

Place.	Date.	Cases	Deaths.	Remarks.
hio—Continued .				
Williams County— Stryker	Dec. 19–25			
Wyandot County	Feb. 1-28			-
Total for State		. 189		•
klahoma: Beckham County	Nov. 1-30	. 1	l	
Blaine County	Dec. 1-31	. 7]	•
Coal County	Nov. 1-30	i		
Creek County	Oct. 1-Nov. 30	. 3		
Garfield County	Nov. 1–30 Aug. 1–31	1 1		•
Harmon County	Aug. 1-31	. 2		
Hughes County	Aug. 1-31 Aug. 1-Nov. 30	3 19		
Kingfisher County	Oct. 1-31	2		
Le Flore County	Oct. 1-31	. 1		
Lincoln County McIntosh County	Aug. 1–31 Sept. 1–30	3 2		1
Marshall County	Oct. 1-31	1		
Muskogee County	Oct. 1-31			
Okfuskee CountyOklahoma County	Oct. 1-31 Aug., Sept., and	1 14	1	
	Nov.			
Osage County	Sept. 1-Oct. 31	9		
Pawnee County Pottawatomie County	Sept. 1-Nov. 30	41		
Pushmataha County	Sept. 1-30	1		
Seminole County	Oct. 1-Nov. 30	7 2		
Tulsa County	Nov. 1-30	3		
Sequoyah County	Nov. 1-30	1		
Woodward County	•Nov. 1–30	1	• • • • • • • • • • • • • • • • • • • •	
Total for State		139	1	
egon (entire State) Portland	Sept. 1-Dec. 31	89 2		
	1101.1-00			
Total for State		91		
nnsylvania (entire State)	Dec. 1-Feb. 28	57		
uth Carolina:	T 00 00			
Clover	Jan. 23–29	3		
Total for State		. 3		
nnessee:				
Davidson County—	Task 00 00			
Nashville Dekalb County	rep. 20-26 Dec. 12-Jan. 1	1 9		
Hamilton County-		•		
Chattanooga	Dec. 26-Mar. 12	51	·····	
Knox County— Knoxville	Jan. 2-Mar. 5	44		
Shelby County	Nov. 1-Jan. 31	28		
Shelby County. Memphis. Washington County	Dec. 26-Feb. 5.	161 11 ·		
1				
Total for State	•••••	305		
xas:				
Amarillo		16		
Ataseosa County	Dec. 26-Feb. 27	6 106	15	
Denton County	Nov. 1-Jan. 22	5	1	
Fort Worth	Nov 1_Feb 28	52 3	4	
Galveston. Hale County Normanna	Jan. 9-15	7		
Normanna	Jan. 1-31	12	5	
Rockdele	Fah 12_10	3 16	·····i	
San Antonio Taylor Waco	Feb. 27-Mar. 5	10		
Waco	Jan. 1-Feb. 28	3		
Walnut Springs Wills Point	Jan. 12-18	2 5	······2	
		237	28	

1	Place.	Date.	Cases.	Deaths.	Remarks.
Utah:					
	er County	Dec. 1-Jan. 31			
Cache C	ounty	Dec. 1-Jan. 31			
Carbon	County	Dec. 1-Jan. 31			
Davis C	ounty	Dec. 1-Jan. 31	28		
Juan Co	unty	Jan. 1-31 Dec. 1-31			
Pint Co	ounty unty	Jan. 1-31	1 1		
Salt Lai	ke County	Dec. 1-Jan. 31	68		
Sannata	County	Dec. 1-Jan. 31	9		
Sauter C	ounty	Dec. 1-Jan. 31		1	
Summit	County	Ion 1_21	19		
Tooele (ounty	Dec. 1-31	1		
Uintah	County	Dec. 1-Jan. 31	21	1	
Utah Co	unty	Dec. 1-31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31	69		
′ Wasatel	County	Dec. 1-Jan. 31	7	1	
Weber (ounty	Dec. 1-Jan. 31	28		
	for State		337	1	
Virginia:					
L.vnchh	urg	Ion 30_Mor 19	32	1	
Petershi	urg	Dec 26-Ian 26	2	- 1	
Portsmo	nith	Jan. 30–Mar. 12 Dec. 26–Jan. 26 Jan. 16–29 Dec. 1–31	2		
Richmo	outhnd	Dec. 1-31	ī		
	for State		37	1	
			31		
Washington		Tam 1 01	1		
Kitsap (County	Jan. 1-31			
Seatue.		Jan. 2-22	6 22		
Spokane) 	Dec. 19-Jan. 29	22		
Tacoma	kum County	Jan. 2-31	8		
W SUKIS	kum County	Dec. 1-31	8		
Total:	for State		39		
West Virgin	io.				
Rorbolo	Springs	Dec. 27-Feb. 17	6	!!!	
	g	Jan. 30-Feb. 5			
W HOCHH	6	Jan. 30-1 ep. 5			
Total :	for State		7		
Wisconsin:					
Buffalo	County	Feb. 1-28	3		
Chippew	a County	Jan. 1-31			
	unty	Jan. 1-Feb. 28			
	i County	Feb. 1-28		i	
Dane Co	unty	Feb. 1-28	1		
Douglas	County	Jan. 1-Feb. 28			
Supe	erior	Dec. 19-Jan. 1			
Grant Co	ounty	Feb. 1-28			
jenerson	County	Jan. 1-Feb. 28	19 1		
Juneau (County	Jan. 1-31			•
	e County	Jan. 1-Feb. 28	14 2		
Later I	rosse	Dec. 19-Jan. 1 Jan. 1-Feb. 28	3		
Panking	e County	Jan. 1-Feb. 28	19		
	aukee	Dec 10-Ten 1	19		
	unty	Feb. 1-28	í		
Welward	h County	Feb. 1-28	i		
Winneh	ago County	Jan. 1-31	2		
	-		112		
	or State		112		
	total for the United	į	8,812	44	

MORBIDITY AND MORTALITY.

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

[For smallpox see special tables.]

Cities.	Week ended—	Esti- mated popula-	Total deaths from	Tu	ber- osis.	l Du	y- loid ver.		arlet ver.		iph- eria.	Meas	iles.	Where it could	oop- ng igb.
		tion 1909.	all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona. Pa	Mar. 19 do	50, 814 16, 648 576, 023 12, 055	10 8 215	204	28	12	 2	33		14	4	44	2	1 15	 2
Bath, Me Bayonne, N. J Beaver Falls, Pa Berkelev, Cal	do do Mar. 12	49,894 10,341 49,700	1 5	i	1 	 i		2		$\begin{bmatrix} 1\\2\\\\1 \end{bmatrix}$		27			
Biddeford, Me Binghamton, N. Y Do	Mar. 19 Mar. 12 Mar. 19	17,676 45,855	8 21 19	1 2	1 1			i		i		8 7	i		
Boston, Mass Boulder, Colo Braddock, Pa	do do Mar. 12	622, 970	241 2 5 10	76 2	25 			34 1 1 1	1	51 2	3	96 2	4		
Do. Boston, Mass. Boulder, Colo. Braddock, Pa. Do. Bridgeport, Conn. Brockton, Mass. Butte, Mont. Cambridge, Ohio. Camden, N. J. Carbondale, Pa. Charlotte, N. C. Chattanooga, Tenn. Chelsea, Mass. Chicago, Ill. Chicopee, Mass. Chicago, Ill. Chicopee, Mass. Clincinnati, Ohio. Cleveland, Ohio. Coffey ville, Kans. Columbus, Ga. Columbus, Ga. Columbus, Ohio. Concord, N. H. Do. Do. Covington, Ky. Danville, Ill. Detroit, Mich. Dotnukirk, N. Y.	do	90, 913 53, 978 49, 892	31 20 15	4 3	5 3 5			21 6 6	1 	5	2 	1		2 	
Cambridge, Mass Cambridge, Ohio Camden, N. J	do do	101,872 11,733 89,305	41 6 31	10	 2	 2		1 3		12 5	 1	45			
Charlotte, N. C Chattanooga, Tenn Chelsea. Mass	Mar. 19 do	35, 101 34, 654 39, 862	4 7 13	1 2 3		i 	 	 				1 3 3		i	
Chicago, Ill	do do	2, 224, 491 20, 010 351, 212	8 131	106 1 31	92 1 16	9		135 3 7	8	92 3 3	11 	333 4 124	5 2	74 6	6
Coffey ville, Kans Columbus, Ga Columbus, Ohio	Mar. 19 do	17,893 155.340	177 4 10 72	35	20	1	1	19 3 		8 1 		225 8 	1	9	••••
Concord, N. H Do Covington, Ky	Mar. 12 Mar. 19 do	21,997	7 9 21		5	 2				i		11 2		i	••••
Detroit, Mich Duluth, Minn	do Mar. 12 Mar. 19	384, 855 74, 520	11 196 22 28	2 3 2	2	1 1	 i	25 25 14	1 1	15 4 6		10 10		1	••••
Duluth, Minn Do. Dunkirk, N. Y Elizabeth, N. J Do. Elmira, N. Y El Paso, Tex El Paso, Tex Elyria, Ohio. Erie, Pa Evansville, Ind. Everett, Mass Fort Wayne, Ind Do. Galesburg, Ill	do Mar. 12 Mar. 19	67, 470	6 18 12		2			1 10 12		 2 1		15 13 6		7	••••
Elmira, N. Y El Paso, Tex Elyria, Ohio Erie. Pa	do Mar. 12 Mar. 19	35,765 22,911 11,653 63,652	15 26 8 25	6	6	1 11	1	1 5		2 1 2		50 5		3 2	i
Evansville, Ind Everett, Mass Fall River, Mass	do do	66, 948 32, 931 106, 481 54, 180	15 13 41	2 6	2 2	3	1	1 2		2 1 1	1 1	12 2 1		4	
Do	Mar. 12 Mar. 19 do	21,615 36,964	12 26 15 4	1	3	i		2 1 2		1 2 	 i	114 150	1 	2 2	••••
Galesburg, Ill. Galveston, Tex. Grand Rapids, Mich. Harrison, N. J. Haverhill, Mass. Homestead, Pa.	do	105, 909 14, 604 38, 354 17, 145	32 3 24	5	3	8		29 1 4	1 1	1 1 1		8 9	i	6	••••
	mon. IT	17, 145 15, 522 40, 798	11 6 8 11	1	1 1 2	1 1		2 2 2	1	i		2 1 1		6	••••
Hyde Park, Mass. JacksonVille, Fla. Jersey City, N. J. Johnstown, Pa. Kansas City, Kans. Kansas City, Kons. Kearny, N. J. Kingston, N. Y. Knoxville, Tenn. Lackawanna, N. Y. La Crosse, Wis.	Mar. 20 Mar. 19 do	46, 520 85, 742	84 16 31	1 1	13	2	1	25 3 3	2	8 1 6	1	16 57 59	1	1	
Kansas City, Mo Kearny, N. J Kingston, N. Y Knoxyille Tenn	Mar. 19 do	191, 685 15, 765 26, 110 37, 758	118 3 12 16	1	2 2	17	5	17 1 3	4	8	2 	288 8 1	5	1	• • • • •
Lackawanna, N. Y La Crosse, Wis	do	29, 224			-i	1		9	1	1		11 4	3		

[•] Estimated population, 1906; no estimate for 1909.

MORBIDITY AND MORTALITY-Continued.

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

Cities.	Week	Esti- mated popula-	Total deaths from		ber- osis.	pr	y- noid ver.		arlet ver.	Di	iph- eria.	Meas	iles.	1 1	oop- ng igh.
	ended—	popula- tion 1909.	all causes.	Cases.	Deaths.	Casses.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
La Fayette, Ind Lancaster, Pa Lawrence, Mass Lebanon, Pa	ao	19,801 49,962 76,042 20,295	8 10 31	1 4	7	3	i	1 4 4 3		3	i	30 31	i		
Do Lexington, Ky	Mar. 26 Mar. 19	30,690 a 103,000 95,125	8 7 83 42	1 10 1	2 2 12 3	2	i	12 12 5 3	2 1 1	3 3	2	587 73	2 1	6	
Lowell, Mass. Lynchburg, Va. Lynn, Mass. Madison, Ind Malden, Mass. Manchester, N. H.	do do do	29, 457 83, 865 41, 535 68, 561	22 1 16 19	1 4 1 	3	5	1	8	1	3 2	1 	1 1 1 2			
Manchester, N. H Mansfield, Ohio Marinette, Wis Marlboro, Mass Massillon, Ohio	do do do	21,390 14,682 14,444 13,610	5	i	i 1 i	1		2 8		1 1		10 44 68			
Massillon, Ohio		20,839 15,361 136,363 332,495	5 1 4 58 124	1 6 22	6 11	23	3	4 1 4 42	 1 2	1 1 3 2 14	2	11.	····· ···· 1	13	 2
Mobile, Ala. Do. Moline, Ill. Montclair, N. J. Montgomery, Ala. Monticello, Ind.	Mar. 5 Mar. 12 Mar. 19 do	23, 081 18, 296	16 22 7 8	 1	1 4 1			2 7		3 2		6			
Mount Vernon, N.Y.	do	12,849 27,891 20,995	24 12 2	 1 2	4	2		i		1 1	i	5 4 1		6 	
Nanticoke, Pa Nashville, Tenn Nebraska City, Nebr. Newark, N. J.	Mar. 21 Mar. 19 do	106, 476 308, 669	29 1 110	4 13	1		i	1 1 42		26	3	4			
New Orleans, La	do	83, 898 14, 832 327, 662 31, 345 4, 450, 963	38 8 144 12 1,642	37 760	1 2 14 2 198	3	i 1	6 44 708	2	11	60	42 95 157	1 20	34	
Do North Adams, Mass.	Mar. 19 do	32,012 24,491 20,510	20 8 9 4	15	1	3 	î 	2 2 4 1		1 1		56			••••
Northampton, Mass. North Weymouth, Mass.	do do Mar. 5	21,008 11,793 27,669	7 6	5	1 1			3	·····	2		7	···i	2	
Peekskill, N. Y Philadelphia, Pa Pittsburg, Pa	Mar. 12 Mar. 19 do	15, 473 1, 491, 082 27, 589	237	88 42	1 72 30	25 12	 8 5	38 12	2 4 1	2 63 13	7 5	1 41 175	2	19 27	3 2
Plymouth, Pa Portsmouth, N. H Pottsto vn. Pa	do do do do	20, 947 17, 524 11, 336 14, 065 217, 065	7	4	1 2 10	····	i	1 2 13	i	9	 1	13 12 18	i		····· ····· 2
Racine, Wis	do Mar. 21 Mar. 19 Mar. 12	34, 840 97, 231 24, 766 31, 889	12 26 12 13	1 3 3	1 2 2	7 9		7 2		3	i	54		10	
Do	do Feb. 26 Mar. 12 Mar. 5 Mar. 19	51, 941 686, 369	23 13 12 12 262	1 40	3 1 27	2	4	64	6	1 2 1 2 20	2	26 4 1		25	
Sandusky, Unio	do Mar. 5	b 342, 782 24, 596	118		17 23 1	5	3	8 11		16 15	1	68 24		13 3	 2

e Population, 1900. No estimate 1909. b Estimated population 1906. No estimate 1909.

MORBIDITY AND MORTALITY-Continued.

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

Cities. population all causes. representation all causes. representation all representation all representation all representations are represented by the representation all representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representations are represented by the representation and representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are represented by the representation are represented by the representation and representation are represented by the representation are represented by the representation are represented by the representation and representation are represented by the representation are represented by the representation and representation are represented by the representation and representation are represented by the representation and representation are	oó l		-	
0 A 0 A 0	Deaths.	Cases. Deaths.	Cases.	Cases. Deaths.
Schenectady, N. Y Mar. 19 73,037 24 1 3 7 Somerville, Mass .do .75,375 24 2 1 7 South Bend, Ind .do .49,321 8 1 5 South Bethlehem, Pa .do .15,886 5 1 1 1		3 1 2 2 1	36 3 	
South Omaha, Nebr. do 42, 146 1 1 1 1 Spokane, Wash. Mar. 12 47, 066 22 2 3 Springfield, Mass. Mar. 19 82, 724 41 4 2 1 8 Springfield, Ohio. do. 43, 975 10 2 2 6 Steelton, Pa. do. 14, 769 6 2 6 Superior, Wis. do. 40, 919 12 1 6	3	2 8 5 2 1	18 1 13 1 78	1 1
Tacoma, Wash Mar. 12 a 37,714 19 1 1 7 Taunton, Mass Mar. 19 30,926 11 1 1 Terre Haute, Ind do 55,509 24 2 1 1 Titusville, Pa do 8,397 2 2 1 1 Toledo, Ohio Feb. 19 47 2 7 1 6		7 6 3	2 53 70 2 166 3	
Do. Mar. 5 37 5 6 1 10 Do. Mar. 42 49 4 5 2 5 Topeks, Kans. Mar. 19 0 0 Trenton, N.J. Feb. 19 92,878 6 5 4 1 0 Uttea, N.Y do . 69,488 22 2 1 3	1	3 2 3 1	132	1
Waltham, Mass. do. 28,522 10 2 1 1 Washington, D. C. Mar. 23 322,212 160 21 28 3 1 38 West Newton, Mass. Mar. 19 39,419 12 1 3 3 Wilchita, Kans. do. 39,612 17 3 3 Wilkes-Barre, Pa do. 64,323 19 3 1 7 Wilkinsburg, Pa. do. 19,999 8 1 1 1	i	1 4 1 3 1	1 3 40	20
Williamsport, Pa do 30,220 10 3 1 10 Wilmington, Del do 88,980 34 4	i	2 7 2 3	1 16 2 3 1	

a Estimated population 1906. No estimate 1909.

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

California—Sacramento.—Month of February, 1910. Population, 55,000. Total number of deaths from all causes 53, including measles 1, tuberculosis 12. Cases reported: Typhoid fever 3, smallpox 4, measles 50, scarlet fever 2, diphtheria 3, tuberculosis 3.

FLORIDA.—Week ended March 19, 1910. Reports from the state board of health show typhoid fever present in 2 localities with 2 cases; smallpox in 1 county (Duval) with 1 case; diphtheria in 3 localities with 3 cases; tuberculosis in 5 localities with 5 cases.

Tampa.—Month of February, 1910. Population, 28,410. Total number of deaths from all causes 42, including typhoid fever 1, measles 2, tuberculosis 4. Cases reported: Typhoid fever 1, measles 27, diphtheria 6.

ILLINOIS — Quincy.— Month of February, 1910. Population, 43,000. Total number of deaths from all causes, 50, including diphtheria 1, tuberculosis 3. Cases reported: Typhoid fever 4, measles 1, scarlet fever 6, diphtheria 12.

413 April 1, 1910

Indiana.—Month of January, 1910. Reports from the state board of health show a total of 2,883 deaths, urban population 1,074,289, deaths 1,426, rural population 1,690,240, deaths 1,457, including typhoid fever 47, scarlet fever 16, tuberculosis 392. Cases reported: Typhoid fever 131 in 40 counties, smallpox 189 in 25 counties, scarlet fever 616 in 63 counties.

Iowa—Cedar Rapids.—Month of February, 1910. Population, 35,000. Total number of deaths from all causes 28, including typhoid fever 2, tuberculosis 1. Cases reported: Scarlet fever 2.

Maryland.—Month of December, 1909. Population 1,319,132. Total number of deaths from all causes 776, including typhoid fever 17, measles 6, scarlet fever 4, diphtheria 9, tuberculosis 88. Cases reported: Typhoid fever 83, smallpox 4, measles 98, scarlet fever 62, diphtheria 61. The typhoid fever cases were distributed as follows: Potomac River watershed 35, Patapsco River watershed 5, Patuxent River watershed 10.

Massachusetts.—Week ended January, 1910. Population of reporting towns 2,401,701. Total number of deaths from all causes 911, including typhoid fever 10, measles 1, scarlet fever 5, diphtheria 13, tuberculosis 84. Week ended January 8, 1910. Total number of deaths from all causes 853, including typhoid fever 3, measles 4, scarlet fever 3, tuberculosis 68. Week ended January 15, 1910. Total number of deaths from all causes 771, including typhoid fever 4, measles 4, scarlet fever 2, diphtheria 12, tuberculosis 58. Week ended January 22, 1910. Total number of deaths from all causes 893, including typhoid fever 3, measles 5, scarlet fever 3, diphtheria 19, tuberculosis 81. Week ended January 29, 1910. Total number of deaths from all causes 807, including measles 5, scarlet fever 1 diphtheria 14, tuberculosis 94.

MINNESOTA—St. Paul.—Month of December, 1909. Population 230,000. Total number of deaths from all causes 211, including typhoid fever 6, measles 1, diphtheria 13, tuberculosis 21. Cases reported: Smallpox 1, measles 13, scarlet fever 87, diphtheria 119.

MISSOURI—Springfield.—Month of February, 1910. Population 35,000. Total number of deaths from all causes 54, including diphtheria 1, tuberculosis 6. Cases reported: Scarlet fever 8, diphtheria 2.

NEW YORK.—Month of February, 1910. Population 8,871,720. Total number of deaths from all causes 12,863, including typhoid fever 87, measles 166, scarlet fever 225, diphtheria 259, tuberculosis 1,371. Cases reported: Typhoid fever 456, smallpox 38, measles 9,726, scarlet fever 3,655, diphtheria 2,018, tuberculosis 2,416.

Auburn.—Month of February, 1910. Population 38,500. Total number of deaths from all causes 49, including tuberculosis 5. Cases reported: Typhoid fever 1, scarlet fever 16, diphtheria 2, tuberculosis (pulmonary) 8.

FOREIGN AND INSULAR.

CHINA.

AMOY-Smallpox.

Acting Assistant Surgeon Moorhead reports, February 21:

Week ended February 19. Smallpox is present in the international settlement of Kulangsu, and smallpox deaths among children are reported from the mission districts of Amoy. A case of smallpox among the foreign crew of a regular passenger steamship running between Amoy and Hongkong was landed at Hongkong. It is believed that the infection was acquired in Amoy.

SHANGHAI-Smallpox-Inspection of Vessels.

Acting Assistant Surgeon Ransom reports, February 24 and March 2:

Week ended February 19. The weekly report of the municipal health officer shows 1 new case of smallpox among foreigners and 5 deaths from smallpox among natives. During the corresponding period of last year there was but 1 death from smallpox among natives. Reports from Hankow show smallpox present in the native city.

Reports from Hankow show smallpox present in the native city.

Week ended February 26. Two deaths from smallpox were reported among natives at Shanghai. Supplemental bills of health were granted to 3 steamships having an aggregate personnel of 733. Vessels inspected, 2; members of crews and steerage passengers inspected, 132 and 9, respectively; manifests viséed for 8,256 pieces of freight, of which 88 pieces consisted of human and other hair, and hides, disinfected; 11 pieces of baggage disinfected.

CUBA.

CIENFUEGOS-Inspection of Vessels.

Acting Assistant Surgeon Suarez reports, March 16:
Week ended March 12. Vessels inspected, 3; bills of health issued,
3; members of crews of outgoing vessels inspected, 77.
No quarantinable disease reported.

HABANA-Inspection of Vessels.

Acting Assistant Surgeon Villoldo reports, March 22:

Week ended March 19. Bills of health issued, 32; vessels inspected, 27; members of crews of outgoing vessels inspected, 1,490; passengers of outgoing vessels inspected, 1,342.

No quarantinable disease reported.

MATANZAS—Inspection of Vessels.

Acting Assistant Surgeon Nuñez reports, March 21:

Week ended March 19. Bills of health granted to 10 vessels clear-

ing for United States ports.

No quarantinable disease reported. The department of sanitation reports the inspection of 3,759 houses from March 1 to 10.

SANTIAGO-Inspection of Vessels.

Acting Assistant Surgeon Wilson reports, March 15 and 16:

Week ended March 5. Bills of health issued to 8 vessels. Week ended March 12. Bills of health issued to 8 vessels. These vessels were all bound for the United States and its dependencies.

The department of sanitation reports for the week ended March 5, 2,714 houses inspected, and for week ended March 12, 1,800 houses

inspected.

No quarantinable disease was reported.

INDIA.

CALCUTTA-Cholera, Plague, and Smallpox.

Acting Assistant Surgeon Allan reports, February 24:

Week ended February 12. At Calcutta, there were 51 deaths from cholera and 13 from plague; in all Bengal, 2,498 cases of plague with 2,120 deaths; in all India, 17,412 cases of plague with 15,286 deaths.

ITALY.

NAPLES-Examination of Emigrants-Smallpox.

Surgeon Geddings reports, March 7:

Vessels inspected at Naples and Palermo week ended March 5.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage dis- infected.
Mar. 2 2 3 4 4 4	Italia. Batavia. San Giorgio. König Albert	dodododododod	880 1,292 373 986 528 1,291	80 105 35 50 40 120	1,150 1,580 650 1,270 870 1,650
4 5	Saxsonia	' do	1,168 6,518	115 545	1,32

PALERMO.

Mar.	ItaliaSan Giorgio		1,150 700	350 300
	Total	 1, 121	1.850	650

April 1, 1910 416

Rejections recommended.

NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Small- pox.	Other causes.	Total.
Mar. 2 2 3 4 4 4 4 4	Roma. Duca di Genova. Italia. Batavia. San Giorgio. König Albert. Saxsonia.	15 4 12 17 13	2 5 4 3 1 5	7 6 3 11 6 8	1 1	1	3 12 5 7 4 8	19 39 16 33 29 35
5	Canopic	14	5	10			2	31
	Total	82	25	. 51	2	1	41	202

PALERMO.

Mar.	4	ItaliaSan Giorgio	29 26	 32 48		6 3 77
		Total	55	 80	5	140

Smallpox in Naples.—During the week ended March 6, 23 cases of smallpox with 4 deaths were reported at the health office of the city

of Naples.

A case of smallpox was discovered at the examination of steerage passengers for the steamship *Duca di Genova* March 2. The patient was sent to the Cotugno Hospital for contagious diseases. Fifteen contacts were revaccinated and placed under observation and their boarding house was disinfected.

JAPAN.

YOKC HAMA-Inspection of Vessels-Plague Rats at Kobe.

Surgeon Irwin reports, February 28:

Week ended February 26. Vessels inspected: Steamships *Ning Chow*, for Manila, crew 96, steerage passengers 52, and *Korea* for San Francisco, crew 281, cabin passengers 68, steerage passengers, 549.

At Kobe 13 cases of plague have been reported since January 1,

and plague-infected rats continue to be found.

Smallpox is reported present in the village of Ilmyonkyo, Province of South Choule, Korea.

KOBE-Inspection of Vessels-Plague.

Acting Assistant Surgeon Smith reports, March 2:

Week ended February 26. Supplemental bills of health issued to 4 steamships; members of crews inspected, 498; steerage passengers inspected, 560; members of crews and steerage passengers bathed, 2 and 265, respectively; pieces of baggage and bedding steamed, 768 and 530; manifests viséed for 48,899 pieces of freight amounting to 3,629 tons.

Emigrants inspected and passed.—Per steamship Korea for Honolulu, 260; for San Francisco, 5. Twenty Japanese and 150 Russians were 7 days in quarantine detention at Ono before embarkation; 95 Russians were landed direct from ship at quarantine detention station (1 day in quarantine) and transferred from Ono detention station to steamship Korea.

The official returns of infectious disease show 1 case of plague.

417

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, March 21, that no case of yellow fever and no death from the said disease were registered in the Mexican Republic during the week ended March 19, 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, March 17:

Week ended March 16. Vessels inspected: March 14, steamship *Texas* for Galveston via Veracruz; March 15, steamship *San Cristobal* for Mobile; March 16, steamships *Massachusetts* for Delaware Breakwater, *Californian* for Veracruz, and *Hermann Menzell* for Texas City.

PERU.

CALLAO-Fumigation of Vessels-Plague.

Acting Assistant Surgeon Castro-Gutierrez reports, February 24 and March 9:

Week ended February 19. Three steamships and 2 sailing vessels having an aggregate personnel of 217 and carrying 63 cabin and 9 steerage passengers were fumigated. Week ended February 26. Three steamships, crews 205, cabin and steerage passengers 120 and 47 respectively, inspected; two of these vessels were fumigated.

Two cases of plague have occurred at Callao, 1 on February 2 and 1 February 7. At Mollendo 6 cases of plague with 2 deaths were reported February 25 as having occurred during the previous 2 weeks and mortality among rats was observed in certain parts of the town.

Plague is reported present at Lomas, Peru.

On February 18 the steamship Ammon arrived at Callao with a case of plague on board among the crew. The Ammon had previously been dispatched, after fumigation, from Callao for Guayaquil, where the vessel took on cargo, proceeding to Salina Cruz via Mexican and Central American ports and leaving Salina Cruz for Callao January 31. The patient was taken ill February 10. The disease was recognized as plague on inspection at Callao and the patient was removed to the lazaretto at Lima. The vessel was fumigated and the clothing and bedding of the crew were disinfected on shore. The Ammon then continued her voyage to Pisco, Peru, where the port physician declared the existence of a second case on board. It is believed that infected rats were taken on with the cargo at Guayaquil.

PHILIPPINE ISLANDS.

Passed Assistant Surgeon Victor G. Heiser, chief quarantine officer for the Philippine Islands, reports, February 1 and 10:

Cholera Outbreak from Infection on Lighter.

There has been a steady decline in the number of cholera cases in Manila and throughout the provinces. With one exception the disease has been occurring only in isolated and scattered form over a widely distributed section of the country.

The importance, however, of the constant vigilance which is necessary in order to avoid a general outbreak is well shown by the experience of a few weeks ago. A casco (lighter) proceeded from Limay, Bataan, to Cawit, Cavite, with 12 persons on board.

This is a trip across Manila Bay of but a few hours' duration and between ports in which no quarantine inspection takes place. One of the persons was suffering from cholera at the time he embarked, and at the time the casco reached Cawit a number of cases had These were surreptitiously landed, and the presence of the disease was concealed from the authorities. A period of 3 days passed before the presence of cholera became known, and, during this period, more than 50 cases occurred. Most energetic measures were at once instituted to eradicate the infection, and the number of cases has now been reduced to about 2 per day, with every prospect of the disease being completely eliminated within a very short time.

Experiences of this kind again demonstrate the necessity of maintaining at least a certain amount of vigilance over the shipping of the Philippine Islands, and show that the time has not yet arrived when the inspection of vessels can be entirely confined to arrivals from

foreign ports.

Cholera in the Provinces.

WEEK ENDED JANUARY 29.

Province.	Cases.	Deaths.
Bataan. Bohol. Cavite Misamis. Pampanga.	19 2 59 2 15	10 42 11
Total	97	78
WEEK ENDED FEBRUARY 5.		
Bataan Bohol Cavite Cabu Misamis Pampanga	37 5 36 35 20 7	22 37 24 11
Total	140	110
WEEK ENDED FEBRUARY 12.		
Bataan Bohol Cavite Misamis Pampanga	4 5 6 7	1 3 4 10

Quarantine ble Diseases in Manila.

18

Week ended January 29. In the city of Manila 6 cases of cholera with 6 deaths, and 4 cases of smallpox were reported; week ended February 5, 5 cases of cholera with 5 deaths, and 2 cases of smallpox; week ended February 12, 3 cases of cholera with 3 deaths, and 1 case of smallpox.

419

Inspection of Vessels.

January 24, the Norwegian steamship Standard, with 39 in crew, en route from Phnom Penh to Iloilo, granted a supplemental bill of health. January 25, the American steamship Minnesota, with 269 in crew and 102 cabin and 64 steerage passengers, granted a bill of health for Seattle via Hongkong and Japan ports. Cargo inspected and passed before loading, and cargo manifests signed. Personnel inspected at hour of sailing. January 29, the Norwegian steamship Solstad, with 40 in crew, en route from Phnom Penh to Iloilo, granted a supplemental bill of health. February 5, the American steamship Korea, with 281 in crew and 58 cabin and 317 steerage passengers, granted a bill of health for San Francisco via Hongkong and Japan ports. Cargo inspected and passed during loading. Manifests for same signed. February 5, the British steamship Oceano, with 58 in crew, granted a bill of health for Seattle via Cebu, Hongkong, and Japan ports. Cargo taken on at this port inspected and passed prior to loading, and manifests for same signed. February 12, Norwegian steamship Rygja with 42 in crew granted a bill of health for Portland, Oreg., via Hongkong, Japan ports, and Honolulu. Cargo inspected and passed prior to loading and manifests for same signed. Vessel fumigated throughout while in port. Quarantine regulations for incoming interisland vessels at the port of Manila were modified during the week ended February 12.

RUSSIA.

Typhus Fever-Examination of Emigrants.

Acting Assistant Surgeon De Forest, at Libau, reports, March 14: Week ended March 12. At Riga from March 7 to 12, 102 cases of typhus fever with 20 deaths were reported; from January 30 to March 12, 692 cases. At Reval 1 case of typhus fever was reported March 7.

The plague outbreak in the government of Astrakhan is extinct. For the steamship *Lituania* sailing for New York, March 15, 912 emigrants were examined. Six cases of smallpox were found among them. The cases were isolated and the remaining emigrants vaccinated.

VENEZUELA.

LA GUAIRA-Inspection of Vessels.

Acting Assistant Surgeon Kellogg reports, March 6:

Week ended March 5. Vessels inspected: February 28, steam-ship Zulia for New York, crew 51; March 2, steamship Wm. Cliff for Galveston, crew 45, passengers in transit 3; March 4, steamship Prins Willem V, for New York, crew 89, passengers in transit 6, taken on at this port 9.

No quarantinable diseases were reported at La Guaira or Maiquetia.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended April 1, 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.]

•	сно	LERA.		
Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo	Feb. 13-19	5		
Bombay Philippine Islands:	Feb. 16-22		. 2	
Manila Provinces—	Jan. 23-Feb. 12	14	14	
BataanBohol	Jan. 23-Feb. 12 Jan. 23-Feb. 12	60 12	46 8	
CebuCavite	Jan. 30-Feb. 4 Jan. 23-Feb. 12	35 101	25 83	Jan. 1-Feb. 12, 50 cases from
MisamisPampanga.	Jan. 23–Feb. 12 Jan. 23–Feb. 12	29 25	22 19	coasting vessél.
	PLA	GUE.	<u> </u>	
Brazil:			T	
BahiaSantos	Jan. 30–Feb. 11 Feb. 2	5	3	Present.
Chile: Iquique	Feb. 24			Endemic.
China: Hankow	Feb. 1			Present.
India: BombayKurrachee	Feb. 16-22 Feb. 13-19	86	88 78	
apan: Kobe	Feb. 20-26	1		
Peru: Callao	Feb. 2-7	2		
LimaMollendo	Feb. 11–25 Feb. 11–25	1 6	2	In lazaretto from s. s. Ammon.
Pisco	Feb. 19	1		From s. s Ammon.
Bangkok Furkey in Asia:	Dec. 26-Jan. 22	6	5	
Jiddah	Mar. 2-6	12	12	
	SMAL	LPOX.		>
Abyssinia:				
Adis Ababa	Feb. 19			Epidemic.
BohemiaGalicia	Feb. 20–26 Feb. 20–26	1 8		
Brazil: Bahia	Jan. 30-Feb. 11	45	29	
Pernambuco	Jan. 1-15 Feb. 11-27	2	44	
anada: Ontario—	100.11 2	-		
Port Arthur	Mar. 11-19	5		
Colombo	Feb. 6-12	5		
Amoy	Feb. 6-12 Jan. 21-Feb. 23	55	1 9	
Hankow	Feb. 12	7		Present.
HongkongShanghai	Feb. 9-27	2	9	Deaths among natives.
Gypt: Cairoermany, general	Feb. 27-Mar. 4	6	1	
Bremen	Mar. 6-12 Feb. 27-Mar. 5	1		
reat Britain: London	Jan. 31-Mar. 5	1		. <i>'</i>
Newcastle-on-Tyne	Jan. 31-Mar. 5		1	
Athens	Feb. 20-26		2	

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

Reports Received During Week Ended April 1, 1910.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
taly, general	Feb. 28-Mar. 6			
Naples	Feb. 28-Mar. 6	23	4	1
ndia: -				
Bombay	Feb. 16-22		. 34	i e
	Feb. 12-18		1	1
Kurrachee	Feb. 13-19	2		
apan:	1	l	1	
Formosa	Feb. 13-19	7	2	
ava:	ĺ	1		1
Batavia	Feb. 6-12	1	i	Ī
Corea:		-	1	
Ilmyokyo	Feb. 26		1	Present.
dexico:			1	1
Aguascalientes	Mar. 6-12	t	3	
Guadalajara	Mar. 5-11		ĭ	
			•	i
hilippine Islands: Manila	Jan. 23-Feb. 12	7	!	
Portugal:	van. 20-1 CD. 12			
Lisbon	Feb. 26-Mar. 5	27	1	i
Russia:	Feb. 20-Mai. 0			ĺ
Libau	Feb. 29-Mar. 6	6		
	Feb. 20-Mar. 5			i I
Dies	Feb. 20 Mer 5	66	14	
Riga	Feb. 28-Mar. 5 Feb. 20-26	50	14	į
St. retersburg	Jan. 9-22	30	42	
Warsaw	Jan. 9-22		42	
iberia: Vladivostok	Jan. 28-Feb. 5	3		
	Jan. 28-Feb. 5	3		
ingapore:	Feb. 6-12		2	
Straits Settlements	Feb. 0-12	• • • • • • •	2	
pain:	35 1 7		1	
Barcelona		• • • • • • • • •	1	Decemble vicinity
Vigo	red. 2/-Mar. 5	• • • • • • •		Present in vicinity.
urkey in Asia:	35 5			Descent
Trebizond	Mar. 5			Present.

Reports Received from January 1 to March 25, 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.
Germany:				
Heydekrug	Nov. 19-Dec. 4	. 2		
Niedrung		. 1		
India:	1	l		
Bombay	Nov. 24-Feb. 8		19	
Calcutta	Nov. 14-Feb. 5		410	
Madras	Jan. 1-Feb. 4	1	2	
Rangoon		1	41	
Java:		1		
Batavia	Nov. 14-Mar. 5	388	111	
Norway:	!	1		
Friedershald	Dec. 31-Jan. 3	1	1	From a vessel from Riga.
Persia:		1		!
Astara	Dec. 1–15	36	22	
Philippine Islands:		1		
Philippine islands: Manila	Nov. 7-Jan. 22	95	81	Third quarter, 1909. Cases 82
	1	1	l	_ deaths 61.
Provinces	. 			Third quarter, 1909. Cases 3,946
				deaths 2,609.
Albay	Nov. 7-20	6	6	
Bataan	Nov. 7-Jan. 22	155	106	
Bohol	Nov. 7-Jan. 22	35	20	
Bulacan	Nov. 7-Jan. 1	32	27	
Camarines			5	
Capiz	Nov. 21-Dec. 18	3	_2	
Cavite	Nov. 7-Jan. 22	105	76	3741
	Nov. 7-Jan. 22		226	Nov. 20, 1 case on s. s. Yaptico.
	Dec. 19–25	4	4	
Levte	Nov. 21-Jan. 15	36	32	

${\bf CHOLERA,\ YELLOW\ FEVER,\ PLAGUE,\ AND\ SMALLPOX-Continued}.$

Reports Received from January 1 to March 25, 1910.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Continued				
Provinces—Continued.	i .		1	
Misamis	. Jan. 16-22	. 11	11	
Oriental Negros	. Nov. 7-20	. 10	5	•
Pampanga	. Nov. 7-Jan. 22	. 157	124	
Rizaf	. Nov. 7-Jan. 22	. 11	7	
_ Tarlac	Nov. 7-13	. 9	5	1
Russia, general	Nov. 21-Jan. 29	. 440	203	
Baku, government Baku	. Nov. 21-Dec. 25	. 22	22 17	į .
_ Baku	Nov. 7-13 Nov. 21-Jan. 29 Nov. 21-Dec. 25 Nov. 21-Jan. 15	. 27	17	
Don, territory	.] NOV. 28-Jan. 29	. 19	12	Į.
Ekaterinslav, government Jaroslav, government	Nov. 21-Jan. 1	. 23	7	1
Jarosiav, government	NOV. 21-2/	· : -	i	1
Kaluga	Now 21 27	. 1	4	1
Kostroma, government	NOV. 21-21	- 3		1
Kovna, government Kursk, government	Nov. 21-27 Nov. 21-Dec. 11	. 8	3	, ,
Moscow government	Nov. 21-Dec. 11	. 6		1
Moscow, government— Moscow	Nov. 29-Jan. 22	256	115	
Pskov, government	Nov. 21-27	10	110	1
St Peterchurg government	Nov 21-Dec 18	14	12	i
St. Petersburg, government. St. Petersburg	Nov. 21-Dec. 18 Nov. 21-Jan. 1 Nov. 21-Dec. 25	53	12	i
Taurida government	Nov. 21-Dec. 25	66	28	
Taurida, government Vitebsk, government	Nov. 21-27	2		
Siam:	1	_		1
Bangkok	Oct. 28-Jan. 22	12	12	ł
Siberia:	1			
Vladivostok	Nov. 16-21	. 1	l 	i
Straits Settlements:		_		
Singapore	Dec. 19-Jan. 15	!	4	
Sumatra:			_	
Palembang	Sept. 20-Oct. 20	936	675	•
Furkey in Asia:	-			
Trebizond	Nov. 28	1	.	On a vessel from Batum.
	YELLOW	FEVE	к.	
Provile	I ELLOW	FEVE	к.	
Brazil: Manaos	Nov. 21-Feb. 26	FEVE	K. 48	
Manaos Para		66		
Manaos Para Scuador:	Nov. 21-Feb. 26 Nov. 28-Feb. 26	66	48	
ManaosPara Ccuador: Babahoyo	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15	66	48 52	
ManaosParaCcuador: BabahoyoGuayaquil.	Nov. 21-Feb. 26 Nov. 28-Feb. 26	66	48	
Manaos. Para	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15	66 4 107	48 52 31	
Manaos. Para. Ceusdor: Babahoyo. Guayaquil	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15	66	48 52	From s. s. Loa.
Manaos. Para. Cuador: Babahoyo. Guayaquil Peru: Callao. [Exico:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15	66 4 107	48 52 31	From s. s. Loa.
Manaos. Para	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2	66 4 107	48 52 31	From s. s. Loa.
Manaos Para. Cenador: Babahoyo. Guayaqufi. eru: Callao. [exico: Yucatan— Merida.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2	66 4 107 1	48 52 31 1	From s. s. Loa.
Manaos. Para. Cuador: Babahoyo. Guayaquil. Callao. Iexico: Yucatan— Merida. Santa Cruz de Bravo	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2	66 4 107	48 52 31	From s. s. Loa.
Manaos. Para. Cuador: Babahoyo. Guayaquii. callao. (exico: Yucatan— Merida. Santa Cruz de Bravo 'anama:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2	66 4 107 1	48 52 31 1	From s. s. Loa.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Peru: Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo Canail Zone—	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21	66 4 107 1	48 52 31 1	
Manaos. Para. Cuador: Babahoyo. Guayaquii. callao. (exico: Yucatan— Merida. Santa Cruz de Bravo 'anama:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2	66 4 107 1	48 52 31 1	At Ancon hospital, from s.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil. eru: Callao. fexico: Yucatan— Merida. Santa Cruz de Bravo Panama: Canal Zone— Ancon	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Jan. 24	66 4 107 1	48 52 31 1 1	At Ancon hospital, from s. : Barbadian.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Peru: Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo Canail Zone—	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21	66 4 107 1	48 52 31 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station
Manaos. Para. Cenador: Babahoyo. Guayaquii. Callao. Lexico: Yucatan— Merida. Santa Cruz de Bravo 'anama: Canal Zone— Ancon. Culebra Island	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Jan. 24	66 4 107 1	48 52 31 1 1	At Ancon hospital, from s. : Barbadian.
Manaos. Para. Para. cuador: Babahoyo. Guayaquil. eru: ceru: Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo anama: Canal Zone— Ancon. Culebra Island rinidad:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8	66 4 107 1 1 1 1	48 52 31 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine statio
Manaos Para Para Cuador: Babahoyo. Guayaquii. Callao. Lexico: Yucatan— Merida Santa Cruz de Bravo anama: Canal Zone— Ancon Culebra Island	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Jan. 24	66 4 107 1	48 52 31 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station
Manaos. Para. Para. cuador: Babahoyo. Guayaquil. eru: ceru: Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo anama: Canal Zone— Ancon. Culebra Island rinidad:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 Nov. 28-Dec. 4	66 4 107 1 1 1 1	48 52 31 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine statio
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Peru: Callao. Lexico: Yucatan— Merida. Santa Cruz de Bravo Panama: Canal Zone— Ancon. Culebra Island. Port of Spain.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 Nov. 28-Dec. 4	1 1 1 1	48 52 31 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquii. callao. [exico: Yucatan— Merida. Santa Cruz de Bravo anama: Canal Zone— Ancon. Culebra Island. crinidad: Port of Spain	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 Nov. 28-Dec. 4	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Peru: Callao. Lexico: Yucatan— Merida. Santa Cruz de Bravo Panama: Canal Zone— Ancon. Culebra Island. Port of Spain.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 Nov. 28-Dec. 4	1 1 1 1	48 52 31 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame
Manaos. Para. Para. Cuador: Babahoyo. Guayaquii. Callao. fexico: Yucatan— Merida Santa Cruz de Bravo. Ancon. Culebra Island. Culebra Island. Trinidad: Port of Spain	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 Nov. 28-Dec. 4	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil. Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo Panams: Canal Zone— Ancon. Culebra Island. Port of Spain rabia: Aden razil:	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23	1 GUE.	31 1 1 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame
Manaos. Pars. Pars. Cuador: Babahoyo. Guayaquii. eru: Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo Panama: Canal Zone— Ancon. Culebra Island. Finidad: Port of Spain rabia: Aden razii: Bahia.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23	1 GUE.	48 52 31 1 1 1 1 1 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame
Manaos. Para. Para. cenador: Babahoyo. Guayaquii. callao. [exico: Yucatan— Merida. Santa Cruz de Bravo anama: Canal Zone— Ancon. Culebra Island. rinidad: Port of Spain rabia: Aden razil: Bahia. Para.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 18	1 GUE.	48 52 31 1 1 1 1 1 1 1 1 1 25 9	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Pari. Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo. Panama: Canal Zone— Ancon. Culebra Island. Port of Spain rabia: Aden razil: Bahia. Para. Para. Para. Para. Pernambuco.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 18	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 1 1 25 9 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame
Manaos. Para Para Cuador: Babahoyo. Guayaquii Callao. fexico: Yucatan— Merida Santa Cruz de Bravo. Ancon. Culebra Island Trinidad: Port of Spain rabia: Aden razil: Bahia. Para. Pernambuco. Rio de Janeiro	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 19 Oct. 15-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 21-Feb. 28 Nov. 20-Feb. 38 Nov. 20-Feb. 31 Nov. 21-Feb. 31	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 25 9 21	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Hualiago. From an Austrian mail steams from Bombay.
Manaos. Para. Para. Ceusdor: Babahoyo. Guayaquil Pari. Callao. (exico: Yucatan— Merida. Santa Cruz de Bravo. Panama: Canal Zone— Ancon. Culebra Island. Port of Spain rabia: Aden razil: Bahia. Para. Para. Para. Para. Pernambuco.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 16 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 18	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 1 1 25 9 1	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steame from Bombay. One case from bark Amazone
Manaos. Para. Para. Cuador: Babahoyo. Guayaquii. eru: Callao. fexico: Yucatan— Merida Santa Cruz de Bravo. Ancon. Culebra Island. frinidad: Port of Spain razii: Bahia. Para. Pernambuco. Rio de Janeiro. Santos.	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 19 Oct. 15-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 21-Feb. 28 Nov. 20-Feb. 38 Nov. 20-Feb. 31 Nov. 21-Feb. 31	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 25 9 21	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Hualiago. From an Austrian mail steams from Bombay.
Manaos. Para. Para. cuador: Babahoyo. Guayaquil. erri: Callao. [exico: Yucatan— Merida Santa Cruz de Bravo. anama: Canal Zone— Ancon. Culebra Island rinidad: Port of Spain rabia: Aden razil: Bahia. Perrambuco. Rio de Janeiro	Nov. 21-Feb. 26 Nov. 28-Feb. 26 Jan. 1-Feb. 15 Dec. 1-Feb. 15 Nov. 2-Dec. 2 Dec. 20-21 Dec. 20 Jan. 24 Mar. 1-8 PLA Jan. 21-23 Nov. 20-Feb. 28 Nov. 28-Feb. 19 Oct. 15-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 29-Dec. 31 Nov. 21-Feb. 28 Nov. 20-Feb. 38 Nov. 20-Feb. 31 Nov. 21-Feb. 31	1 1 1 GUE.	48 52 31 1 1 1 1 1 1 25 9 21	At Ancon hospital, from s. Barbadian. At Culebra quarantine station from s. s. Huallago. From an Austrian mail steams from Bombay. One case from bark Amazon

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

Reports Received from January 1 to March 25, 1910.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
hina:	N 07 D	-		
Hankow	Nov. 27-Dec. 7		20	
Hongkong	Nov. 21-27	1	1	
cuador: Babahoyo	Dec. 16-Feb. 15	18	6	1
Guayaquil	Dec. 1-Feb. 15		87	
Milagro	Jan. 1-Feb. 15	15	3	1
gypt:	Jan. 1-1 cb. 10	10	"	j
Alexandria	Nov. 19-Dec. 15	3	2	1
Port Said	Nov. 19-Dec. 15 Nov. 30-Dec. 22	2	1	1 .
Provinces—			_	
Assiout	Sept. 29-Feb. 17	30	11	
Beherach	Dec. 8-14	1	1	
Beni Souef	Dec. 16-Feb. 17	19	8	
Fayoum	Jan. 20-Feb. 12	4	3	
Galioobeh	Jan. 11-Feb. 3	3	1	
Garbieh	Feb. 2	1	1	
GirgehGhizeh	Dec. 19-26	2	1	
Ghizeh	Dec. 19-Jan. 2	2		
Kena	Feb. 3		1	
Menouf	Nov. 28-Dec. 15	17	6	
Minieh	Dec. 21-27	3	1	
erman East Airica:		_	į	
Mpwapwa	Sept. 19-Oct. 5	7		
lawaii:	35 10 00	١.		
Hilo	Mar. 12-22	4	4	
Honokaa	Mar. 14–15	2	2	
ndia:	N 04 E-b 0		135	1
Bombay	Nov. 24-Feb. 8			
Calcutta	Nov. 14-Jan. 29	5	8	
Kurrachee	Jan. 2-15	0		i
Madras	Dec. 18–Jan. 21 Nov. 20–Jan. 29 Nov. 7–Jan. 22		38	1
Rangoon	Nov. 20-1811. 29	11 127		
Bombay Presidency and Sind.	NOV. 7-Jan. 22	11,137	7,821	
	Nov. 7 Ion 22	1,011	705	
Madras Presidency	Nov. 7-Jan. 22 Nov. 7-Jan. 22 Nov. 7-Jan. 22	8 100	6,509	
Bengal	Nov. 7 Jan. 22	8, 109 36, 037	33,019	
United provinces	Nov. 7-Jan. 22	14,277	11 704	•
Punjab Burma.	Nov 7-Jan 22	898	11,704 766	
Central provinces, includ-	Nov. 7–Jan. 22 Nov. 7–Jan. 22	10,322	8,355	
ing Berar.	110111 00001 221111	10,022	0,000	
Coorg	Nov. 14-27	5	1	
Mysore State	Nov 7_Ian 22	1,388	1,020	
Hyderabad State	Nov. 7-Jan. 22	155	126	
Central India	Nov. 7–Jan. 22 Nov. 7–Jan. 22 Nov. 7–Jan. 22	850	638	
Rajputana and Ajmer-Mer-	Nov. 7-Jan. 22	4,157	3,674	
wara.				
Kashmir	Nov. 7-Jan. 22	165	110	
Grand total		88, 511	74,448	
ndo-China:			l	
Saigon	Nov. 7-Dec. 25	5	4	
apan:		١		
Kobe	Nov. 28-Feb. 12	24	20	
Shikoku Island	Jan. 30-Feb. 5	1	· · · · · · · · · · · · · · · · · · ·	F- 43
araguay	Dec. 10		30	In the northern part.
eru:				
Arequipa, department Mollendo	Dec. 10-16	1		
Mollendo	Dec. 20-Jan. 1	1		
Callao, department—	T 17 07	3		
Callao	Jan. 17-25			
Lambayeque, department	Oct. 1-Dec. 16	39 32	13 3	
Libertad, department	Nov. 19-Dec. 16	10	6	
Lima, départment	Oct. 22-Dec. 16	10	0	
ussia:	Dog 5 Feb 27	134	120	·
Astrakan, government	Dec. 5-Feb. 27 Jan. 17-Feb. 2	26	26	
Naourzali-Tchagil	Dog 10 14	18	26 16	
Beiskulak	Dec. 10-16	18		
Bodai	Mar. 1	9		Present.
DscheddaLibau	Jan. 7 Dec. 3–9	·····i		A POSCUE.
	Dec. 9-a	208	202	
Timolek district	Mary 95 Iam 10			
Uralsk, district	Nov. 25-Jan. 12	200	202	
Uralsk, districtiam:				-
Uralsk, district	Nov. 25-Jan. 12 Oct. 28-Nov. 27	5	5	-

Place.

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

Reports Received from January 1 to March 25, 1910.

PLAGUE-Continued.

Date.

Cases. Deaths.

Remarks.

Turkey in Asia:	riace.	Dave.	Cases.	Deaths.	Kemaras.
Beirut Nov 29-Dec 14 3 Venezuelas	multiplication Asia				
Jiddah Jan. 5-Feb. 27, 8 7 Prefor Cabello Feb. 24, 2 2 2 2 2 2 3 4 4 2 2 2 2 2 3 4 4 4 2 2 2 3 4 4 4 4 4 4 4 4 4	1 urkey III ASIS:	Nov. 20 Dec 14	9		1
Venezuela: Puerto Cabello Feb. 24	Iiddeh	Ion 5 Feb 27	ွ	7	1
Puerto Cabello	Venezuela:		_	1 '	
SMALLPOX Algeria, general Dec. 1-16. 22 Algiers Algiers Nov. 1-Jan. 31. 3 Bons. Dec. 1-Jan. 31. 11 9 Argentina: Buenos Aires Oct. 1-Dec. 31. 85 Sept. 205 Sept. 20	Puerto Cabello	Feb. 24	2	1	
Algeria, general Algiers. Nov. 1-Jan. 31. 11 9 Argentina: Dec. 1-Jan. 31. 11 9 Austria: Galicia Jan. 1-29. 3 Venna Jan. 9-29 2 19 Brazil: Bana Dec. 1-Jan. 15. 205 133 Brazil: Bana Dec. 1-Jan. 15. 205 133 Brazil: Bana Dec. 1-Jan. 15. 205 133 Sao Paulo. Nov. 2-Feb. 13. 23 1 Sao Paulo. Nov. 2-Feb. 13. 23 1 Sao Paulo. Nov. 1-21 3 2 1 Sao Paulo. Nov. 1-Jan. 3 3 Nova Scotia—Halifax Dec. 1-Jan. 31. 40 Chile: Antofagasta Jan. 1 Present. Feb. 12, 8 cases in la aretto. Present. Peb. 12, 8 cases in la aretto. Present. Present. Peb. 12, 8 cases in la aretto. Present. P	Zanzibar	Nov. 9-17	• a 2	2	
Algeria, general Algiers. Nov. 1-Jan. 31. 11 9 Argentina: Dec. 1-Jan. 31. 11 9 Austria: Galicia Jan. 1-29. 3 Venna Jan. 9-29 2 19 Brazil: Bana Dec. 1-Jan. 15. 205 133 Brazil: Bana Dec. 1-Jan. 15. 205 133 Brazil: Bana Dec. 1-Jan. 15. 205 133 Sao Paulo. Nov. 2-Feb. 13. 23 1 Sao Paulo. Nov. 2-Feb. 13. 23 1 Sao Paulo. Nov. 1-21 3 2 1 Sao Paulo. Nov. 1-Jan. 3 3 Nova Scotia—Halifax Dec. 1-Jan. 31. 40 Chile: Antofagasta Jan. 1 Present. Feb. 12, 8 cases in la aretto. Present. Peb. 12, 8 cases in la aretto. Present. Present. Peb. 12, 8 cases in la aretto. Present. P		1	1	<u> </u>	
Bona. Dec. 1-Jan. 31. 11 9		· SMAL	LPOX.		
Bona. Dec. 1-Jan. 31. 11 9	Algeria, general	Dec. 1-15	22		
Argentina:	Algiers	Nov. 1-Jan. 31	· · · · · · · · · · · · · · · · · · ·		
Buenos Aires				9	
Austria: Galicia. Jan. 1-29. Vienna. Jan. 9-29. Vienna. Sao Paulo. Nov. 2-Feb. 13. Sao Paulo. Nov. 1-21. Sao Paulo. Nov. 2-Feb. 13. Vienna. Windsor. Dec. 19-Mar. 5. Sao Windsor. Dec. 1-Jan. 31. Vienna. Amoy. Vienna. Vienna. Nov. 28-Peb. 5. Valparaiso. Nov. 20-Jan. 1. Do. China. Amoy. Nov. 28-Peb. 5. China. Amoy. China. Nov. 28-Peb. 5. Schar. 5. Sao Paulo. Nov. 28-Peb. 5. Schar. 5. Sao Paulo. Do. Do. Do. Do. Do. Do. Do. Do. Do. D	Buenos Aires	Oct. 1-Dec. 31		85	
Vienna		!			1
Barali		Jan. 1–29	3		r
Bahia		Jan. 9-29	2		1
Saso Paulo		Nov. 20-Jan. 28	205	135	
Saso Paulo		Oct. 16-Jan. 15			
Saso Paulo	Rio de Janeiro	Nov. 2-Feb. 13	23	1 1	
British Colombia		Nov. 1-21		2	
Vancouver					
Nova Scotia		Ian 1-31	2		
Halifax Dec. 19-Mar. 5. 3 40		Jan. 1-01	3		
Chile:	Halifax	Dec. 19-Mar. 5	3		
Antofagasta Jan. 1. Present. Feb. 12, 8 cases in la quillota Nov. 28-Dec. 4 Present. Valparaiso Nov. 20-Jan. 1 Present.	Windsor	Dec. 1-Jan. 31	40		
Quillota Nov. 28-Dec. 4 Present. Valparaiso Nov. 20-Jan. 1 Do. China: Nov. 28-Feb. 5 7 Amoy Nov. 28-Feb. 5 7 Canton Dec. 12-Jan. 29 50 Chin Be Dec. 11 Do. Chio Be Dec. 11 Do. Hongkong Feb. 5 1 Shanghal Nov. 1-Feb. 8 1 Cuba: Habana Dec. 3-9 1 Habana Dec. 3-9 1 From S. S. La Navarre. Guayaquil Jan. 1-31 3 3 Eypt, general Nov. 5-Jan. 21 562 150 Alexandria Nov. 26-Feb. 18 13 3 France: Nantes Jan. 1-31 1 1 Nantes Jan. 1-31 1 2 2 Germany, general Dec. 5-Mar. 5 98 12 1 Gereat Britain: Feb. 6-12 1 1 1 Bristol Feb. 6-12	Chile:	_			
Quillota Nov. 22-Dec. 4 Present. Valparaiso Nov. 20-Jan. 1 Do.	Antofagasta	Jan. 1			
Chins:	Onillata	Nov. 28 Dec. 1		!	
Chins:	Valnaraiso	Nov 20-Jan 1			Do
Canton Dec. 12-Jan. 29. 50 3 Chang Cheun Dec. 11 Dec. 16 Dec. 11 Do. Do. Do. Do. Do. Do. Do. Do. Do. Do.	China:				20.
Canton Dec. 12-Jan. 29 50 3 Chang Cheun Dec. 11 Dec. 11 Dec. 11 Dec. 11 Dec. 14-Key Chio Be Dec. 11 Dec. 19-Feb. 5, present amornatives.	Amoy	Nov. 28-Feb. 5		7	
Chio Be	Canton	Dec. 12-Jan. 29	50	3	•
Hongkong	Chic Po	Dec. 11	• • • • • • • •		
Hongkong	Hankow	Jec. 11			
Hongkong	II aukow	Jan. 2-10	- 1	•	natives.
Cuba: Habana Dec. 3-9 1 From S. S. La Navarre. Ecuador: Guayaquil Egypt, general Alexandria Nov. 5-Jan. 21 3 1 From S. S. La Navarre. Egypt, general Cairo Nov. 5-Jan. 21 20 19 Cairo Nantes Jan. 1-31 1 1 Paris. Konigsberg Dec. 5-Mar. 5 98 12 Germany, general Konigsberg Dec. 12-Jan. 15 2 2 Great Britain: Bristol Greenock Hull Hull London Feb. 6-12 Pec. 12-Jan. 15 Dec. 19-Feb. 5 Dec. 19-Feb. 5 Dec. 19-Feb. 5 Dec. 19-Feb. 5 Dec. 19-Feb. 5 Dec. 19-Feb. 3 Dec. 18-Feb. 13-19 Dec. 19-Feb. 3 Dec. 18-Feb. 13-19 Dec. 19-Feb. 3 Dec. 18-Feb. 12 Dec. 18-Feb. 12 Dec. 19-Feb. 15 Dec. 18-Jan. 21 Dec. 18-Jan	Hongkong	Feb. 5	1		
Habana Dec. 3-9	Shanghai	Nov. 1-Feb. 8	1	9	Deaths among natives.
Ecuador: Guayaquii		Dec 2.0		!	Enom C C I a Nament
Guayaquii		Dec. 3-9	1	•••••	From S. S. La Navarre.
Cairo. Nov. 26-Feb. 18. 13 3 France: Nantes. Jan. 1-31 1 Paris. Dec. 5-Mar. 5 98 12 Germany, general. Dec. 5-Mar. 5 79 Konigsberg Dec. 12-Jan. 15 2 2 Great Bristain: Bristol. Feb. 6-12 1 1 Greenock Feb. 6-12 1 1 Hull. Jan. 16-22 2 2 Liverpool Dec. 19-Feb. 5 9 London Nov. 28-Feb. 20 0 Newcastle-on-Tyne Feb. 13-19 3 Nottingham Jan. 16-26 4 1 Plymouth Nov. 12-18 1 South Shields Feb. 13-19 1 South Shields Feb. 13-19 1 Greece: Athens. Nov. 22-Feb. 19 4 15 Hawwii: Honolulu Jan. 31-Feb. 4 3 1 Caecutta Nov. 14-Feb. 12 10 Kurrachee Jan. 2-Feb. 12 6 Madras Dec. 18-Jan. 21 3 Rangoon Nov. 20-Feb. 5 55	Guavaquil	Jan. 1-31	3		
Cairo. Nov. 26-Feb. 18. 13 3 France: Nantes. Jan. 1-31 1 Paris. Dec. 5-Mar. 5 98 12 Germany, general. Dec. 5-Mar. 5 79 Konigsberg Dec. 12-Jan. 15 2 2 Great Bristain: Bristol. Feb. 6-12 1 1 Greenock Feb. 6-12 1 1 Hull. Jan. 16-22 2 2 Liverpool Dec. 19-Feb. 5 9 London Nov. 28-Feb. 20 0 Newcastle-on-Tyne Feb. 13-19 3 Nottingham Jan. 16-26 4 1 Plymouth Nov. 12-18 1 South Shields Feb. 13-19 1 South Shields Feb. 13-19 1 Greece: Athens. Nov. 22-Feb. 19 4 15 Hawwii: Honolulu Jan. 31-Feb. 4 3 1 Caecutta Nov. 14-Feb. 12 10 Kurrachee Jan. 2-Feb. 12 6 Madras Dec. 18-Jan. 21 3 Rangoon Nov. 20-Feb. 5 55	Egypt, general.	Nov. 5-Jan. 21		150	
France: Nantes. Jan. 1-31.	Alexandria	Nov. 5-Jan. 21			
Nantes		Nov. 26-Feb. 18	13	3	
Paris.		Ton 1 21	,		
Great Britain: Bristol. Feb. 6-12. 1	Paris	Dec 5-Mar 5		12	
Great Britain: Bristol. Feb. 6-12. 1	Germany, general	Dec. 5-Mar. 5			
Great Britain: Feb. 6-12.	Konigsberg	Dec. 12-Jan. 15	2	2	In vicinity.
Liverpool Dec. 19-Feb. 5. 9	ireat Britain:		. !		
Liverpool Dec. 19-Feb. 5. 9	Greenook	rep. 6-12			
Liverpool Dec. 19-Feb. 5. 9	Hull	Ian 16-22			
London Nov. 28-Feb. 26. 20 Newcastle-on-Tyne Feb. 13-19 3 3 Nottingham Jan. 16-26. 4 1 1 Southampton Nov. 12-18 1 Southampton Nov. 12-18 1 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 13-19 1 3 South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. South Shields Feb. 2 on s. s. Makura. Shields Feb. 2 on s. s. Shields Feb. 2 on s. s. Makura. Shields Feb. 2 on s. s. Shields Feb. 2 on s. s. Makura. Shields Feb.	Liverpool	Dec. 19-Feb. 5.			
Newcastle-on-Tyne	London	Nov. 28-Feb. 26	20		
Southampton	Newcastle-on-Tyne	Feb. 13–19	3		
Southampton	Nottingham	Jan. 16–26	4		
South Shields	Southemptor	Nov. 12-18		1	
Attens	South Shields	Feb 13-19			
Athens. Nov. 22-Feb. 19. 4 15 Hawaii: Honolulu Jan. 31-Feb. 4. 3 1 2 cases Jan. 31 from U. S. S. Wash ington from Yokohama. 1 cas Feb. 2 on s. s. Makura. Bombay Nov. 24-Feb. 15. 173 Calcutta Nov. 14-Feb. 12 10 Kurrachee Jan. 2-Feb. 12. 6 Madras Dec. 18-Jan. 21. 3 Rangoon Nov. 20-Feb. 5 55	reece:	200. 10-10-10-1	*		
Hawaii: Jan. 31-Feb. 4. 3 1 2 cases Jan. 31 from U. S. S. Wash ington from Yokohama. 1 cas Feb. 2 on s. s. Makura. India: Bombay Nov. 24-Feb. 15. 173 Calcutta Nov. 14-Feb. 12. 10 Kurrachee Jan. 2-Feb. 12. 6 Madras Dec. 18-Jan. 21. 3 Rangoon Nov. 20-Feb. 5. 55	Athens	Nov. 22-Feb. 19	4	15	
India: Bombay Nov. 24-Feb. 15. 173 Calcutta Nov. 14-Feb. 12 10 Kurrachee Jan. 2-Feb. 12. 6 Madras Dec. 18-Jan. 21. 3 Rangoon Nov. 20-Feb. 5 55	Iawaii:	Jan. 31-Feb. 4	3	1	2 cases Jan. 31 from U. S. S. Washington from Yokohama. 1 case
Bombay Nov. 24-Feb. 15. 173 Calcutta Nov. 14-Feb. 12. 10 Kurrachee Jan. 2-Feb. 12. 6 Madras Dec. 18-Jan. 21. 3 Rangoon Nov. 20-Feb. 5. 55					Feb. 2 on s. s. Makura.
Rangoon. Nov. 20-Feb. 5. 55	ndia:	Nov 24 Feb 15		170	
Rangoon. Nov. 20–Feb. 5. 55	Coloutto	Nov. 24-Feb. 15	• • • • • • • • • •		
Rangoon. Nov. 20–Feb. 5. 55	Kurrachee	Jan. 2-Feb. 12	6		•
	Madras	Dec. 18-Jan. 21	• • • • • • • • • • • • • • • • • • • •		
	Rangoon	Nov. 20-Feb. 5	,	55	
				ob 10 1010	

a Bulletin Quarantenaire, March 10, 1910.

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

Reports Received from January 1 to March 25, 1910.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.						
Indo-China:										
Saigon	Dec 7-13	1								
taly canaral	Dec. 7–13 Nov. 29–Feb. 27	224								
taly, general	Dec. 1-Feb. 28	19	1							
Milan	Jan. 1-16	1								
Naples	Dec. 6-Feb. 27	204	37	ļ .						
apan:	Dec. 0-1eb. 21	201	01							
Formosa	Feb. 6-12	3	2	ł						
Kobe	Dec. 12-25	i	ī							
ava:	Dat. 12-20	1 *	1 *	i						
Batavia	Dec. 12-Feb. 5	8	1							
Korea:	Dat. 12-1 civ. 0		1 *							
Fusan	Feb. 1-12	6	1							
iberia:	1 200. 2 22									
Monrovia	Nov. 28-Dec. 4	6	1							
[alta:	110V. 20 Dec. 1	"								
Valetta	Dec. 12-Jan. 15	3	1							
[anchuria:	Da. 12-3an. 10	, ,		i						
Tie-ling	Feb. 19		1	Present.						
lexico:	1 60. 15			Trescat.						
Aguascalientes	Dec. 12-Mar. 5		30							
Chihuahua	Dec 12-Mar 14	14	8	i						
Guadalajara	Dec. 13-Mar. 14 Jan. 29-Feb. 18	1.3	5							
Vuauaiajara	Nov. 14 Feb 10									
Mexico	Nov. 14-Feb. 19 Nov. 13-Feb. 20		10							
MontereyVeracruz.	Feb. 13-19	····i	. 2							
	Feb. 13-19									
letherlands: Rotterdam	Dec. 5-11	7								
	Dec. 5-11	•	••••	i						
'ersia: Arabistan	Dec 6 21			Do.						
Tramedon	Dec. 6-31			Do.						
Hamadan	Nov. 15-Dec. 31			Do.						
Kurdistan	Dec. 6-31			Do.						
Sultanabad	Nov. 15 Nov. 1-Dec. 2	• • • • • • •		Do. Do.						
Teheran	Nov. 1-Dec. 2	•		100.						
'eru: Callao	Dec. 6-12			Do.						
	Dec. 0-12	• • • • • • • •		10.						
hilippine Islands:	Nov. 14-Jan. 22	16	l .	Third quarter, 1909-Cases, 5						
Manila	NOV. 14-JBB. 22	10		dootha 0						
	ĺ		1	deaths, 0.						
ortugal:	Dec. 5-Feb. 26	182	1							
Lisbonorto Rico, general	July 1-Dec. 31		12							
ussia:	July 1-Dec. 31		12							
Batoum	Dec. 1-31	5								
Libau	Dec. 6-Feb. 13	28	• • • • • • • • • • • • • • • • • • • •							
Moscow	Nov. 21-Feb. 19	160	53							
Odessa	Nov. 21-Feb. 19	230	60							
Riga	Dec. 5-Feb. 26	43		Oct. 1-Dec. 31, 26 deaths.						
St. Petersburg	Nov. 28-Feb. 19	553	168	Oct. 1-Dec. 51, 20 deaths.						
Warsaw	Oct. 24-Jan. 8	330	150							
am:	Oct. 24-Jan. 8		150							
	Nov. 28-Jan. 22	5	4							
Bangkok	140V. 20-Jan. 22	J	7							
iberia: Vladivostok	Jan. 15-28	2	2							
pain:	Jan. 15-20	2	-							
Almeria	Nov. 1-Dec. 31		10							
Ameria		• • • • • • • •	32							
	Dec 14-Feb 28									
Barcelona	Dec. 14-Feb. 28		1							
Cadiz	Dec. 14-Feb. 28		17							
Cadiz Huelva	Dec. 14-Feb. 28		17							
Cadiz Huelva Madrid	Dec. 14-Feb. 28		17 59							
CadizHuelvaMadridSeville	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31	••••••• ••••••	17 59 10							
Cadiz. Huelva. Madrid. Seville. Tarragona.	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Feb. 20-28		17 59	,						
Cadiz. Huelva. Madrid. Seville. Tarragona. Valencia.	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Feb. 20-28		17 59 10 1	•						
Cadiz. Huelva Madrid. Seville. Tarragona Valencia. Vigo.	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31		17 59 10							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements:	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Feb. 20-26 Jan. 9-Feb. 19 Jan. 23-29	4	17 59 10 1							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo zraits Settlements: Singapore	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Feb. 20-28	4	17 59 10 1	, ,						
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo craits Settlements: Singapore ripoli:	Dec. 14-Feb. 28. Jan. 1-31. Nov. 1-Dec. 31. Dec. 1-Jan. 31. Dec. 1-Jan. 31. Feb. 20-26. Jan. 9-Feb. 19. Jan. 23-29. Jan. 22-Feb. 5.	4	17 59 10 1							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore iri	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Feb. 20-26 Jan. 9-Feb. 19 Jan. 23-29	4	17 59 10 1							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore ripoli: Tripoli	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Feb. 20-26 Jan. 9-Feb. 19 Jan. 22-Feb. 5 Nov. 14-Dec. 25	4 242	17 59 10 1 1 3 24							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore ripoli: Tripoli urkey: Constantinople	Dec. 14-Feb. 28. Jan. 1-31. Nov. 1-Dec. 31. Dec. 1-Jan. 31. Dec. 1-Jan. 31. Feb. 20-26. Jan. 9-Feb. 19. Jan. 23-29. Jan. 22-Feb. 5.	4 242	17 59 10 1							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore ripoli: Tripoli urkey: Constantinople	Dec. 14-Feb. 28 Jan. 1-31 Nov. 1-Dec. 31 Dec. 1-Jan. 31 Dec. 1-Jan. 31 Feb. 20-26 Jan. 9-Feb. 19 Jan. 23-29 Jan. 22-Feb. 5 Nov. 14-Dec. 25 Jan. 2-Feb. 6	242	17 59 10 1 1 3 24	Procent						
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore ripoli: Tripoli urkey: Constantinople. urkey in Asia: Bagdad	Dec. 14-Feb. 28. Jan. 1-31. Nov. 1-Dec. 31. Dec. 1-Jan. 31. Dec. 1-Jan. 31. Feb. 20-26. Jan. 9-Feb. 19. Jan. 22-Feb. 5. Nov. 14-Dec. 25. Jan. 2-Feb. 6. Nov. 21-Jan. 31.	242	17 59 10 1 1 3 24 2	. · · · · · · · · · · · · · · · · · · ·						
Cadiz. Huelva Madrid. Seville. Tarragona Valencia. Vigo. traits Settlements: Singapore: ripoli: Tripoli. urkey: Constantinople. urkey in Asia: Bagdad. Salonica.	Dec. 14-Feb. 28. Jan. 1-31	242	17 59 10 1 1 3 24 2							
Cadiz Huelva Madrid Seville Tarragona Valencia Vigo traits Settlements: Singapore ripoli: Tripoli urkey: Constantinople. urkey in Asia: Bagdad Salonica Smyrna	Dec. 14-Feb. 28. Jan. 1-31. Nov. 1-Dec. 31. Dec. 1-Jan. 31. Dec. 1-Jan. 31. Feb. 20-26. Jan. 9-Feb. 19. Jan. 22-Feb. 5. Nov. 14-Dec. 25. Jan. 2-Feb. 6. Nov. 21-Jan. 31.	242	17 59 10 1 1 3 24 2	Present.						
Cadiz. Huelva Madrid. Seville. Tarragona Valencia. Vigo. traits Settlements: Singapore: ripoli: Tripoli. urkey: Constantinople. urkey in Asia: Bagdad. Salonica.	Dec. 14-Feb. 28. Jan. 1-31	242	17 59 10 1 1 3 24 2	Present.						

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

allian and a sea a secretarion to the				Deaths from—														
Cities.	Week ended—		population.	Estimated population.	Estimated population.	Estimated population.	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	Mar. 6	185, 703 40, 000	49								1	2		1				
Aguascalientes	Mar. 12 Feb. 26	161,712	58 43	3			 		2		··i·	2		3				
A mov	Jan. 22 Feb. 5	400,000	8	1				i	···i	1								
Do	Feb. 12	PCO 191		.;;				î										
AmsterdamDoAthens	Mar. 5 Mar. 12	568, 131	128 160	15 18								ï	2 4	2 1				
Rahia	Feb. 26 Feb. 4	250, 010 265, 000	75 110	12 17			••••	2 17		••••	••••	3						
Do	Feb. 11 Mar. 7	 .	109 360	11 27	1			12 1				4	5					
Barranquilla	Mar. 5	591, 272 40, 000 133, 000	17	1						2								
BaselBatavia	do Feb. 12	133,000 217,630	32 5	10		••••		••••	i		••••	••••	• • • •	1				
Batavia Bradford Belfast	Mar. 5 do	295, 865 391, 167	5 82 165	5 32						1		2	2					
	do	80,000										1						
BergenBirminghamBombay	do Mar. 12	87,749 558,336	25 157	2			• • • •			1	··i·	2 2		1 12				
Bombay	Feb. 22 Mar. 5	977, 822 235, 648	650 59	44 13	88	2		34		1			4	• • • •				
Bristol	Mar. 12	382, 550	87	12						1		2	2					
Bristol	Mar. 5 do	720,030 807,200	187	15		!				2	•••	1	5	<u>ż</u>				
Cairo	Mar. 4 Feb. 5	677,663 1,000,000	358 150	36 25		• • • • '		3	2	5		6	5					
Do	Feb. 12		160	20				3		3		5						
Do Chihuahua Christiana	Feb. 19 Mar. 13	37,000	125 23	20 2				3	• • • • •	3		3		···i				
Christiana Colombo	Mar. 12 Feb. 12	236,000 187,564	56 108	13 16	i	• • • •				<u>.</u> .		1	1	• • • •				
Do	Feb. 19		119	16	;					6			1					
Dalny	Feb. 26 Feb. 19	455,000 37,819 170,206	145 43	11 2					::::	• • • •	3	2	1	2				
Copenhagen	Mar. 12 Mar. 5	170.206 360,276	53 83	4 7					• • • • •		1	1 1	2	2				
Georgetown	Feb. 12	56,000	69	3		•				1		i						
Georgetown. Ghent. Gibraltar. Glasgow.	Mar. 5 Mar. 13	165, 475 26, 830	71 15	9		·-··		' _,		· · · · ·	1	··i		1				
GlasgowGuadalajara	Mar. 11 do	872, 021 125, 000	299 109			••••		1	i	3	3	9	28	i				
Halifax Hamburg	Mar. 19	50,000	20	.2								3		••••				
Havre	Mar. 5	895, 804 132, 430	238 62	24 13		• • • •			:::	1	4	8	2	1				
Hongkong	Feb. 19 Mar. 18	336, 488 280, 006	96					2		1 2	··i·	;-	2	<u>.</u>				
Huli Karachi Kingston	Feb. 19	130,000	1 40		78													
Leeds	Mar. 5 Mar. 12	48, 504 490, 985	119	5								i		i				
Leipzig Leith	Mar. 5	590, 329 86, 767	133 31	16 1					• • • •	1	1 1	1	6					
Liago	do Mar. 12	176, 893 767, 706	42 248	6							4	i	1	ii				
Liverpool. London. Do.	Mar. 5	7,537,196	1,883	15						6	7	15	5 45	57				
Lubeck	Mar. 12 Mar. 5	97, 500	1,784 30	58 5	::::			::::		4	9	12	20					
Lyons	Feb. 19 Feb. 26	500,000	221 190	43 36						1	3	2 5	î	1 2				
Madras	Feb. 18	550,000 631,533	376					1					6					
Manchester	Mar. 5 Mar. 12	1	218 230	27	!. 				:::	!	1 3	2	1	6 5				
Do	Mar. 19 Feb. 26	389, 837 576, 000 593, 729	168 208	23 35						3	4	3	1	ĭ				
Naples.	Mar. 5	593, 729	288 . 78		!.			4				í		····i				
Do	do Mar. 12	281,584	78 88 76 .	8 14				1		1	1	··i·						
NottinghamOdessa	Mar. 5 Feb. 26	260,000 520,000	76 1,855	24	'			5		2 .	2 4	6	2					
Do	Mar. 5	.,20,000	218	21				9	1	2	7 (6	2	· · · · ·				

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.			Total deaths from all causes.	Deaths from—										
	Week ended	Estimated population.		Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Palermo	Feb. 12	335,000	192	8							1	6		
Do	Feb. 19 Feb. 26	• • • • • • • • • • • • • • • • • • •	218	3 7					··· i		1 2	1	11	
Paris.		2,776,394	175 958	207					1		Z	1 9	3 14	
Do	Mar. 5	2,110,004	970	210				6		2 5	4	9	24	ì
Port of Spain		60,000	42	- š						ĭ				l
Rio de Janeiro		850,000	176	l						3			4	ĺ
Rotterdam	Mar. 12	419, 100	118								1		ļ	ļ
St. Petersburg	Feb. 26	1,678,000	935	132				14	1.	24	21	24	57	1
Salaverry	Mar. 9	1,800								1			1	i
anta Cruz de Teneriffe.		46,000	31	4							1	3	1	
ingapore	Feb. 12	271,060	225	25				2		1				
outh Shields		117,737	30	8		• • • •			• • • •	• • • •			:-	1
tettintockholm	Mar. 5 Feb. 19	239,000 339,582	86	6 28			• • • •	• • • •	• • • •	• • • •	4	2	1	¦
mvrna		339, 382 400, 000	110 67	13			• • • •	••••		3		i	6	
Do	Jan. 14	400,000	99	14		••••		1		3		1	• • • •	
Do	Jan. 21		103	16	;		••••			i	• • • • •	2	• • • •	!
Do	Jan. 28		71	13		;		i i	••••	2	••••	ĩ		
Do	Feb. 4		79	9						2			• • • •	
Do	Feb. 11		85	12								1		
Do	Feb. 18		108	17				1		2				
underland	Mar. 5	160, 796	59	6						'		2		
Do	Mar. 12		56	6						• • • •			1	
urin	Feb. 24,	391, 968	143	18							1	1	1	• • •
alencia	Mar. 5	240,000	135	7	• • • •						:-	2		
ladivostok	Feb. 5	85,004	23	1				ا٠::-ا		1	2		•••	
Varsaw	Jan. 15	764,054	289	57	••••	• • • • •	¦	21 19	;-!	4	7 2		6	. :
	Jan. 22 Mar. 12	66,750	283	52	••••			19	1	1	Z	3	2	
Vest Hartlepool Vinnipeg	Mar. 12	122,000	13 25	•••	}				;	• • • • ;		1		• • •
okohama	Feb. 28	392, 870	40	4		;						i		• • • •

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

ALGERIA — Algiers.—Month of February, 1910.—Population, 157,000. Total number of deaths from all causes, 313, including typhus fever 9, typhoid fever 1, tuberculosis 44.

Australia—Sydney.—Month of December, 1909. Population, 592,100. Total number of deaths from all causes, 565, including typhoid fever 6, measles 1, diphtheria 1, tuberculosis 64.

Brazil—Ceara.—Month of January, 1910. Population, 40,790. Total number of deaths from all causes, 157, including typhoid fever 8, tuberculosis 12.

CANADA—Vancouver.—Month of February, 1910. Population, 78,900. Total number of deaths from all causes, 70, including typhoid fever 2, tuberculosis 10.

FRANCE—Calais.—Month of January, 1910. Population, 75,000. Total number of deaths from all causes, 115, including typhoid fever 1, scarlet fever 1, diphtheria 2, tuberculosis 29.

Month of February, 1910. Total number of deaths from all causes, 90, including typhoid fever 1, tuberculosis 20.

Nantes.—Month of February, 1910. Population 122,800. Total number of deaths from all causes, 295, including typhoid fever 2, tuberculosis 75.

GREAT BRITAIN.—Week ended February 26, 1910.

England and Wales.—The deaths registered in 76 great towns correspond to an annual rate of 14.7 per 1,000 of the aggregate population which is estimated at 16,713,617.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 22.8 of the aggregate population, which is estimated at 1,151,790. The lowest rate was recorded in Galway, viz, 3.9 and the highest in Newry, viz, 46.2 per 1,000 of the population.

Scotland.—The deaths registered in 8 principal towns having an aggregate estimated population of 1,864,194 correspond to an annual rate of 16.2 per 1,000. The lowest rate was recorded in Paisley, viz, 12.8, and the highest in Greenock, viz, 24.1 per 1,000. The total number of deaths from all causes was 588, including typhoid fever 4, scarlet fever 8, measles 40, diphtheria 8, whooping cough 8.

INDIA—Rangoon.—Month of January, 1910. Population, 295,803. Total number of deaths from all causes 809, including typhoid fever 1, smallpox 28, tuberculosis 27, plague 12.

ITALY—Milan.—Period, February 16 to 28, 1910. Population, 900,000. Total number of deaths from all causes 65, including typhoid fever 1, scarlet fever 1, diphtheria 1, tuberculosis 60.

Malta.—Two weeks ended February 26, 1910. Population, 212,888. Total number of deaths from all causes 102, including typhoid fever 7, tuberculosis 5.

NEW ZEALAND—Auckland.—Month of December, 1909. Population, 93,544. Total number of deaths from all causes 74, including typhoid fever 1, diphtheria 2, tuberculosis 7.

Christchurch.—Month of December, 1909. Population, 76,709. Total number of deaths from all causes 50, including tuberculosis 3.

Dunedin.—Month of December, 1909. Population, 61,279. Total number of deaths from all causes 44, including tuberculosis, 2.

Wellington.—Month of December, 1909. Population, 73,367. Total number of deaths 73, including diphtheria 1, tuberculosis 8.

Porto Rico.—Month of December, 1909. Population, 1,053,963. Total number of deaths from all causes 3,022, including typhoid fever 15, measles 28, diphtheria 3, tuberculosis 217.

RUSSIA—Riga.—Month of December, 1909. Population, 355,000. Total number of deaths from all causes 569, including typhus fever 12, typhoid fever 9, smallpox 9, measles 1, scarlet fever 34, diphtheria 11.

429

SOUTH EAST AFRICA—Lourenço Marquez.—Month of January, 1910. Population, 10,000. Total number of deaths from all causes 31, including tuberculosis 9.

By authority of the Secretary of the Treasury:

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