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PULMONARY HEMORRHAGE IN THE TUBERCULOUS AT HIGH ALTITUDE (6,200 FEET); REPORT OF 56 DEATHS; FREQUENCY OF ASSOCIATED HEART DISEASE.

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

A review of the clinical records of the Marine Hospital Sanatorium at Fort Stanton, N. Mex., shows that since it was opened, in 1899, 56 deaths from pulmonary hemorrhage have occurred there. All of the subjects were under treatment for tuberculosis of the lungs, and together they constitute a little more than 10 per cent of the total mortality from that disease. The histories of all cases, where the hemorrhage was not immediately fatal, were passed upon by three medical officers before being admitted to this series, the facts in each case being considered sufficient to place hemorrhage in a causal relation to death. Instances where hemorrhage may have sown a new crop of tubercles throughout the lung, death occurring several weeks later from a rapid extension of disease, have not been included, nor has death been ascribed to hemorrhage in any instance simply because it was a sequence of that accident. Two fatalities from ruptured aortic aneurism occurring in tuberculous patients are also omitted.

Age.

`	from tub	deaths perculosis ings.	pulmon	as from ary hem- nage.
	Number.	Per cent.	Number.	Per cent.
Number of patients less than 20 years old.  Number of patients between 20 and 30 years old.  Number of patients between 30 and 40 years old.  Number of patients between 40 and 50 years old.  Number of patients between 50 and 60 years old.  Number of patients more than 60 years old.	8 180 169 116 39	$   \begin{array}{r}     1\frac{1}{2} \\     35 \\     32 \\     22 \\     7\frac{1}{2} \\     2   \end{array} $	2 19 20 9 4 2	3½ 34 36 16 7 3½
	524	100	56	100

All patients at Fort Stanton are adult males, the great majority between the ages of 20 and 50 years. Referring to the table above it will be seen that variation in the frequency of deaths from hemorrhage corresponds fairly closely with that of the total number of deaths from tuberculosis of the lungs in each age period.

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#### Syphilis and alcohol.

	Syphiliti	e history.	Excessiv	ely alco- ic.
	Number.	Per cent.	Number.	Per cent.
Number of patients admitted (1,754).  Hemorrhagic cases studied (453).  Total number of deaths (527).  Number of deaths from hemorrhage (56).	71 79	· 14 16 15 21	491 133 158 19	28 29 30 34

Fourteen per cent of all patients gave a history of syphilis, although the disease rarely appears in active form here. The preliminary observation to which they are subjected in the local marine-hospitals before being transferred is helpful in eliminating nontuberculous complications. Fifteen per cent of all those who died and 16 per cent of all those who had pulmonary hemorrhages were syphilitic, from which we may conclude that a previous infection with syphilis seems not to have much bearing on either the incidence of hemorrhage or the death rate from tuberculosis. Twenty-one per cent of those dying from pulmonary hemorrhage were syphilitic. A reference to the table shows about the same variation in those entering with a history of excessive alcoholism. As far as they go, the figures would indicate that damage to heart and vessels resulting from previous disease and excess is contributory to the frequency of death from pulmonary hemorrhage.

It is probable that alcoholism would show a more pronounced influence, at least on the total number of deaths, if it were not for the fact that a lapse to alcoholism while under treatment usually results in the discharge of the patient as a disciplinary measure. Inebriates, therefore, tend to eliminate themselves more frequently than do the temperate, before either their disease is arrested or death occurs. It may be mentioned that it is the policy at this sanatorium to secure either an arrest of disease or else, in the interest of the public

health, to encourage the patient to remain here until death.

#### COLOR.

The negro seems to be slightly less liable to hemorrhage than the white. A previous study of our hemorrhagic cases a seemed to show that a chronic type of pulmonary tuberculosis is more common among hemorrhagic cases than among nonhemorrhagics. Those in whom the disease runs an acute course, as the very young and the negro, are less apt to have hemorrhages, because, instead of living for many years with pulmonary vessels exposed in cavities to tuberculous, pyogenic, atheromatous, or other destructive process, they die of their disease quickly, with opportunity for hemorrhage in inverse proportion to the rapidity of the tuberculous invasion. About 35 per cent of our colored patients have hemoptysis, either before or after beginning sanatorium life, against 38 per cent of the white men. total mortality has been 50 per cent among the colored and 28 per cent among the white. Five colored patients have died from pulmonary hemorrhage, a number representing 6 per cent of their mor-

<sup>&</sup>lt;sup>a</sup> Hemoptysis in pulmonary tuberculosis.—Transactions of the fourth annual meeting of the National Association for the Study and Prevention of Tuberculosis.

tality. Fifty-one whites died from hemorrhage, 11 per cent of their total mortality.

Relation of size of hemorrhage to death.

	Hemor- rhage im- mediately fatal.	Hemor- rhage not immedi- ately fatal.
Large hemorrhage. Moderate hemorrhage. Small hemorrhage. Amount unknown.	17 11 1 7	11 2 3 4
Total.	36	20

Hemorrhages of over 500 cubic centimeters have been classed as large and those less than 150 cubic centimeters as small. Forty-one of the fatal hemorrhages were known to be of considerable amount, while small hemorrhages were responsible for only 4 deaths, 3 from broncho-pneumonia, and 1 apparently from shock, the man being greatly frightened and losing consciousness at almost the first show of blood. In this case autopsy was omitted, and it is quite possible that inundation of the bronchi during syncope occurred and that the real cause of death was suffocation.

In 36 instances hemorrhage was immediately fatal. Of these the majority died of suffocation. Death usually occurred in less than ten minutes, and in only one of the hemorrhages classed as immediately fatal, where all the circumstances are known, was life prolonged thirty minutes. Two cases were found dead in bed, suffocation from insufflated blood being the apparent cause of death in each case.

Next to suffocation, cardiac failure was probably the most frequent While it is true, that, occasionally, a large cause of sudden death. amount of blood from the lungs may flow from the mouth of a composed patient without violent cough, the great majority of pulmonary hemorrhages entails tremendous exertions on the part of the subject to free his lungs of blood and preserve his life from suffocation. labor, and a certain amount of asphyxia, especially in a panic-stricken individual, must throw considerable extra strain on the heart, disease of which, as will be noted below, was frequent in this series. If it shall appear that the results of pulmonary hemorrhage in elevated regions are more serious than those occurring at sea level, it is probable that the explanation will be found in the incapacity of the heart to withstand sudden exertion, and also in the higher mortality from pneumonia at considerable altitudes, two causes which are of course, dependent upon the same thing.

#### Circumstances.

	Hemorr- hage im- mediately fatal.	Hemorr- hage not immedi- ately fatal.
Patient in bed. Patient walking about grounds. Patient in quarters, not in bed. Circumstances unknown	29 3 2 2	5 3 3 9
Total	36	20

Thirty-four fatal hemorrhages occurred while the subjects were in bed. Of these, 4 took place in the daytime, 9 at unrecorded hours, and 21 between 9 p. m. and 6.45 a. m. It is not unreasonable to suppose that a man surprised during sleep by a hemorrhage is more apt to succumb to suffocation than one in possession of all his faculties.

Eleven of those dying suddenly in bed were under treatment at the time for hemorrhage occurring a few days previously, but the hemorrhage which sent these same men to the hospital ward took place in bed in at least 6 instances. Of 13 hemorrhages immediately fatal in ambulant, afebrile patients, 8 occurred while the man was in bed for the night, while of 19 hospital patients dying suddenly, including the 11 mentioned above, 15 were in bed at the time.

In no case, where the facts are known, either among ambulant or bed patients, or even where hemorrhage had been of recent occurrence, was sudden exertion, straining at stool, bathing, etc., the cause of the fatal hemorrhage. One man, however, who was found dead in bed is known to have been intoxicated the day before, and another who died suddenly from hemorrhage was engaged in a heated argument at the time of the accident and was, moreover, sus-

pected of having imbibed smuggled whisky.

In 21 cases not immediately fatal, 16 died of broncho-pneumonia, 1 of lobar pneumonia, and 1 of cardiac failure thirteen hours after a very severe hemorrhage. The last case was not autopsied. The pneumonia cases died, 1 on the second day, 5 on the third, 5 on the fourth, and 1 each on the fifth, eighth, fourteenth, sixteenth, and seventeenth days after hemorrhage. The two remaining cases died four and a half hours and seven hours, respectively, after the last of a series of hemorrhages which had continued in one case for seventeen days and in the other for two days immediately previous. Both were autopsied, and, in the absence of any grossly apparent cause, the deaths may be properly ascribed to exhaustion. Neither in these two nor in those others where hemorrhage was immediately fatal, while the subject was in hospital recovering from the effects of previous hemorrhage, was there evidence of broncho-pneumonia. This experience supports that recorded by at least one observer (Bonney), that recurrence of hemorrhage is rare after bronchopneumonia has developed.

Duration of treatment compared with that of other fatal cases.

	Total deaths from pulmonary tuberculosis.		D	eaths from	hemorrhage.			
	Number.	Per cent.	Number.	Per cent.	Previous hemor- rhage.	No pre- vious hemor- rhage.		
Deaths within one month after admission.  Deaths occurring from one to six months	84	16	9	16	. 7	2		
after admission.  Deaths occurring from six to twelve	203	39	14	25	8	6		
months after admission	93	18	11	20	7	*		
after admission	87	16	10	18	7	3		
Deaths occurring more than two years after admission	57	11	12	21	8	4		
Total	524	100	56	100				

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The influence of chronicity on hemoptysis, referred to under the consideration of color, is again evident here. The percentage of deaths from hemorrhage as compared with that from other causes shows a steady rate of increase after six months' stay. If the previous duration of disease could be fixed with any degree of accuracy the total duration of the disease would be a more proper basis for calculation in this connection; but, as is well known, the date of onset is extremely uncertain. The above table would seem to indicate that the institution which retains individual cases longest will have the largest percentage of deaths from hemorrhage.

The earliest death from hemorrhage was one immediately fatal, occurring on the seventh day after arrival, in a patient with a history of pulmonary hemorrhage previous to admission. Of the 9 dying within a month after arrival, 7 had a previous history of bleeding, and 2 died of their first hemorrhage. Five of these cases were immediately fatal and 4 were not. Of the 12 who had been here over two years, 4 died of their first hemorrhage. Eight of these deaths were

immediate and 4 succumbed to broncho-pneumonia.

Of the 19 dying of their first hemorrhage, 14 succumbed immediately, 7 had been at Fort Stanton over one year, and 3 more than

three and a half years.

Epidemicity.—Occasionally a number of fatal hemorrhages have occurred within a few days. For instance, there were 14 deaths from that cause in the year 1907, 2 within two days in January, 4 within seventeen days in April, 3 within twenty-one days in November. The other 4 took place one each in as many other months. The apparent epidemic nature of hemorrhage from the lungs has been frequently noted and various efforts made to explain it. An occasional grouping of cases is surely no more remarkable than an even distribution would be and is a phenomenon by no means confined to contagious diseases.

Stage of disease.—All of the 56 cases were far advanced, according to the nomenclature adopted by the National Association. Forty-three were so classified on admission and the remaining 13 came as moderately advanced cases, but had progressed to the third stage before death. Excavation, in most cases extensive, was found in each of the 43 autopsied, and cavities had been demonstrated

clinically in all the others.

Condition at time of fatal hemorrhage.—In 46 instances the disease was known to be progressing, while 10 patients were supposed to be arrested cases. Nine of the latter were autopsied and while in 6 of these only slight evidence of active tuberculosis was found and while there was ample evidence of healing, none of them could properly be called arrested in the sense that all activity had ceased in all parts of the lungs. Each had a few small, thick-walled cavities, considerable scar tissue, and abundant healthy lung remaining, but careful search revealed in all either a few scattered tubercules of recent deposit or some minute area of softening. But the fact that 6 such cases succumbed to hemorrhage would indicate that that event is sometimes an accident, irremediable, unavoidable, and not to be foretold.

The ruptured vessel responsible for the fatal issue was found only nine times in 43 autopsies. In each instance the vessel was partially exposed in a cavity. Six times the rupture occurred in an aneuris-

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mal dilatation, presumably of a branch of the pulmonary artery; three times no dilatation was noted. The occurrence of small, unruptured aneurisms projecting into cavities is not an unusual finding in our

autopsies.

In an effort to locate the site of hemorrhage, tracheal injections of colored gelatine were made in a number of cases. In one the injected material was found at autopsy filling the arch of the aorta, but not present in either side of the heart, indicating, possibly, hemorrhage from a bronchial artery, the location of which, however, could not be determined.

Cardiac disease.—The condition of the heart was described forty-two times in 43 autopsies. Valvular disease of the heart with incompetency of the mitral valve was found four times, once associated with aortic stenosis and once with an acute pericarditis and effusion; all four were immediately fatal cases. Aortic incompetency in a small heart showing brown atrophy and with adhesions of the pericardial sack to the right pleura was found once; fatty degeneration of the myocardium once; dilatation of the right auricle in a heart weighing 545 G. once—all in cases dying immediately. Disease of the mitral valves not resulting in incompetency occurred five times, the hearts weighing 385 G., 450 G., 385 G., 250 G., and 320 G., respectively; disease of the aortic valve not resulting in incompetency was found once in a heart of 380 G. All these were also cases where the hemorrhage proved immediately fatal.

Tricuspid incompetency occurred once and dilatation of the right ventricle twice (all in different cases), one of the last in connection with excrescences on the mitral valve and all in cases dying of bronchopneumonia. Another case with greatly enlarged heart (735 G.) and extensive pericardial adhesions also succumbed to this sequel to

hemorrhage.

Thus 17 of 42 autopsied are known to have had some serious cardiac disease; 13 of these died suddenly. The preponderance of left-sided

cardiac lesions in the cases immediately fatal is noticeable.

Besides those mentioned above, three hearts showed small pericardial effusions of 100, 150, and 350 cubic centimeters, respectively; two enlarged hearts (360 G. and 480 G.) had extensive pericardial adhesions and another heart which produced a mitral systolic murmur in a subject who subsequently died suddenly from hemorrhage showed no disease except a few atheromatous patches on the mitral leaflets, but was associated with a small pleural effusion and an acute pleuritis with plastic exudate. Of the remaining hearts that were examined, 7 were hypertrophied, ranging in weight from 350 G. to 450 G. Thus only 12 hearts, 3 of which were not weighed, and so, perhaps, were not carefully examined, seemed normal out of the 42.

# COMPARATIVE FREQUENCY OF HEMOPTYSIS AT HIGH AND LOW ALTITUDES.

It has been scientifically established that blood pressure is lowered with increase of altitude, and while elevated places have never been considered unsuitable for the treatment of cases of pulmonary tuberculosis showing hemorrhagic tendencies, a note as to the comparative frequency of hemorrhages from the lung at this sanatorium may

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properly be added here. Our altitude is 6,231 feet; most patients

arrive from places at or near sea level.

Of the first 453 hemorrhagic cases admitted, 248 had hemorrhages before but not after admission; 106 had hemorrhages both before and after admission; 99 had hemorrhages after but not before admission.

Such data are obviously not of much value without knowing how

long the patients were under observation.

Of 248 having hemorrhages before but not after admission, 31 remained over two years, 46 remained from one to two years, 45 remained from six months to one year, 61 remained from three to

six months, and 65 remained less than three months.

This still is not conclusive, because the duration of the disease before entering was probably greater in most cases than the time patients remained under treatment here, with consequent greater opportunity for hemorrhage before than after admission. But taking into account the well-known frequency of recurrence in pulmonary hemorrhage, the belief that elevated regions are favorable for the treatment of ordinary hemorrhagic cases of tuberculosis of the lungs would seem fairly well supported.

#### SUMMARY.

1. Hemorrhage from the lungs is responsible for about 10 per cent of the total mortality from pulmonary tuberculosis at this sanatorium.

2. Syphilis and chronic alcoholism increase the liability to fatal

hemorrhage.

3. Small pulmonary hemorrhages are rarely suddenly fatal, but

may cause a dangerous insufflation pneumonia.

4. Recurrence of hemorrhage rarely or never occurs after bronchopneumonia develops.

5. No age period of adult manhood seems especially predisposed

to fatal pulmonary hemorrhage.

- 6. Exciting cause of fatal hemorrhage was noticeably absent; the majority of subjects were in bed at the time and a large number presumably asleep.
- 7. Acute types of pulmonary tuberculosis are least liable to this accident; negroes showed a lower mortality from hemorrhage than whites.
- 8. Hemorrhage has not been common immediately after arrival from sea level; the increased mortality from hemorrhage after prolonged residence at high altitude may properly be ascribed to the chronic type of disease in these individuals.

9. Disease of the heart or embarrassed circulation from any cause predispose to a fatal issue when pulmonary hemorrhage occurs.

10. Pulmonary hemorrhage is not more frequent at high altitude than at sea level but the results are perhaps more often serious, especially in those with impaired circulation.

REPORT OF THE PROCEEDINGS OF THE TENTH INTERNATIONAL CONGRESS OF PHARMACY, BRUSSELS, SEPTEMBER 1-6, 1910.

By Reid Hunt, professor of pharmacology, Hygienic Laboratory, United States
Public Health and Marine-Hospital Service.

The opening session was held in the Palais des Academies September 1. More than 600 delegates, but one-half of whom came from countries other than Belgium, were present. Sixteen foreign governments had formally accepted the invitation to participate in the congress, and 20 were represented by official delegates. Delegates were present from the following American Republics: Argentina, Chilé, Venezuela, Guatemala, San Salvador, Haiti, and the United States.

The work of the congress was outlined at the opening meeting, at which the governor of Brabant, representing the minister of the interior; the president and secretary of the congress; and several of the foreign delegates, made addresses. The speakers emphasized, as the two subjects of greatest international interest: (1) The further unification of the pharmacopæias, with special reference to the adoption of uniform methods of assay of important drugs; and (2) the control of the sale of specialties (proprietary medicines), from the standpoint of public health as well as that of the material interests of the pharmacists. The governor of Brabant, M. Breco, formerly of the ministerial department having control of public health, hygiene, and pharmacy, urged the congress to add to its programme the subject of public hygiene, stating that he did not believe that pharmacists are as well qualified to deal with the problems of this subject as is desirable, and pointing out the possibilities of pharmacists securing for themselves a more privileged position if they will extend their activities beyond the narrower commercial pursuits.

The service of the Belgian Government in connection with the conference of 1902, which resulted in the securing of a greater degree of uniformity in the formulas of heroic medicines in the various pharmacopæias, was the subject of much favorable comment on the part of

several of the foreign delegates.

On the succeeding days the congress met in two sections—scientific and professional. At each of these certain general questions, announced in advance, were discussed. A considerable number of communications, dealing for the most part with subjects of general scientific importance and all of international interest, were also presented. As a result of these discussions a number of resolutions were drawn up and voted upon, first by the sections and secondly by the

entire congress at its concluding session September 6.

The first of the resolutions, presented by the scientific section, related to the unification of the methods for the assay of crude drugs and of galenical preparations and for the determination of physical constants. The great importance of this subject, from the standpoint not only of medicine but also from that of international commerce, was emphasized. The congress requested the Belgian government to call an international conference for the unifying of the methods of analysis of the heroic medicaments; it also expressed the hope that, in the matter of alkaloidal assays, the commission would adopt, as far as possible, gravimetric methods. These conclusions

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and resolutions were based largely upon a paper by Doctor Schamelhout, who treated the subject from the standpoint of a practical pharmacist.

The second resolution related to the international unification of the reagents used in pharmacopæial work. It was pointed out how such a unification would aid in securing uniform analytical results and in the interpretation of the different pharmacopæias.

The third set of resolutions, which were adopted after prolonged and thorough discussion, related to the control of antiseptics, with special reference to the securing of commercial honesty and the safeguarding of the public. The congress expressed the opinion that such preparations should not be placed upon the market until they have been officially examined, both chemically and bacteriologically, and have received the approval of the departments of public health; that their efficiency should be determined and the claims made by the manufacturers be examined; that the amount of their active ingredients and their bactericidal strength should be stated, and that the sale of those claiming to possess therapeutic properties and of those containing poisons, the sale of which is legally restricted, should be limited to pharmacists.

The fourth resolution related to the introduction into the curricula of schools of pharmacy of courses on the analysis of certain physiological and pathological secretions, especially of that of the feces. was pointed out in the discussion that such work properly comes within the province of the pharmacist as a chemist and that it makes

another professional bond between him and the physician.

The fifth resolution related to the preparation of galenicals by pharmacists. The latter were urged to make these preparations

themselves as far as possible.

In addition to the formal reports a number of important scientific communications were made, some of which led to the adoption of further resolutions. Thus, as the result of a communication by Möller, it was resolved to advocate the adoption as an international standard of colors the standard of Klinchsieck and Valette. A paper by Hercod led to the adoption of a resolution in favor of the appointment of an international commission to establish a method for the standardization of pharmacopæial preparations of pepsin and for establishing a standard strength for this product.

A resolution was also passed expressing the opinion that it is desirable for the committees on pharmacopæial revision to publish each year supplements calling attention to the real scientific advances

made.

Among the notable contributions made in the scientific section the following may be mentioned: Perrot, on the preservation of important plant drugs by the destruction of the intracellular enzymes; Leger, on the constitution of the aloins; Bourquelot, on glucosides;

Goris, on plants containing caffeine.

The first of the resolutions presented by the section on professional interests related to the control of the sale of specialities. The basis for the discussion of the subject, which was prolonged and animated, was the very comprehensive report prepared by Breugelmans, Daminet, and Staes in which was reviewed the legislation on the subject in the leading countries of the world. Although the difficulties and complications which have arisen from the great increase in the number October 7, 1910 1408

of such preparations and the problem resulting from the competition of manufacturers were recognized, the discussion was limited largely to the phases which more directly concern the commercial side of pharmacy and especially to the subject of price legislation. It was recognized that this is a question which will have to be solved by each country, but certain general principles were proposed, and the congress expressed the opinion that the sale of medical specialties should, in all countries, be reserved to the pharmacists.

The second resolution presented by the section on professional interests related to the formation of an international pharmaceutical federation having for its purpose the protection of pharmacy as a profession and as an applied science. It was decided to appoint a commission to prepare a constitution for such a federation and to accept an invitation from the government of Holland to make The

Hague its headquarters.

The third resolution related to the representation on pharmacopoial commissions of practical pharmacy, and the fourth to the limita-

tion of the number of pharmacopæias.

It was also resolved to make the question of patents and trade marks one of the subjects for discussion at the next international

congress of pharmacy.

In addition to the scientific programme, visits were made to the exposition, where the chemical and pharmaceutical exhibits of different countries were explained, and to dairies devoted to the production of milk for infants.

# UNITED STATES.

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

Management Andrews Control of the Co

#### PLAGUE-PREVENTION WORK.

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Surgeon Blue reports:

#### INFECTED GROUND SQUIRREL.

The finding of 1 plague-infected ground squirrel was reported during the week ended September 17, 1910. It was found September 10 in Contra Costa County, at Curran Ranch on Wildcat Creek, one-half mile northeast of Alameda County line.

#### ANIMALS EXAMINED FOR PLAGUE INFECTION.

During the week ended September 17, 1910, there were examined at the federal laboratory at San Francisco and the branch laboratories at Oakland and Los Angeles, Cal., animals as follows: Squirrels 2,380, rabbits 13, gophers 7, wood rats 1, rats 1,983. The rats were identified as follows: Mus norvegicus 1,601, Mus rattus 146, Mus alexandrinus 169, Mus musculus 67.

The total number of animals examined was 4,384. One plague-

infected squirrel was found.

#### DISTRIBUTION OF POISON.

In connection with the making of a squirrel-free zone around the cities on San Francisco Bay, 325 acres of land in Alameda County were covered with poison during the week ended September 17, 1910.

#### SEATTLE, WASH.

Assistant Surgeon Chapin reports:

During the week ended September 17, 1910, 1,103 rats were collected. Of these, 965 were necropsied and examined for plague infection. No plague-infected rats were found.

#### Record of Plague Infection.

Place.	C888 0	e of last of human ague.	Case	e of last of rodent lague.	Total number of rodents found infected since May, 1907
California;					
San Francisco	Jan.	30, 1908	Oct.	23, 1908	398 rats.
Oakland	Oct.	26, 1909	Dec.	1,1908	126 rats.
BerkeleyLos Angeles		28, 1907		recorded.	
Counties	Aug.	11, 1908	Aug.	21, 1908	1 squirrel.
Alameda (exclusive of the city of Oakland)	Sept.	26, 1909	May	30, 1910	82 squirrels, 1
Combra Conta	T	01 1000	a	10 1010	wood rat.
Contra Costa	July	21, 1908 ecorded.	Sept. June	10, 1910	
Monterey	Mone i	ecoraea.		6, 1910	4 squirrels.
San Benito	June			11, 1910	
San Joaquin	None r	ecorded.	Aug.	19, 1910	
San Luis Obispo	do		Jan.	29, 1910	
Santa Ciara	Sept.	5, 1910		22, 1910	
Santa Cruz	Noner	ecorded.	May	17, 1910	3 squirrels.
StanislausVashington:	do.	•••••	May	21, 1910	5 squirrels.
Seattle	Oct	30, 1907	Feb.	8, 1910	22 rats.

#### Rats Collected and Examined for Plague Infection.

Place.	Week ended—	Found dead.	Total collected.	Exam- ined.	Found. infected.
California:  Berkeley Oakland San Francisco Washington: Seattle	Sept. 17 do	26 182	297 5690 61,968	97 501 1,402	
Total		208	3,858	2,965	

a Identified, Mus norvegicus 80, Mus musculus 17. b Identified, Mus norvegicus 594, Mus ratius 5, Mus musculus 89, Mus alexandrinus 2. c Identified, Mus norvegicus 1 329, Mus ratius 141, Mus musculus 331, Mus alexandrinus 167.

#### Squirrels Collected and Examined for Plague Infection.

Place.	Week ended—	Trapped and shot.	Found dead.	Exam- ined.	Found infected
difornia:					
Cities—					1
San Francisco	. Sept. 17	13	1	13	ł
Counties-				10	
Alameda	do	16	4	20	1
Calaveras	do	18	-	18	
Contra Costa	do	94	1	95	
Fresno		281	-	276	l
Los Angeles	do	63		63	1
Merced	do	104		104	l
Monterey	do	261		257	
Sacramento	do	84		34	
San Joaquin	do	322		315	l. <b></b> .
San Luis Obispo	do	981	· · · · · · i	947	
San Mateo	de	42		42	
Santa Clara	do	14		14	
Solano	do	163	1	164	
Tuolumne	do	18		18	
Total		2, 424	7	2,380	

#### Other Animals Collected and Examined.

Place.	Week ended—	Animals collected.	Exam- ined.	Found infected.
California: Cities— San Francisco. Counties— Merced. San Luis Obispo. San Mateo. Sant Clara.  Total.	do do	4 rabbits	7 3 1 6 4	

# SMALLPOX IN THE UNITED STATES.

#### Reports Received During Week Ended October 7, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Louisiana:	·			The second secon
New Orleans	Sept. 18-24	2		
Montana:	-		1	
Dawson County	Aug. 1-31	2		
Rosebud County		2		
Silverbow County	do	1		
	do	3		
Missouri:				
Kansas City	Aug. 6–20	4		
Utah:		_	!	
Salt Lake County	Aug. 1-31	3		
Utah County Wasatch County	do	7		•
Wasatch County	do	1		

#### Reports Received from June 25 to September 30, 1910.

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

Place.	Date.	Cases.	Deaths.	Remarks.
labama:				
Birmingham	June 12-Aug. 6			
Mobile	June 12-Sept. 10	14		
Montgomery	June 12-25	6	•••••	
Total for State		31		
rkansas:		_		
Fort Smith	June 19–25	1		
alifornia, general	May 1-June 30	27		
Amador County		2 2		
Hamlet County	Aug. 1-31	2		
Los Angeles County	July 1-31	1		
Sacramento County San Francisco County	Aug. 1-31	2		
San Joaquin County	July 1-Aug. 31	4		
Santa Clara County		2		
			<b></b>	
Total for State		41		
olorado:	i			
Alamosa County	Apr. 1-30		1	
Las Animas County			2	
Logan County			1	
Montrose County Adams County	July 1-31	3	1	
Archuleta County	June 1-Aug. 31	17		
Chaffee County	July 1-Aug. 31	3		
Clear Creek County	Aug. 1-31	1		

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

# Reports Received from June 25 to September 80, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Colorado—Continued.				
Coneios County	. June 1-Aug. 31	. 4		•
Delta County	. June 1-30	. 2		•
Delta County Denver County El Paso County	June 1-30	. 35		•
Huerfone County	July 1-Aug. 31	. 3		
Huerfano County Kit Carson County	June 1-Aug. 31	. 15		
Larimer County		i		i
Las Animas County	June 1-30. June 1-30. June 1-30. June 1-30. June 1-30.	7		
Logan County	June 1-30	. i		
Mesa County	June 1-30	. 1		
Montrose County Otero County	. June 1–30	. 5		
Otero County	June 1-30	. 4		
Prowers County				•
Rio Grande County	July 1-31	1 4		,1 •
Saguache County	June 1-July 31	13		1
Saguache County	June 1-30 June 1-July 31 June 1-30	i	1	1
Teller County	June 1-July 31	. 2		
Teller County	June 1-30	. 5		
Total for State		144	6	
District of Columbia	July 3-Sept. 10	14		
		ļ		
Total for District		14		
lorida:	1			
Brevard County	Aug. 7-13	1		
Duval County	June 19–25	2		
Gadsden County	July 3-Aug. 13	11	[	
Hillsboro County	July 17-Aug. 6	2		
Jackson County	June 19-Aug. 6	3		
Brevard County  Duval County  Gadsden County  Hillsboro County  Jackson County  Leon County  Liberty County  Santa Rosa County	Mor 1_21	4	1	
Liberty County Santa County Taylor County	July 17-23	14	-	
Santa Rosa County	July 31-Aug. 6	2	••••	
Taylor County	July 31-Aug. 6 July 3-9	ī		
Walton County	June 12-18	1		
m . 14 a				
Total for State	• • • • • • • • • • • • • • • • • • • •	41	1	
eorgia:				
eorgia: Columbus	July 3-9	6		
Macon	Apr. 1-June 30	8		
Total for State		14		
inois:				
Adams County				
	Tuna 1_20	9		
Clay County	June 1-30	2		
Clay County	June 1-30 June 1-30 June 1-Aug. 31	1		
Coles County	June 1-30 June 1-Aug. 31	1 30		
Cook County	June 1-30 June 1-Aug. 31	30 1 3		
Coles County	June 1-30	30 1 3 2		
Coles County	June 1-30	30 1 3 2 1		
Coles County	June 1-30	30 1 3 2 1 3		
Coles County Cook County Chicago Edgar County Franklin County Henry County Iroquids County	June 1-30	30 1 3 2 1 3 1		
Coles County Cook County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County	June 1-30	30 1 3 2 1 3 1 9		
Clay County. Cook County. Cook County. Chicago Edgar County. Franklin County. Henry County. Iroquois County. Jo Daviess County Kendall County.	June 1-30	30 1 3 2 1 3 1 9		
Clay County. Coles County. Chicago. Edgar County. Franklin County. Henry County. Iroquois County. Jo Daviess County. Knox County. Madison County. Madison County.	June 1-30. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-30. June 1-30. June 1-30. June 1-30. June 1-July 31. June 1-July 31. June 1-July 31. June 1-July 31.	1 30 1 3 2 1 3 1 9		
Clay County. Cook County. Chicago Edgar County. Franklin County. Henry County Iroquois County Jo Daviess County Kendall County Madison County Madison County	June 1-30. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-30. June 1-30. June 1-30. June 1-30. June 1-July 31. June 1-July 31. June 1-July 31. June 1-July 31.	1 30 1 3 2 1 3 1 9 2 6		
Clay County. Coles County. Coles County. Chicago. Edgar County. Franklin County. Henry County. Iroquois County. Jo Daviess County. Kendall County. Knox County. Madison County. Marion County. Montgomery County.	June 1-30. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-30. June 1-30. June 1-30. June 1-July 31. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31. June 1-30.	1 30 1 3 2 1 3 1 9		
Clay County. Cook County. Cook County. Chicago Edgar County. Franklin County. Henry County. Iroquois County. Jo Daviess County Kendall County. Knox County Madison County. Marion County. Montgomery County. Peoria County.	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-Aug. 31.	1 30 1 3 2 1 3 1 9 2 2 3 1 2 2 3		
Clay County Coles County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Knox County Madison County Montgomery County Montgomery County Peoria County Peoria County	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-Aug. 31.	1 30 1 3 2 1 3 1 9 2 6 23 3 6 6		
Clay County. Coles County. Chicago. Edgar County. Franklin County. Henry County. Iroquois County. Iroquois County. Kendall County. Knox County Madison County. Marion County. Montgomery County. Perry County. Perry County.	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-Aug. 31.	1 30 1 3 2 1 9 2 6 23 3 6 6 1		
Clay County. Cook County. Cook County. Chicago Edgar County. Franklin County. Henry County. Iroquois County. Jo Daviess County Kendall County. Knox County Madison County. Marion County. Montgomery County. Peoria County. Perry County. Pulaski County. Randolph County.	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-Aug. 31.  June 1-30.	30 1 3 2 1 1 3 1 9 2 6 6 23 3 6 6 1		
Clay County Cook County Cook County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Kendall County Marion County Marion County Montgomery County Peoria County Perry County Pulsaki County Randolph County Randolph County Reichland County	June 1-30. June 1-July 31. June 1-July 31. June 1-July 31. June 1-Juny 31. June 1-Aug. 31. June 1-Aug. 31. June 1-30. June 1-Aug. 31. June 1-Aug. 31. June 1-Aug. 31.	30 1 3 2 1 1 3 1 9 2 6 6 23 3 6 6 6 1		
Clay County Cook County Cook County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Knox County Madison County Marion County Montgomery County Perry County Perry County Perry County Randolph County Randolph County Randolph County Richland County Rock Island County	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.	30 1 3 2 1 3 1 9 2 2 3 6 6 1 1 1 9 8		
Clay County Cook County Cook County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Knox County Madison County Madison County Montgomery County Peoria County Perry County Pulaski County Randolph County Randolph County Richland County Richland County Rock Island County Rock Island County Rock Island County	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.	30 1 3 2 1 3 1 9 2 6 6 23 3 6 6 6 1 1 1 9 8 8 1		
Clay County Cook County Coles County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Madison County Madison County Marion County Montgomery County Peorja County Perry County Perry County Parry County Randolph County Randolph County Richland County St. Clair County St. Clair County Saneamon County	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.	30 1 3 2 1 3 1 9 2 6 6 6 1 1 1 9 8 1		
Coles County Cook County Cook County Cook County Chicago Edgar County Franklin County Henry County Jo Daviess County Kendall County Knox County Madison County Madison County Montgomery County Peoria County Perry County Perry County Palaski County Randolph County Richland County Richland County Richland County Sangamon County Sangamon County Sangamon County	June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-July 31.  June 1-Aug. 31.  June 1-30.  June 1-30.  June 1-30.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-30.	30 1 3 2 1 3 1 9 2 6 6 2 3 6 6 6 1 1 1 2 1		
Clay County Coles County Coles County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendall County Kendall County Marion County Marion County Montgomery County Peoria County Perry County Randolph County Randolph County Randolph County Richland County Rock Island County St. Clair County St. Clair County Tazewell County Tazewell County Tazewell County Union County Toury Tulout County Toury Toury Tulout County Toury	June 1-30.  June 1-July 31.  June 1-30.  June 1-30.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-July 31.	30 1 32 21 33 1 9 26 23 36 66 11 11 9 88 11		
Coles County Cook County Chicago Edgar County Franklin County Henry County Iroquols County Jo Daviess County Kendall County Madison County Marion County Marion County Montgomery County Peorja County Perry County Perry County Randolph County Randolph County Richland County St. Clair County St. Clair County Tazewell County Tazewell County Wayne County	June 1-30. June 1-July 31. June 1-Aug. 31. June 1-30.	30 1 32 2 1 1 9 2 6 6 23 3 6 6 6 1 1 1 9 8 8 1		
Clay County Cook County Chicago Edgar County Franklin County Henry County Iroquois County Jo Daviess County Kendail County Madison County Marion County Marion County Marion County Montgomery County Peoria County Perry County Perry County Randolph County Richland County St. Clair County St. Clair County Tazewell County Tazewell County Tazewell County Union County	June 1-30.  June 1-July 31.  June 1-30.  June 1-30.  June 1-30.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-Aug. 31.  June 1-July 31.	30 1 32 21 33 1 9 26 23 36 66 11 11 9 88 11		

## Reports Received from June 25 to September 30, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
ndiana:				
Allen County				
Carroll County	June 1-30			
Clay County	June 1-30	2		
Clinton County Dekalb County	May 1-31 June 1-30			
Delaware County	May 1-31	4		
Elkhart County	May 1-31	ī		i
Gibson County	May 1-31	1		İ
Grant County	May 1-June 30	13		
Greene County	May 1-31	9 21		
Howard CountyLake County	May 1-June 30 June 1-30	1		ł
Madison County	June 1–30	6		
Marion County	May 1-June 30	6		
Marion County	June 1–30 June 1–30	1		
Martin County	June 1-30	4		
Miami County. Montgomery County	June 1-30			
Orange County	June 1-30	6 18		
Orange County Owen County	May 1-June 30	23		İ
Putnam County	June 1-30	ī		
St. Joseph County	May 1-June 30	10		
Tipton County	May 1-31	1		
Vigo County	May 1-June 30	28	•••••	
Warren County	June 1-30	1 6		
Wayne County	June 1-30. May 1-31. May 1-June 30. June 1-30. May 1-June 30. May 1-31. May 1-June 30. June 1-30. June 1-30.	0		
Total for State		180		
wa:	•			•
Benton County	June 1–July 31 June 1–30	4		
Buchanan County	June 1-30	2		
Cedar County	July 1-31	1		•
Clayton County	June 1–30 June 1–30	1		
Dallas County Delaware County	June 1-30			
Dubuque County	June 1-30			
Linn County	June 1-Aug. 31	41		
Plymouth County	Aug. 1-31	1		
Polk County	June 1-July 31	19		
Pottawattamie County	June 1-Aug. 31	21		
Scott County	June 1-July 31	4 7	[	
Warren County Webster County	Aug. 1–31 July 1–31	í		
Winneshiek County	June 1–30	ī		
Woodbury County	June 1–30 June 1–30	ī		•
	·			
Total for State		116		
ansas: Allen County Atchison County— Atchison	May 1-July 31	39		
_ Atchison	Apr. 1-May 31 June 1-July 31	7		
Barton County	June 1-July 31	7 8		
Butler County Cherokee County	Apr. 1-June 30 June 1-30	4		
Clay County	July 1-31	ī		
Coffey County	July 1-31	1		
Cowley County	Apr. 1-July 31	12		
Crawford County	June 1-30	4	1	
Decatur County	Apr. 1-July 31	37		
Dickinson County Doniphan County	June 1-30. July 1-31. July 1-31. Apr. 1-July 31. June 1-30. Apr. 1-July 31. May 1-June 30. Apr. 1-30. Apr. 1-30. Apr. 1-30.	10 10		
Edwards County	Apr. 1-June 30	4		•
		6		
Elk County	July 1-31	3		
Ellsworth County	Apr. 1-30	1		
Finney County	Apr. 1-30	2		
Grehem County	June 1-30 Apr. 1-May 31	1 6		
Graham County Greenwood County	Apr. 1-June 30	56		
Harper County	May 1-June 30	8		
Harvey County	Apr. 1-June 30	22		
Hodgeman County	July 1-31	1		
Jewell County	May 1-June 30	21		
	Apr. 1-May 31	5		
Kearny County	Apr 1 Tune 20		I	
Kingman County Labette County—	Apr. 1-June 30	4		

# Reports Received from June 25 to September 30, 1910.

Date   Cases   Deaths   Remarks
Leavenworth County
Leavenworth County
Leavenworth County
Lyon County
Lyon County
Maim County
Maim County
Montgomery County
Coffeyville
Nemaha County         July 1-31         2           Neosho County         May 1-July 31         38
Neosho County May 1-July 31 38
And a second
Norton County
Osage County Apr. 1-May 31 6
Osborne County Apr. 1-June 30 33
Pawnee County Apr. 1–30 3
Phillips County May 1-31 6
Pratt County
Norton County
Reno County
Riley County
Rush County
Saline County Apr. 1-June 30 21
Second County
Seugwick County
Wichita
Seward County
Shawnee County         June 1-30         1           Topeka         July 1-31         7
Sheridan County
Topeka
Stafford County
Stafford County       June 1-July 31       4         Jumner County       May 1-31       4         Chomas County       Apr. 1-May 31       2         1       1
Stafford County.         June 1-July 31.         4           Sumner County.         May 1-31.         4           Thomas County.         Apr. 1-May 31.         2         1
Trego County
Wallace County
Wyandotte County Apr. 1-39 4
Wallace County       June 1-39       1         Wyandotte County       Apr. 1-30       4         Kansas City       Apr. 1-June 30       57
- Tune out
Total for State 744 7
rtucky:
Covington June 26-July 2 1
Total for State
Total for State1
isjana:
Avoyelles Parish June 1-30 12
Calcasieu Parish
Iberia Parish June 1-30 19
Orleans Parish June 1-30
New Orleans
St. John Parish June 1–30 10
St. Tammany Parish June 1-30 2
St. Tammany Parish June 1-30 2
St. Tammany Parish. June 1–30. 2 Tangipahoa Parish. June 1–30. 25 Vermilion Parish. June 1–30. 30
St. Tammany Parish. June 1-30 2 Tangipahoa Parish June 1-30 25 Vermilion Parish June 1-30 30
Total for State
Total for State. 191
Total for State
Total for State. 191
Total for State
Total for State. 191
Total for State
Total for State
Total for State
Total for State 191  it is it
Total for State 191
Total for State 191
Total for State. 191  ie: Biddeford. May 1-31. 1  Total for State. 1  /land: Allegany County— Cumberland May 1-July 31. 2  Total for State 2  achusetts: fiddlesex County. July 1-31. 1  unfolk County. June 1-July 31 8
St. Tammany Parish
Total for State. 191  ne: Biddeford. May 1-31. 1  Total for State. 1  yland: Allegany County— Cumberland May 1-July 31. 2  Total for State. 2  sachusetts: Middlesex County. July 1-31. 1 Suffolk County. June 1-July 31. 8  Total for State. 9
Total for State 191  ne: Biddeford May 1-31 1  Total for State 1  yland: Allegany County— Cumberland May 1-July 31 2  Total for State 2  Total for State 2  Sachusetts: Middlesex County July 1-31 1 Suffolk County June 1-July 31 8  Total for State 9
Total for State 191  ne: Biddeford May 1-31 1  Total for State 1  yland: Allegany County— Cumberland May 1-July 31 2  Total for State 2  Total for State 2  Sachusetts: Middlesex County July 1-31 1 Suffolk County June 1-July 31 8  Total for State 9
Total for State 191  ne: Biddeford May 1-31 1  Total for State 1  yland: Allegany County— Cumberland May 1-July 31 2  Total for State 2  sachusetts: Middlesex County July 1-31 1 Suffolk County June 1-July 31 8  Total for State 9
Total for State

# Reports Received from June 25 to September 80, 1910.

Dless	Doto	Conn	Desab	Domest-
Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Berrien County	July 1-Aug. 31	. 2		-
Cheboygan County Clare County	June 1-Aug. 31	. 33		-
Emmet County	June 1-July 31	1 2		]
Katon Colinty	Aug. 1–31 June 1–30	. 7		]
Genesee County	June 1-Aug. 21	. 44		-
Grand Traverse County Gratiot County	July 1-Aug. 31	10		•
Houghton County	July 1-Aug. 31 June 1-Aug. 31 June 1-30 June 1-July 31	. 3		]
Huron County	. June 1-July 31	. 8 12		
Ingham County	Jinna I-Ang. XI	10		-
Ionia CountyIsabelia County	June 1-Aug. 31 June 1-July 31 June 1-July 31 June 1-30	. 4		1
Kalamazoo County	. June 1-July 31	. 8		:1
Kent County	. June 1-30	17		• <b> </b>
Lencer County	I JINIA I-XI	1 16		•
Lapeer CountyLivingston County	June 1–July 31 June 1–30 June 1–30 June 1–30	17		•
Manistee County	. June 1-30	9	1	
Marquette County	. June 1-30	.1		-
Mason County Mecosta County	. June 1-Aug. 31	11 7		•
Midland County	June 1-July 31	ıi		
Missaukee County	.  June 1–July 31	12		
Monroe County	. June 1-30	2		•
Montealm County	June 1-30	1 2		·
Muskegon County Newaygo County	Jiine I_30	2		1
Osceola County	June 1-Aug. 31	5		
Ottawa County	June 1–30	1		
Roscommon County	June 1-30	4 35		i
St. Clair County	June 1-Aug. 31	51		1
Sanilac County	June 1-Aug. 31 June 1-Aug. 31 June 1-July 31 June 1-Aug. 31 June 1-Aug. 31	3		
Shiawassee County	June 1-Aug. 31	54		1
Tuscola County	June 1-Aug. 31 June 1-Aug. 31	18 19		
wayne county	June 1-Aug. of			
Total for State		476	3	l
Iinnesota:	1			1
Pope County	Apr. 1-30		1	
St. Louis County	June 1-30 Mar. 1-31	• • • • • • • •	1 1	
Rice County Beltrami County	May 26-June 5	4		
Blue County	May 26-June 5 June 6-12	1		
Carver County	June 13-July 10 May 26-July 31	2		
Faribault County	May 26-July 31	2 53	•••••	
Hennepin County Kittson County	May 26-July 31	2		
Koochiking County	June 6-19 May 26-June 5	6		
Lesueur County	June 13-19	32		
Meeker County Mower County	June 6-12 July 11-17	1 4	•••••	
Ramsey County	June 13-July 31	22		
Ramsey County	June 6-12	1		
Rice County	June 13-July 31 June 6-12 May 26-July 10 May 26-June 5	.2		
St. Louis County Stearns County	June 20-26	10		
Steele County	June 6-19	2		
Wabasha County	June 6-19 June 13-26	2		
Wright County	July 4-31	2		
Total for State		149	3	
ississippi:	=			
Natchez	July 24-30	5		
Total for State		5		
issouri:	=			
Kansas City	May 15-June 30	32		
St. Louis	June 12-July 16	9 .		
Savannah	June 26-July 2	5 .		
Total for State	<b>_</b>	46		
	=			

## Reports Received from June 25 to September 30, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Montana:				
	June 1-30	1	l	
法 Cascade County	June 1-30	1		
Custer County	Apr. 1-30	<u>:</u> -	1	
Dawson County	June 1-July 31	12		•
Fletherd County	June 1-July 31	8		1
Meagher County	June 1-30	i		
Perk County	June 1-30	2		
Rosebud County	June 1-30	2		
Silver Bow County	June 1-July 31	11		
Butte	June 1-July 31	40		
<b>Yellowstone</b> County	June 1-30	2		
Total for State		83	1	
Vebraska:				
Lincoln	Apr. 1-June 30	30	1	
South Omaha	June 1-30	3		
		33		
Total for State				
New Jersey: Cumberland County	June 1-Aug. 31	7		
Total for State	_	7		
		53	8	
New York, general Eric County—	June 1-July 31	_	•	
Buffalo	May 1-31	1		
Tonawanda Township.	May 1-31	2		
Niagara County—	Mor. 1 21	1		
Niagara Falls North Tonawanda	May 1-31 May 1-31	i		
St. Lawrence County	May 1-31	19		
Schenectady County	May 1-31	2		
Total for State		79	8	
North Carolina:			_	
Possetth Country				
Forsyth County	Feb. 1-28		1	
Rowan County	Feb. 1-28		i	
Rowan County	Feb. 1-28 Mar. 1-June 30	41		
Rowan CountyAlamance CountyAlexander County	Feb. 1-28 Feb. 1-28 Mar. 1-June 30 Mar. 1-June 30	41 75		
Rowan County Alamance County Alexander County Anson County	Feb. 1-28	וש		
Rowan County	A Dr. 1-June 30	12		
Rowan County  Alamance County  Alexander County  Anson County  Ashe County  Beaufort County	Mar. 1-31 Mar. 1-June 30	12 5		
Alamance County	Mar. 1-31 Mar. 1-June 30 Apr. 1-June 30	12 5 19		
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Bladen County Buncombe County	Mar. 1-31 Mar. 1-June 30 Apr. 1-June 30 June 1-30	12 5 19 1		
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Bladen County Buncomhe County Cabarrus County	Mar. 1-31	12 5 19 1 1		
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Buden County Buncombe County Cabarrus County Caldwell County	Mar. 1-31	12 5 19 1 15		
Rowan County Alamance County Alexander County Anson County Beaufort County Bladen County Buncombe County Cabarrus County Caldwell County Catawba County	Mar. 1-June 30  Mar. 1-June 30  Apr. 1-June 30  June 1-30  Mar. 1-June 30  Mar. 1-June 30  Mar. 1-June 30	12 5 19 1 15 13 42		
Rowan County  Alamance County  Alexander County  Anson County  Beaufort County  Bladen County  Buncombe County  Cabarrus County  Catawba County  Catawba County  Chatham County	Mar. 1-31	12 5 19 1 15 13 42 18		
Rowan County.  Alamance County.  Alexander County.  Anson County  Ashe County.  Beaufort County.  Bladen County.  Buncombe County.  Cabarrus County.  Caldwell County.  Catawba County.  Chatham County.  Chowan County.	Mar. 1-31	12 5 19 1 15 13 42		Fow cases.
Rowan County  Alamance County  Alexander County  Anson County  Beaufort County  Bladen County  Bluncombe County  Cabarrus County  Caldwell County  Catawba County  Chatham County  Chowan County  Chevan County  Chevan County  Chowan County  Cleveland County	Mar. 1-June 30 Mar. 1-June 30 Apr. 1-June 30 June 1-30 Mar. 1-June 30	12 5 19 1 15 13 42 18 3		Few cases.
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Bluen County Caberrus County Caldwell County Catawba County Chatham County Chewan County Cleveland County Cleveland County Cleveland County Cleveland County Columbus County Columbus County	Apr. 1-3 mas 3 mar. 1-3 mar. 1	12 5 19 1 15 13 42 18 3		Few cases.
Rowan County.  Alamance County.  Alexander County.  Anson County.  Beaufort County.  Beaufort County.  Buncombe County.  Cabarrus County.  Caldwell County.  Catawba County.  Chatham County.  Chowan County.  Cleveland County.  Columbus County.  Columbus County.  Craven County.	Mgr. 1-3 1.30 Mg	12 5 19 1 15 13 42 18 3		Few cases.
Rowan County Alexander County Alexander County Anson County Ashe County Beaufort County Bladen County Caberrus County Caddwell County Catawba County Chatham County Chevland County Chevland County Creven County	Apr. 1-3 line 30 Mar. 1-3 line 30 Apr. 1-3 line 30 June 1-30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-3 line 30 Mar. 1-3 line 30 Mar. 1-3 line 30 Mar. 1-3 line 30 Apr. 1-Aug. 31 Mar. 1-3 line 30 Mar. 1-3 line 30	12 5 19 1 15 13 42 18 3 3		Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Caberrus County Catawba County Catawba County Chevan County Cleveland County Davidson County	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Apr. 1-Aug. 31.  Mar. 1-June 30.	12 5 19 15 13 42 18 3 25 1 23 5		Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Catwell County Catawba County Chatham County Chevland County Cleveland County Columbus County Craven County Craven County Craven County Currituck County	Apr. 1-3 mas 1 mar. 1-3 mar. 3  12 5 19 1 15 13 42 18 3 25 1 23 5 8		Few cases.	
Rowan County  Alamance County  Alamance County  Anson County  Ashe County  Beaufort County  Beaufort County  Buncombe County  Cabarrus County  Catawba County  Chatham County  Cleveland County  Cleveland County  Craven County  Craven County  Currituck County  Davidson County  Davidson County  Davidson County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Davie County  Begecombe County	Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 830 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 Mar. 1-3 III 831 June 1-3 III 930 Mar. 1-3 II 93	19 5 19 11 15 13 42 18 3 3 25 1 23 5 8		Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Chowan County Columbus County County Columbus County Craven County Craven County County Davidson County Davidson County Davidson County Davidson County Edgecombe County Edgecombe County Forsyth County	Apr. 1-3 III - 30 Mar. 1-3 III - 30 Apr. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-4 III - 30 Mar. 1-4 III - 30 Mar. 1-4 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-3 III - 30 Mar. 1-4 III - 30	12 5 19 1 15 13 42 42 18 3 3 25 1 23 5 8 32 1 23		Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Bladen County Caberrus County Catawba County Catawba County Cheveland County Cleveland County County County County County County County County County County County County County County County County Davidson County Davidson County Davidson County Edgecombe County Forsyth County Forsyth County Franklin County	Mar. 1-31 Mar. 1-31 Mar. 1-31 Mar. 1-31 Mar. 1-30 June 30 Mar. 1-10 Mar. 1-40 Mar. 1-30 Mar. 1-June 30 Mar. 1-June 30 Mar. 1-31 June 1-30 Mar. 1-31 Mar. 1-31 Mar. 1-31 Mar. 1-40 Mar. 1-31 Mar. 1-40 Mar. 1-31 June 30 Mar. 1-31 Mar. 1-31 Mar. 1-31 Mar. 1-40 Mar. 1-40 Mar. 1-40 Mar. 1-40 Mar. 1-40 Mar. 1-40 Mar. 1-40 Mar. 1-40	12 5 19 1 15 13 42 18 3 25 1 23 5 8 8 3 2 1 23 5 8 23 5 8	1	Few cases.
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Cheveland County Cleveland County Columbus County County County County County County County County County Davidson County Davidson County Davidson County Davidson County Davidson County Franklin County Franklin County Franklin County Gaston County	Apr. 1-3 line 30 Mar. 1-3 line 30 Apr. 1-7 line 30 Apr. 1-7 line 30 June 1-30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-3 line 30 Apr. 1-Aug. 31 Apr. 1-Aug. 31 Mar. 1-3 line 30 Mar. 1-7 line 30 Mar. 1-7 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-4 line 30 Mar. 1-3 line 30	12 5 19 1 15 13 42 18 3 25 1 23 25 1 28 5 5 13		Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Bladen County Cabarrus County Catawba County Chatham County Chowan County Columbus County Columbus County Columbus County Columbus County Columbus County Columbus County County County County Davidson County Davidson County Davie County Davie County Faranklin County Franklin County Gaston County Grabam County Grabam County Grabam County	Apr. 1-3 mar.  12 5 19 1 15 13 42 18 3 25 1 23 5 8 32 1 1 28 5 1 3	1	Few cases.	
Rowan County.  Alamance County.  Alamance County.  Anson County  Ashe County  Beaufort County  Bladen County.  Buncombe County.  Cabarrus County.  Cabarrus County.  Catawba County  Chowan County  Cleveland County  Cleveland County  Craven County.  Currituck County  Currituck County  Davidson County  Davidson County  Davie County  Forsyth County  Forsyth County  Franklin County  Gaston County  Graham County  Graham County  Greene County.	Mar. 1-3 III   Mar. 1-June 30   Mar. 1-June 30   June 1-30   Mar. 1-June 30    Mar.	12 5 19 11 15 13 142 18 3 3 25 1 23 5 8 8 1 28 5 1 28 5 1 1 28 5 1 1 28 5 1 1 28 5 1 28 5 7 8 7 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8	1	Few cases.
Rowan County Alexander County Anson County Ashe County Beaufort County Beaufort County Bladen County Caberrus County Caddwell County Catawba County Chatham County Cheviand County Count	Mar. 1-3 III   Mar. 1-June 30   Mar. 1-June 30   June 1-30   Mar. 1-June 30    Mar.	12 5 19 1 15 13 42 18 3 3 25 1 23 5 5 8 32 1 1 28 8 3 2 1 1 2 2 3 1 2 3 5 3 1 2 3 3 3 4 3 3 4 3 3 5 3 3 5 3 3 3 3 3 3 3	1	Few cases.
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Bladen County Cabarrus County Catawba County Catawba County Chatham County Cheveland County Craven County Craven County Craven County Craven County Craven County Craven County Craven County Courrituck County Davidson County Davidson County Davidson County Forsyth County Forsyth County Franklin County Gaston County Greene County Greene County Greene County Greene County Greene County Greene County Greene County Greene County	Apr. 1-3 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-3 III Mar. 1-4 III Mar.	12 5 19 11 15 13 42 18 3 3 25 1 23 1 23 1 23 1 23 1 23 1 23 1	1	Few cases.
Rowan County Alamance County Alexander County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Caldwell County Catawba County Cheveland County Cleveland County County County County County County Craven County Craven County Davidson County Davidson County Davidson County Forsyth County Forsyth County Franklin County Gaston County Graham County Graham County Greene County Greene County Greene County Greene County Greene County	Apr. 1-3 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-3 III Mar. 1-4 III Mar.	12 5 19 11 15 13 42 48 13 3 	1	Few cases.
Rowan County  Alamance County  Alamance County  Alexander County  Ashe County  Beaufort County  Bladen County  Buncombe County  Cabarrus County  Catawba County  Chatham County  Chevand County  Cleveland County  Craven County  Craven County  Currituck County  Currituck County  Davidson County  Davidson County  Davidson County  Forsyth County  Forsyth County  Gaston County  Grabam County  Grabam County  Greene County  Greene County  Greene County  Greene County  Greene County  Greene County  Greene County	Apr. 1-3 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-3 III Mar. 1-4 III Mar.	12 5 19 11 15 13 42 18 3 3 25 1 25 1 23 1 23 1 28 3 20 5 1 3 20 1 1 1 2 2 3 2 1 3 2 3 1 3 1 3 2 3 1 3 1	1	Few cases.
Rowan County  Alamance County  Alamance County  Alexander County  Ashe County  Beaufort County  Bladen County  Buncombe County  Cabarrus County  Catawba County  Chatham County  Chevand County  Cleveland County  Craven County  Craven County  Currituck County  Currituck County  Davidson County  Davidson County  Davidson County  Forsyth County  Forsyth County  Gaston County  Grabam County  Grabam County  Greene County  Greene County  Greene County  Greene County  Greene County  Greene County  Greene County	Apr. 1-3 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-4 III Mar. 1-3 III Mar. 1-4 III Mar.	12 5 19 11 15 13 42 18 3 3 21 23 5 8 12 28 5 13 8 20 5 5 8 40 6 6 6 6	1	
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Beaufort County Buncombe County Caldwell County Catawba County Chatham County Chowan County Columbus County Columbus County County Columbus County Halifax County Hertford County Hertford County Hertford County Hertford County Hertford County Hertford County	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.	12 5 19 11 15 13 42 18 3 3 25 12 23 5 8 8 20 8 40 6 6 12 12	1	
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Beaufort County Buncombe County Caldwell County Catawba County Chatham County Chowan County Columbus County Columbus County County County County County County County County Davidson County Davidson County Davidson County Franklin County Franklin County Graham County Graham County Fronsyth County Franklin County Graham County Graham County Graham County Hallfax County Hallfax County Henderson County Henderson County Hertford County Hertford County Hertford County Hertford County	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.	12 5 19 11 15 13 42 18 3 3 25 1 23 25 1 28 8 32 1 1 28 8 20 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1	Few cases.  Several cases in May. Several cases in March,
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Chowan County Cleveland County Forsyth County Franklin County Grabam County Grabam County Halifax County Haywood County Henderson County Iredell County Iredell County Johnson County Jones County Jones County Jones County Jones County	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.	12 5 19 1 1 15 23 42 23 5 8 32 1 28 28 40 6 6 6 1 1 20 4 1	1	
Rowan County Alamance County Alaxander County Anson County Ashe County Beaufort County Bladen County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Chowan County Chowan County County County County County County County County County County County County County County County County County County County Davidson County Davidson County Davidson County Franklin County Franklin County Graham County Graham County Graham County Halifax County Haywood County Haywood County Hertford County Hertford County Hertford County Iredell County Johnson County Jones County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Leener County Lee	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Apr. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.	12 5 19 11 15 13 42 18 3 3 25 1 25 1 28 8 20 5 8 8 20 6 6 6 1	1	
Rowan County Alamance County Alaxander County Anson County Ashe County Beaufort County Bladen County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Chowan County Chowan County County County County County County County County County County County County County County County County County County County Davidson County Davidson County Davidson County Franklin County Franklin County Graham County Graham County Graham County Halifax County Haywood County Haywood County Hertford County Hertford County Hertford County Iredell County Johnson County Jones County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Lee County Leener County Lee	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Apr. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.	12 5 19 11 15 13 42 42 13 3 25 12 23 5 8 32 11 28 6 6 6 6 12 12 12 13 13 13 13 13 13 13 13 13 13 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	1	
Rowan County Alamance County Alamance County Anson County Ashe County Beaufort County Bladen County Buncombe County Cabarrus County Catawba County Chatham County Chowan County Chevland County Cleveland County County County County County County County County Davidson County Davidson County Davidson County Halifax County Halifax County Haywood County Hertford County Horson County Johnson County Jones County Jones County Jones County Jones County Jones County	Apr. 1-June 30.  Mar. 1-June 30.  Apr. 1-June 30.  Apr. 1-June 30.  June 1-30.  Mar. 1-June 30.  Apr. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.  Mar. 1-June 30.  Mar. 1-Aug. 31.	12 5 19 11 15 13 42 18 3 3 25 1 25 1 28 8 20 5 8 8 20 6 6 6 1	1	

## Reports Received from June 25 to September 30, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Mecklenburg County	Mar. 1-Aug. 31	26		Parr
Mitchell County	Aug. 1-31	54		Few.
Nash County	Mar. 1-Aug. 31	. 55		
New Hanover County	Mar. 1-Aug. 31	35		
Onslow County				
Orange County	Mar. 1-June 30	45		
Pamilco County Pender County	Ang 1_31	6 7		
Perquimans County	Mar. 1-June 30. Mar. 1-Aug. 31. Aug. 1-31 May 1-31. May 1-June 30. Mar. 1-Aug. 31. Apr. 1-30. Apr. 1-Aug. 31.	i		
Person County	May 1-June 30	4		
Pitt CountyPolk County	Mar. 1-Aug. 31	28		
Polk County	Mar. 1-31	7 2		
Richmond County Robeson County	Apr. 1-30	29		
Rockingham County	Apr. 1-Aug. 31 Mar. 1-31	48		
Rowan County	Маг. 1-June 30	43	1	
Sampson County	May 1–Aug. 31	3		
Scotland County	May 1-31	5 26		
Stanly County Stokes County	Mar. 1-31	64		
Surry County	Mar. 1-31	4		
Union County	Mar. 1-Aug. 31	34		
Vance County	Apr. 1-30	4		
Wake County	Apr. 1-May 31	22		
Warren County Washington County	Apr. 1-Aug. 31	27		
Wautauga County	Mar. 1-Apr. 30	35		
Wayne County	Anr. 1-May 31	6		Few cases in June.
Wilkes County	Mar. 1-June 30 Mar. 1-June 30	37	i	
Wilson County	Mar. 1-June 30	25	1	
Yancey County	Mar. 1-31	26		
Total for State	• • • • • • • • • • • • • • • • • • • •	1,305	7	
North Dakota:				
Bowman County	Aug. 1-31	37	l	
Cass County	June 1-July 31	3		
Cavalier County	June 1-30	1		
Grand Forks County	June 1-10	4		
Logan County McKenzie County	June 1–30 June 1–30	i		
Morton County	July 1-31	4		
Pierce County	June 1-30	1		
Stark County	July 1-31	1		
Stutsman County	Aug. 1–31 June 1–30	1		
Traill County	June 1-30	6		•
waite county	June 1-00			
Total for State	•	64		
klahoma, general	Jan. 1-31 Apr. 1-30 Apr. 1-30		1	Reported out of date.
Canadian County	Apr. 1-30	•••••	1	
Comanche County Oklahoma County	Apr. 1-30		3 4	
Pottawatomie County	Apr. 1-30		2	
Atoka County	May 1-31	20		
Beckham County	May 1-31	2		
Blaine County	May 1-31 May 1-31	8		
Caddo County	May 1-31	17		
Choctaw County	May 1-31	i l		
Coal County	May 1-31	5		,
Comanche County	May 1-31	4	1	
Custer County	May 1-31	9		
Garvin County	May 1-31	1	·····i	
Grady CountyGrady County	May 1-31	6	6	
Haskell County	May 1-31	7		
Hughes County	May 1-31	42		
Jefferson County	May 1-31	3		
Kiowa County	May 1-31	1		
Lincoln County McLain County	May 1-31	9		
McIntosh County	May 1-31	11		
	30.	1		
Murray County	May 1-31			
Murray County	May 1-31	5		
Murray County  Muskogee County  Noble County  Nowata County	May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.  May 1-31.			

# SMALLPOX IN THE UNITED STATES—Continued. Reports Received from June 25 to September 30, 1910.

Place.	Date.	Cases	. Deaths	. Remarks.
)klahoma, general—Continue	1.			
Oklahoma County	May 1-31		[] 1	
Okmulgee County	. May 1-31		}	•
Pawnee County	. May 1-31		l	-
Payne County	. May 1-31			-1
Pittsburg County	May 1-31			
Pontotoc County	.  May 1-31	. 12	:	.1
Seminole County	. May 1-31	. 1		_
Texas County	. May 1-31			3
Tillman County	. May 1-31			]
Tulsa County	. May 1-31	] ]		<b>1</b>
Washita County	. May 1-31			l .
				-
Total for State		214	22	=
ilo: Allen County	. June 1-30	. a	.	
	Toler 1 21			•
Athens County	. July 1-31	. 1		•1
Butler County	. June 1-July 31	. 4		•i
Clarke County	. July 1-31	. 3		·
Clinton County	.  June 1-30	10		·
Columbiana County	.  June 1-July 31	! 6		,į
Cuyanoga County	.  June 1-July 31	16	1	ŀ
Fairfield County	.  June 1-30	1		.]
Franklin County	June 1-Aug. 31	10		
Hamilton County	June 1-30	i		,
Hancock County	July 1-31	4		
Hocking County	June 1-July 81	26	}	1
Jefferson County	July 1-31	l ī	1	1
Lucas County	June 1-Aug. 31	7		<b>' </b> ·
Mahaning County	Terbe 1. 21	li		i
Mahoning County	July 1-31		••••••	1
Marion County	July 1-51	1		1
Perry County	June 1-30	1		i
Pickaway County	June 1-30	1		·}
Portage County		7		1
Ross County		73		
Seneca County	July 1-31	1		1
Scioto County	June 1-30	2		
Stark County	June 1-July 31	29		
Summit County	July 1-31	5		
Wayne County	June 1-30	2		
Wood County	June 1-30	2		
			<u> </u>	
Total for State	•••••	218	1	
egon:			1	
Baker County	May 1–31	1		
Benton County	May 1-31	2		
Linn County	June 1-30	2		
Multnomah County	Apr. 1-May 31	10		
Umatilla County	May 1-31	1		
Union County	May 1-31	2		
Wasco County	Apr. 1-30	2		
Washington County	Apr. 1-June 30	3	*	
Yamhili County	Apr. 1-June 30	15		
	fer 1 anne an	10		
Total for State		38		
ınsylvania, general	Apr. 1-30	• • • • • • •	2	
· -	May 1-June 30	29	3	
Total for State		29	5	
ıth Carolina:	-			
Charleston	June 1-July 31	28		
Total for State		28		
nessee:	İ		I	
Benton County—	· ·	2	<u>.</u>	
Benton County— Camden	July 1-7.			
Camden	July 1-7		I	
Camden	-			
Camden Davidson County— Nashville	July 1-7	2		
Camden	June 12-July 9	2	,	
Camden. Davidson County— Nashville. Hamilton County— Chattanooga.	-			
Camden	June 12-July 9 June 12-July 16	2 4	,	
Camden Davidson County— Nashville Hamilton County— Chattanooga Knox County— Knox County—	June 12-July 9 June 12-July 16 June 12-July 16	2 4 8	,	
Camden	June 12-July 9 June 12-July 16 June 12-July 16 May 1-June 30	2 4 8 39		
Camden. Davidson County— Nashville. Hamilton County— Chattanooga. Knox County— Knox County—	June 12-July 9 June 12-July 16 June 12-July 16	2 4 8		
Camden. Davidson County— Nashville. Hamilton County— Chattanooga. Knox County— Knoxville. Shelby County.	June 12-July 9 June 12-July 16 June 12-July 16 May 1-June 30	2 4 8 39		

#### Reports Received from June 25 to September 30, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas, general	Apr. 1-July 31	881	27	
Total for State	•••••	881	27	
Utah, generalBoxelder County	Mar. 1-31 May 1-31	112		Report received out of date.
Cache County Davis County Juab County	May 1-31 May 1-July 31 June 1-July 31	6 43 3		
Salt Lake County Utah County	May 1-July 31 May 1-July 31	31 3	1	
Weber County  Total for State	May 1-July 31	25	1	
Virginia:			<del></del>	
Alexandria	Aug. 25			One case from the schooner Persis A. Colwell from Gaspe,
Lynchburg	June 12-18	1		Quebec.
Total for State	•••••	. 1		
Washington, general	Feb. 1-Mar. 31		4	
Wisconsin: Ashland County	June 1-Aug. 31	17		
Barron County Brown County	June 1-30 July 1-31	1 5		
Douglas County	June 1-July 31 July 1-31	3 1 4		·
Eau Claire County Florence County Fond du Lac County	June 1–July 31 June 1–30 July 1–31	4		
Kenosha CountyLafayette County	July 1-31 June 1-30	1 1		
La Crosse County Milwaukee County	June 1-30 July 1-Aug. 31	2 13		
Pierce County Polk County Rusk County	July 1-31 July 1-Aug. 31 June 1-30	1 6 1		
St. Croix County Sawyer County	July 1–31 June 1–30	5 8		
Waupaca County Winnebago County	June 1-Aug. 31 July 1-31	4		
Total for State		79		
Grand total for the United States		5,685	91	

# PLAGUE IN THE UNITED STATES.

#### Reports Received from June 25 to September 30, 1910.

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

# MORBIDITY AND MORTALITY.

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

[For smallpox and plague see special tables.]

Cities.	Week fi		Tuber- culosis.				- 1 -	Scarlet fever.		Diph- theria.		Measles.		Whoop ing cough.	
	ended-	all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths	Casae		Deaths.	Сваев.	Deaths.	Cases.	Deaths.
Altoona, Pa. Ashtabula, Ohlo Do. Aurora, III. Bedford, Ind. Bedford, Ind. Bedford, Ind. Bedford, Ind. Bedford, Ind. Berkeley, Cal Binghamton, N. Y. Boston, Mass. Brockton, Mass. Brockton, Mass. Brockton, Mass. Buffalo, N. Y. Buttler, Pa. Cambridge, Mass. Cambridge, Ohlo. Camden, N. J. Canton, Ohlo. Cardondale, Pa. Charlotte, N. C. Chattanooga, Tenn. Chelsea, Mass. Clincinnati, Ohlo. Clincinnati, Ohlo. Cleveland, Ohlo. Clinton, Mass. Columbus, Ind. Columbus, Ind. Columbus, Ind. Columbus, Ohlo. Danville, Ill. Dayton, Ohlo. Dunkirk, N. Y. Elmira, N. Y. Evansville, Ind. Everett, Mass. Freeport, Ill. Jalesburg, Ill. Jal	Sept. 10	14 6		i	6	2		ı		2 .	•••				
Do	Sept. 17	11		ļ		. 1	1								
Bedford. Ind	sept. 10	7			2			-			• • • •				
Berkeley, Cal	Sept. 3	10		1											
Boston Mass	Sept. 10	17 196	1 46	16	1 21	4	22	· · · · i	28			8 5	··i	7	2
Brockton, Mass	do	12	3	1	5										
Buffalo, N. Y	do	171	26	14	22	2					1	3		134	7
Cambridge, Mass.	Sept. 3	14 19	5	2	1	i	1 1		- 1	.  -				• • • • •	
Cambridge, Ohio	do	2	5 1		2			-		. :					
Canden, N. J	do	12		··i·	1		. 2		. 5		2	<i>.</i> .			
Carbondale, Pa.	do	7			:		4	- :::						••••	• • • •
Charlotte, N. C.	do	7	1		1		. 1		-	- -					
Chelsea Mass	do	13	i			·	. 2		···i	- -		• • • • • •		··i·	• • • •
Cincinnati, Ohio	do		26	13	9	i	21		. 6			2	i		
Cleveland, Ohio	do	133	24	12	37	5	11		. 20		4	4		5	2
Coffevville, Kans	do	3	···2	• • • •	3			-	-	- -					<b>-</b>
Columbus, Ind	do	4				1			. i						· · · · ·
Columbus, Ohio	do	45	8	4	5	1		.		- -	•			1	1
Dayton, Ohio	do	11 32	2	2 4	9	2	1	-	. 2	- -	i	• • • • • •			<b>-</b>
Dunkirk, N. Y.	do	32 7	4	i			. 2			.].,				8	
Elmira, N. Y	do	15	3	··i·	5	1	2							••••	••••
Everett. Mass	do	15 3	1	1	5 2	1	. 3		1 2		•	2			• • • •
Fall River, Mass	do	49	6	4	õ	2	ĭ			. -	i	3	i	5	• • • •
Freeport, Ill	do	6	1	1	· • · ·		. 1		. 1		٠;٠ ٠				<b>-</b>
Houcester. Mass	do	10			• • • •		. 1		. 1		1	•••••	••••	••••	• • • •
reensboro, N. C	do	5			i				i						••••
Harrison, N. J	do	3 34	2	ا-ي-		• • • •	i			-	-		;- -	••••	• • • •
Do	Sept. 3	15	3	5 1 2	···2		2		6			4	1		• • • •
Do	Sept. 10	19	7	2	30	1	2		7	'	i .				
Tyda Park Mass	do	9	2	··i·	••••		1		3		-			••••	• • • •
acksonville, Fla	do	20		3	1 5	2	1		i						••••
Calamazoo, Mich	do	15	1 .		4				ī		.			4	i
Cearney N I	do	22 7	1 4	2 2	10	1	1		1			1 .	• • • •   •		•••
Cingston, N. Y	do			ĩ l						1::				5 .	
noxville, Tenn	do	5 .	-			1					.				
A Favette Ind	do	10			1		3			• •	-		•	-	•••
ancaster, Pa.	do	15		2	3	·i	i			::					
awrence, Mass	do	29 .		4 .	ا-ي-ا		6		1		i  :				
vnchburg. Va	do	14 .		3	2 5	2	- <b>-</b>		1 2		•-	1  -	-	-;	•••
ladison, Ind	Sept. 10	i .													
lanchester, N. H	do	35 .			2				3			1 .		-	•••
Iarinette. Wis	do	1			6 2	1	••••	• • • •	• • • •		-	-	-		
lassilon, Ohio	do	î							i			:::: :			•••
Do Mass	Sept. 3	6 .	-	.;.		1		· • · ·	1			.	-	-	•••
lilwaukee, Wis	do	90	18	6	i4	2	14	4	14	••		···;·	• -	6	i i
lobile, Alá	do	23 .		3	2	ĩ	2		ì					i	ī
loune, III	do	8 .		-	-:-		;.						-	-	•••
lount Vernon, N. Y.	do	10			1		1	••••	1	• • •	· <b>-  -</b> ·	•••••	-	-	•••
anticoke, Pa	do	3 .			2				3	··i					•••
ew Redford Mass	do	102	10   2	20	2 3	3	10		25	į			•		2
ewburyport, Mass	do	35	4	3 2	3		3	• • • •	1	1		• • • • • •			•••
,		- 1.			' -		,		• • • • !		-1		!		

#### MORBIDITY AND MORTALITY-Continued.

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

CHA	Week ended—	Total deaths from		ber- osis.	ph	'y- loid ver.		rlet ør.		ph- ria.	Meas	les.	i	ng ng ngh.
Cities.		all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Orleans, La	Sept. 10	126	20	18	9	3	2		5	2	4			
Newton, Mass	do	7	1		2		1		1					
New York City, N. Y	do	1,402	553	154	179	14	56	6	152	14	60	8	20	'
Niagara Falis, N. Y	do	13		••••	2		• • • •							
Norristown, Pa	do	4	3	:-	5	1							3	
Northampton, Mass	do	6	•••	1		• • • •								
Orange, N. J	do	6	3			:-								
Paducah, Ky	qo	12 4	• • • •			1								
Palmer, Mass		4	••••	• • • •		1								
Peekskill, N. Y Pittsfield, Mass		6	'n	• • • • •			• • • •							
Plainfield, N. J.	do	4	•	·i	٥	••••	1							
Portsmouth, N. H.	do	*	••••	•	i	••••	•	••••	••••			••••	••••	
Portsmouth, Va		12			•				••••			••••		
Providence, R. I	do	68	••••	4	8	i	4		2	i		i	i	
Reading, Pa	do	32	i	2	8	3	ī		ī		3		17	
Rock Island, Ill	do	8			ĭ		1		5					
St. Louis, Mo	do	186	24	19	34	4	20	6	15		11	3	13	2
Selt Lake City Utah	ob	29			20	3	4	1	5	1			1	
San Antonio, Tex	do	5		4	4	1			2					
Schenectady, N. Y	Sept. 3	22	6	2	3				2				1	1
Somerville, Mass	Sept. 10	18	2	1	1				1	1				<b>.</b> .
	do	31	1	1	1		1		4				2	, 1
ľacoma, Wash	Sept. 3	19		!	1	1			3					
Faunton, Mass		17	1											
Ferre Haute, Ind	do	16		2	-::-	:-	2		3					
Foledo, Ohio	do	43	:-	4	27	3								
Waltham, Mass	do	9	1	2	3		1		1	••••			••••	• • • •
Warren, Óhio	do	ō	}	• • • •	2									
Weymouth, Mass	Aug. 27	5				••••		••••					• • • •	
Do		5												
Do		11	··i		··i					••••			• • • •	• • • •
Wheeling, W. Va	Sept. 3	4	1			••••	- 1		1	!			••••	
Do	Sept. 10	14			-		- 1	••••	•	••••				
Wilkes-Barre, Pa	do	19	3	i	ii						5			• • • •
Wilkinsburg, Pa	· do	3	i	i l										••••
Williamsport, Pa	do	7	*	•				••••	··i'					••••
Worcester, Mass	do	51	7	2	11	;			13					
anesville, Ohio	do	8	'	ĩ	3	- 1	-	••••	2					••••
auesvine, Onio		•	• • • •		.,							• • • •	• • • • •	••••

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

California.—Month of July, 1910. Population, 2,037,929. Total number of deaths from all causes 2,576, including typhoid fever 49, measles 12, scarlet fever 4, diphtheria 21, tuberculosis 349.

FLORIDA.—Reports from the state board of health show as follows: Week ended September 17, 1910. Typhoid fever present in 3 localities with 9 cases, diphtheria in 5 localities with 7 cases, malaria in 6 localities with 15 cases, tuberculosis in 3 localities with 9 cases.

Week ended September 24, 1910. Typhoid fever present in 5 localities with 7 cases, diphtheria in 1 locality (Jacksonville) with 1 case, malaria in 10 localities with 16 cases, tuberculosis in 5 localities with 5 cases.

INDIANA.—Month of July, 1910. Population, 2,732,550. Total number of deaths from all causes 2,947, including typhoid fever 45,

diphtheria 9, tuberculosis 370. Cases reported: Typhoid fever 246 in 47 counties, diphtheria 82 in 30 counties.

Iowa.—Month of August, 1910. Population, 2,192,608. Total number of deaths from all causes 1,785, including typhoid fever 37, measles 2, scarlet fever 4, diphtheria 14, tuberculosis 116.

MASSACHUSETTS.—Week ended July 2, 1910. Population, 2,401,-701. Total number of deaths from all causes 741, including typhoid fever 4, measles 4, scarlet fever 6, diphtheria 9,5 tuberculosis 72.

Week ended July 9, 1910. Total number of deaths from all causes 797, including typhoid fever 4, measles 5, scarlet fever 4, diphtheria 5, tuberculosis 67.

Week ended July 16, 1910. Total number of deaths 941, including typhoid fever 4, measles 6, scarlet fever 4, diphtheria 12, tuberculosis 69.

Week ended July 23, 1910. Total number of deaths 812, including typhoid fever 4, measles 2, scarlet fever 2, diphtheria 9, tuberculosis 70.

Week ended July 30, 1910. Total number of deaths 909, including typhoid fever 6, measles 4, scarlet fever 1, diphtheria 2, tuberculosis 62.

MINNESOTA.—Month of June, 1910. Population, 1,751,395. Total number of deaths from all causes 1,641, including typhoid fever 18, measles 27, scarlet fever 28, diphtheria 62, tuberculosis 175.

Texas—Fort Worth.—Month of August, 1910. Population, 60,000. Total number of deaths from all causes 61. Cases reported: Typhoid fever 12, scarlet fever 1, diphtheria 1.

UTAH.—Month of August, 1910. Population, 346,873. Total number of deaths from all causes 264, including typhoid fever 10, scarlet fever 1, diphtheria 3, tuberculosis 7. Cases reported: Typhoid fever 200, smallpox 11, measles 8, scarlet fever 124, diphtheria 21, tuberculosis 9.

# FOREIGN AND INSULAR.

#### ECUADOR.

#### Yellow Fever and Plague.

Passed Assistant Surgeon Parker at Guayaquil reports, September 5:

During the month of August, 1910, yellow fever and plague were

reported in Ecuador as follows:

Yellow fever.—There were 13 reported cases of this disease for the month, with 3 deaths. This is about the usual August number and mortality. The disease was also reported in Milagro, with 2 cases and 1 death, and in Duran, a small town on the river opposite Guayaquil, 1 case. Both of the latter towns are favorable for the spread of the disease, but contain few nonimmune inhabitants.

Plague.—This disease showed a marked increase for the month, there being reported 26 cases, of which 5 died. One case was also reported at Rocafuerte. The disease is apparently of a milder type

than in previous seasons.

During this same period there were reported 229 deaths, which, with an estimated population of 70,000, would give a mortality of 39.25.

#### FRANCE.

#### Marseilles-Cholera.

Consul-General Gaulin reported, October 4, to the Department of State:

Two fatal cases of cholera at Marseilles among immigrants from Greece. Necessary measures have been taken by the authorities. Persons in contact with the patients have been isolated.

#### GERMANY.

#### Measures Against Importation of Cholera by Waterways.

Consul Teichmann at Stettin reports, September 8:

The president of the province of West Prussia issued the following

order, September 2:

On all rafts entering the province by the River Vistula payment and release of the raftsmen who wish to leave the raft at the city of Thorn shall either be controlled on the raft or at certain specified places. After their discharge these raftsmen are to be transferred in groups to the railway depot of Thorn and from there in special cars by rail to Alexandrova in Russia. All such rafters are to obey strictly the rules attending this regulated return to Russia. Any violations of these regulations are punished with fine or corresponding imprisonment.

Another bacteriological station for the examination of patients, suspects, and suspected clothing, etc., has been recently established at the city of Thorn, so that the River Vistula is now controlled

bacteriologically as far as the Prussian frontier.

At the bacteriological station at Schillno, where the Vistula crosses the border line of Prussia, three Russian subjects, a rafter and his two children, were recently placed under quarantine, and the raft and rowing boat were thoroughly disinfected after bacteriological examination established the presence of the germ of cholera on the raft. Thus far no symptoms of the disease have been observed on these persons, notwithstanding the positive identification of the germ. The extension of bacteriological examinations to clothing, effects, and all objects in immediate contact with the suspect, marks an advance in sanitary control worthy of serious attention by all health organizations.

A vigilant control of all immigration from Russia, is continued on the Prussian border line and also at the emigrant station of Ruhleben, near Berlin. This double control is of importance to Russian immigration at New York and at ports of the Gulf of Mexico, because almost all of these immigrants come by the route via Ruhleben and Bremen or Hamburg and only a very small percentage, if any, via Cherbourg, Havre, Antwerp, or Amsterdam.

#### HAWAII.

Last case of human plague at Honolulu occurred July 12, 1910.

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

At Hilo the last case of human plague occurred March 23, 1910.
The last plague-infected rat was found at Piihuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, September 6:

#### HONOLULU-Plague-prevention Work.

#### Week ended September 3, 1910.

Week citied September 5, 1310.	
Total rats and mongoose taken.	807
Rats trapped	732
Mongoose trapped	18
Rats found dead (Mus rattus 2, Mus musculus 1)	3
Rata shot, from trees	27
Examined bacteriologically	682
riague raus	0
Classification of rats trapped:	
Mus alexandrinus.	96
Mus musculus	302
Mus norvegicus	65
Mus rattus	296
Classification of rats shot from trees:	
Mus alexandrinus.	15
Mus rattus	8
Average number of traps set daily	1, 738
Week ended September 10, 1910.	
	889
Total rats and mongoose taken	682 642
Total rats and mongoose taken	642
Total rats and mongoose taken	642 12
Total rats and mongoose taken  Rats trapped  Mongoose trapped  Rats found dead  Rats shot from trees	642
Total rats and mongoose taken  Rats trapped  Mongoose trapped  Rats found dead  Rats shot from trees	642 12 0
Total rats and mongoose taken  Rats trapped  Mongoose trapped  Rats found dead  Rats shot from trees	642 12 0 28
Total rats and mongoose taken	642 12 0 28 563
Total rats and mongoose taken  Rats trapped  Mongoose trapped  Rats found dead  Rats shot from trees	642 12 0 28 563
Total rats and mongoose taken Rats trapped Mongoose trapped Rats found dead Rats shot from trees. Examined bacteriologically Plague rats Classification of rats trapped: Mus alexandrinus Mus musculus	642 12 0 28 563 0
Total rats and mongoose taken	642 12 0 28 563 0 75 239 69
Total rats and mongoose taken Rats trapped Mongoose trapped Rats found dead Rats shot from trees Examined bacteriologically Plague rats Classification of rats trapped: Mus alexandrinus Mus musculus Mus norvegicus Mus rattus	642 12 0 28 563 0 75 239
Total rats and mongoose taken Rats trapped Mongoose trapped Rats found dead Rats shot from trees. Examined bacteriologically Plague rats Classification of rats trapped: Mus alexandrinus Mus morvegicus Mus norvegicus Mus rattus Classification of rats shot from trees:	642 12 0 28 563 0 75 239 69 258
Total rats and mongoose taken Rats trapped Mongoose trapped Rats found dead Rats shot from trees. Examined bacteriologically Plague rats.  Classification of rats trapped: Mus alexandrinus Mus musculus Mus norvegicus Mus rattus.  Classification of rats shot from trees: Mus alexandrinus	642 12 0 28 563 0 75 239 69 258
Total rats and mongoose taken. Rats trapped. Mongoose trapped. Rats found dead. Rats shot from trees. Examined bacteriologically. Plague rats. Classification of rats trapped: Mus alexandrinus. Mus musculus. Mus norvegicus. Mus rattus. Classification of rats shot from trees: Mus alexandrinus. Mus rattus.	642 12 0 28 563 0 75 239 69 258 6
Total rats and mongoose taken Rats trapped Mongoose trapped Rats found dead Rats shot from trees. Examined bacteriologically Plague rats. Classification of rats trapped: Mus alexandrinus Mus musculus Mus norvegicus Mus rattus. Classification of rats shot from trees: Mus alexandrinus Mus rattus.  Mus rattus.	642 12 0 28 563 0 75 239 69 258

#### INDIA.

#### BOMBAY-Improved Health Conditions.

Consul Dennison reports, August 30:

In contrast with the unhealthy conditions which prevailed during the month of July, Bombay is now enjoying a period of almost record

healthiness for this season of the year.

In the week ended August 30 there were 566 deaths in the city compared with 610 in the previous week, 593 in the corresponding week of last year, and a quinquennial average of 653. Plague has dropped to 25 deaths a week, which is approximately the mean for this season. Smallpox, for the first time for nearly a year, does not figure in the mortality returns at all. The average weekly number of deaths from cholera at this time of the year is 27, and last week there were only two.

The less noteworthy diseases have also diminished, so that the comparatively small total mortality represents an improvement of

health in evey direction.

The death rate of 30.09 is probably an exaggeration, for there is no doubt that the population of the city has largely increased since the last census was taken. Expert observers believe that the inhabitants of Bombay now number considerably over a million. The health of the population is, therefore, even considerably better than the figures show.

Changes of weather and other influences cause large fluctuations, but a steady tendency to improvement is manifesting itself, and there are good reasons to attribute it to a higher sanitary understanding

on the part of the people.

#### CALCUTTA-Cholera and Plague.

Acting Assistant Surgeon Allan reports, September 1:

During the week ended August 13, there were 13 deaths from cholera and 4 from plague in Calcutta; in all Bengal, 102 cases of plague, with 70 deaths; in all India, 1,543 cases of plague, with 1,037 deaths.

#### ITALY.

#### Status of Cholera.

Surgeon Geddings reports, September 12 and 19:

During the week ended September 10, 1910, cholera was reported in Italy as follows:

Trani has been almost entirely cleared up, and but for an unexpected recrudescence Barletta would have made an almost equally favorable showing. Trinitapoli, in the Province of Foggia, is now the greatest danger point, but the measures being taken there are

very active, and it is believed will soon show results.

Situation in Naples.—Cases and deaths from gastro-enteritis continue. For the period from August 24 to September 10, 1910, there have been 34 deaths from this cause alone, and while the death rate has been very high, the exact number of cases is not known. The cases are rather widely scattered over the city, and so far as reported there have been no secondary cases in any family nor dwelling in which primary cases have occurred.

The situation with regard to emigration continues unchanged. There have been no suspicious cases among those embarking or awaiting embarkation. Examinations have been made of the dejects of 150 individuals coming from actually infected districts and held under observation upon the quarantine ship, and not a single bacillus carrier has been found. These emigrants were destined not only

for the United States, but also for points in South America.

The Naples water supply.—Daily bacteriological examinations are made of the Serino water supplied to the city. A condition of remarkable purity is reported as a result of these examinations. On an average each cubic centimeter of water contains about 8 colonies, of which only 2 or 3 are liquefiers of gelatine. There is an entire absence of intestinal organisms.

#### WEEK ENDED SEPTEMBER 17, 1910.

	Cases.	Deaths.
Province of Bari: Andria.	2	2
Barletta	13 6	5 1
Province of Foggia:	21	8
Cerignola. San Ferdinando. Trinitapoli	2 9	3 1 5
	15	9

The improvement in the condition is evident from the figures. Centers of infection are gradually being cleaned up and eliminated

and the number of cases is diminishing.

In Trani the epidemic is reported to be on the decline. The cities of Ruvo and Bitonto have been declared free from cholera. Great difficulty is experienced in the eradication of the infection from Barletta, where several cases are daily reported. Disinfection is carefully carried on in the streets and especially in two wards of the city, one of which is inhabited by fishermen, the other by peasants.

The condition in Naples.—This continues unsatisfactory, but I think shows an improvement over that reported last week. In a general way it may be said that the cases of "gastro-enteritis" are fewer in number, and that the mortality from them is not so pronounced. The hopeful feature of the absence of secondary cases in houses and families where primary ones have occurred continues.

The detention upon the quarantine ship of persons from the infected districts continues. No suspicious cases have occurred, and bacteriological examinations have failed to reveal the occurrence of a single "bacillus carrier."

On October 5 Doctor Geddings further reported:

From September 17 to October 2, in Bari and Foggia, 71 cases of cholera with 33 deaths. In Naples, from September 25 to October 2, 132 cases with 68 deaths; October 4, 8 cases, 5 deaths. In other provinces, 36 cases.

Cholera in Sardinia.

The following information was received from the Department of State, October 3:

Cholera in Sardinia. Four cases, 1 death.

#### Precautions Observed on Italian Steamships.

Doctor Geddings reports, September 17:

As a rule vessels from Genoa arrive at Naples in the early morning, take on their passengers and cargo, and sail for the United States in the afternoon or evening of the same day. The crew are fully occupied on board, and there is a minimum of communication with the shore. Some vessels make a longer stay in the port. Owing to the lack of pier room these vessels lie in the open harbor and shore leave is not usually granted. All vessels carrying passengers are provided with one or more medical officers. As the shortest time of passage from this port to New York is about ten and one-half days, a period far in excess of the period of incubation of cholera, any infection among passengers or crew in all probability would be recognized and all precautions taken before reaching New York. In addition to medical officers all vessels carrying Italian passengers carry a medical officer of the Italian army or navy. These officers are on board for the purpose of protecting the interests, sanitary and otherwise, of the passengers, and are vigilant in the discharge of their duties.

#### NAPLES-Examination of Emigrants.

Doctor Geddings further reports:

Vessels inspected at Naples and Palermo week ended September 10.

#### NAPLES.

Date.	Name of ship.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.	
Sept. 6 6 8 9	Luisiana	New Yorkdo	313 231 609 633 181	50 20 110 140 20	320 260 830 850 210
	Total		1,967	340	2,470
	·	PALERMO.		•	
Sept. 7	Luisiana	New Yorkdo	133 215	275 500	100 150
	Total		348	775	· 250

#### Rejections recommended.

#### NAPLES.

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Other causes.	Total.
Sept. 6 6 8 9	Venezia. Luisiana. Ancona. Oceania. Königin Luise.	6 14 18 3	3 2 3 1	6 2 2 6 3	2 2 12 3 2	2/ 12 3/ 3/ 3/
	Total	53	9	19	21	103
	P	ALERMO.		<u> </u>		
Sept. 7	Luisiana			9 15	2 2	2:
	Total	27		24	4	58

#### JAPAN.

#### Cholera and Plague on Steamships.

Surgeon Irwin at Yokohama reports, September 5:

The steamship Suma Maru, from Shanghai, arrived in the harbor of Chinampo, northwest coast of Korea, August 26, with 2 cases of

cholera on board. One case ended fatally August 27.

The steamship Manchuria arrived at quarantine at Yokohama August 31 with a case of plague on board. The case ended fatally on the same date. The patient was a Chinese who had embarked at Hongkong. The vessel was held in quarantine and released September 3. All on board were bathed and personal effects were disinfected. The steerage quarters were washed with carbolic-acid solution. The Manchuria sailed for Honolulu September 4 after a thorough examination. All steerage passengers and members of the crew were examined for glandular enlargement.

#### Typhoid Fever and Dysentery.

Sanitary conditions in Kanagawa prefecture, according to official reports, are in a most unsatisfactory state at present. Typhoid fever is on the increase, especially in the Odawara district. The number of cases now reported is 554, an increase of 181 over the highest of last year. In Odawara 190 new cases were reported in three days. The cases of dysentery, however, are less than the record for the same period of last year, the number of cases reported being 214 against 287.

The authorities are taking all the precautions possible to prevent any

further spread of typhoid and dysentery.

#### MEXICO.

#### Yellow Fever at Campeche.

The following information, dated October 1, was received from the president of the superior board of health of Mexico:

Three cases of yellow fever at Campeche. Suppressive measures

are being taken.

#### RUSSIA.

#### Status of Cholera.

Acting Assistant Surgeon De Forest, at Libau, reports, September 11: During the week ended September 9, 345 cases of cholera, with 122 deaths, were reported in the city of St. Petersburg and suburbs; in all Russia, exclusive of St. Petersburg, 11,894 cases, with 6,571 deaths.

LIBAU.-Smallpox-Examination of Emigrants.

Doctor De Forest further reports:

During the three weeks ended September 4, 1 case of smallpox was reported at Libau. There are 5 cases present. For the steamship Lituania, sailing September 13, 1,025 passengers have been examined.

#### ODESSA-Cholera and Plague.

Consul Grout reports, September 13: During the week ended September 9, 9 new cases of cholera with 7 deaths were reported. At the close of the week there were 10 cases in the hospital. The total number of cases to date is 546, with 301 deaths.

During the period from September 5 to 10, inclusive, 16 new cases of plague with 5 deaths were reported. At the close of the week there were 44 cases in hospital. The total number of cases to date is 98, with 23 deaths.

#### VENEZUELA.

#### Yellow Fever at Caracas.

Acting Assistant Surgeon Kellogg at La Guaira reports, September 17:

Yellow fever is present at Caracas

#### ZANZIBAR.

#### ZANZIBAR-Smallpox-Examination of Rats for Plague Infection.

Consul Garrels reports, August 10, 16, and 25:

During the three weeks ended August 21, 23 deaths from smallpox were reported. From June 8 to August 21 there were 125 cases of smallpox, with 57 deaths. The total number of persons vaccinated during the same period was 15,233.

From August 1 to 21, 3,293 rats were collected and examined for

plague infection. No plague-infected rats were found.

# CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

#### Reports Received During Week Ended October 7, 1916.

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 CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia: Matrah	Sept. 29			Present.
Gonoyo.  Mohacs.  Nagybajes.	Sept. 3-6 Aug. 25-26 Sept. 7	1 1	1	
Possony. Vienna Vorosmarton.	Aug. 24–30. Sept. 4–10. Aug. 19–30.	1 3 1	1 1 1	From the steamer Rogensburg.

# CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received During Week Ended October 7, 1910. CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
France:				
MarseillesIndia:	Oct. 4	2	2	Among immigrants from Gresce
Bombay	Aug. 24-30		. 2	
Calcutta	Aug. 7-13		13	
Madras Rangoon	Aug. 7-13		16	
Italy:	i	i	1	
Naples	Sept. 25-Oct. 4	140	73	
Apulia, department— Province of Bari				Sept.17-Oct. 2: Provinces of Bar
Andria	Sept. 4-10	6	4	and Foggia, cases 71, deaths 33
Barletta	Sept. 4-10 Sept. 4-17	47	21	
Canosa	Sept. 4–10 Sept. 4–17	3 15	7	
Trani	Sept. 4-10	2	4	
Province of Foggia—	4.	10	8	
Cerignola	do	5	9	
Ortanova	do	3	2	
San Ferdinando	do	6	14	
Trinitapoli	do Oct. 3	31 4	19 1	
ava:		•	1 1	
Batavia	Aug. 14-20	16	7	
Chinampo	Aug. 26-27	2	1	From steamship Suma Maru.
lanchuria:	A 01 07	2		
Dainy	Aug. 21–27 Aug. 21–27	12,510	6,376	
City of St. Petersburg	do	435	178	
City of Cronstadt The following are govern-	do	31	27	
mante.	ľ		1	
St. Petersburg	do	68	37	
Vologda	do	42	23	
Novgorod	do	1 38	17	
Minsk	do	63	31	
Mohiev	do	22	8	
Vitebsk	do	20 10	5	
Novgorod Minsk Mohlev Vitebsk Smolensk Podolia Volynia Kief Tcherniga Poltava Kharkov Orel Koursk	do	89	46	
Volynia	do	1	1	
Tohornigo	do	846 93	333 34	
Poltava	do	163	69	
Kharkov	do	50	23	
Voumb	do	284	19 147	
Koursk. Voronega. Tambov.	do	1,706	801	
Tambov	do	341	185	
Penza	do	2		
Riazan	do	179	96	
Toula	do	45	12	
Tver	do	137	86	
Tyoislav. Kostroma. Nijni-Novgorod. Kazan. Simbirsk.	do	234	158	
Nijni-Novgorod	do	115	50	
Kazan	do	293	137	
Samara	do	503 876	251 472	
Saratov	do	400	191	
Astrakhan	do	122	55	
Stavropol	do	48 59	14 29	
Perm. Viatka. Orenbourg. Ekatherinoslaw.	do	22	8	
Orenbourg	do	299	132	
Ekatherinosiaw	do	822 193	533 114	
Tauride	do	564	243	
Black Sea	do	7	1	
Baku	do	91	56	
Baku	do	243 48	56 85 29 65	
Erivan.	do	205	65	
Tomsk. Tobolsk.	do	23 20	5	
			8	

## Reports Received During Week Ended October 7, 1910.

CHOLERA—Continued.

	·	1	1	1
Place.	Date.	Cases.	Deaths.	Remarks.
Russia, general—Continued.				
Russia, general—Continued. Territory of—	. Aug. 21-27	10	10	
TourgaThe Oural		18 15	10	
Mh - Th	1 3-	1 000	538	
Kuban	do	657	417	1
Terek	. do	127	90	1
Dagnestan		187 167	97 72	
Kuban. Terek. Daghestan. Kars. Syr-Daria. Akmolinsk.	do	24	ii	
Akmolinsk	do	218	131	
rrelecture of—	i .	1	ı	i
Kertchienikale	. do	6	2	· <del> </del>
Sebastopol Rostoff-on-Don	do	48	15	1
Odessa	. do	19	23	1
Baku		81	46	
Siam:	Turler 10 Amer 12	62		
Bangkok Straits Settlements:	July 19-Aug. 13	63	63	
Singapore	. Aug. 7–13	6	8	
	YELLOW	PPVE	PD	<u> </u>
	1 ELLOW	FEVE	. R.	
Brazil:				
Manaos	Aug. 21-27	2	2	
Para	Sept. 4-10	8	4	
Mexico: Campeche	Oct. 1	3	•	
Venezuela:	000. 1	٠		
Caracas	Sept. 17		l	Present.
			1	
	PLA	GUE.		
Chile, general	Jan. 1-May 31 Aug. 21-27	104 1	35 1	
Iduidae	Aug. 21-21		•	
Chang Chow Fu, district	June 4			Epidemic.
Hongkong	Aug. 7-13	1	1	
india:	A 24 20		25	
Bombay	Aug. 24–30 Aug. 7–13	•••••	. 4	
Kurrachee	Aug. 21-27	14	14	
Rangoon	Aug. 14-20		19	
apan:				0
Yokohama	Aug. 31	1	1	On steamship Manchuria from
Mauritius	July 1-29	8	8	Hongkong.
Russia:	July 1-20		"	•
Moscow	Aug. 28-Sept. 3	1		
Odessa	Aug. 28-Sept. 10	30	8	
Siam: Bangkok	July 19-Aug. 13	4	3	
	SMALL	POY	<u> </u>	
	1 1			
Argentina: Rosario	July 1–31	2	2	
Belgium: Antwerp Ghent	Sept. 4-10 Sept. 4-10	1	i	
Brazil:	l '		•	
Manaos	Aug. 21-Sept. 3			Present.
Para	Sept. 4-10	3		
anada: Halifax	Sept. 18-24	1	1	
hile:	· - I	-		
Valparaiso	Aug. 28-Sept. 3	30	•••••	•
Shanghai	Aug. 15-21	2		
198				

# Reports Received During Week Ended October 7, 1910.

#### CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Germany, general	Sept. 4-10	1		
India: Madras	Aug. 20-26		3	
lava: E Batavia	Aug. 14-20	. 1		
Mexico: Aguascalientes	Sept. 11-17		2	
Netherlands: Rotterdam	Sept. 4-17		1	
Portugal: Lisbon	Sept. 4-10	28		
Russia: Libau	Aug. 29-Sept. 4			
MoscowRiga	Aug. 28–Sept. 3 Sept. 6–10	15		*
St. Petersburg	Aug. 14-Sept. 3	57	19	
Vladivostok Madrid.	July 27-Aug. 13 Aug. 1-31		1 3	
Vigo Straits Settlements:	Sept. 12–18		2	
Penang Singapore	Aug. 14–20 Aug. 7–13	10 19	4 8	
anzibar: Zanzibar	Aug. 1-21	30	16	

#### Reports Received from June 25 to September 30, 1910.

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

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Austria-Hungary, general	Sept. 13			In 8 localities on Danube between Kressburg and Mohacs.
Galicia—		1 .	1 -	
Padwoloczyska	June 20		1 1	From Russia.
Vienna	Aug. 21-27	. 2	1	
China:	T-1- 17 A 10			
AmoyFatshan	July 17-Aug. 13	5	5	The Adams to
ratsnan	July 1	2		Epidemic.
Hankow	Aug. 7-13	9		T
Hongkong	July 10-16,	9	6 254	Imported.
Swatow	May 10-June 6		204	In vicinity from 3,000 to 4,000 deaths.
Ceylon	July 3-9	1	1	deaths.
	_			
Kalthoff	Sept. 14	10	6	Suburb of Marienburg.
Ruhleben (near Berlin)	Tune 22-27	2	2	Among Russian emigrants.
Spandau (near Berlin)	Aug. 29		1 1	Among Russian emigrants.
India:	Aug. 20	-	-	
Bombay	June 8-Aug. 23	İ	23	
Calcutta	May 1-Ang 6		438	
Kurrachee	July 24–30	1	ı	
Madras	May 21-Aug. 19	•	7	
Moulmine	May 1-7	1	l i	
Moulmine Negatapam	Apr. 16-Aug. 12		199	
Rangoon.	May 8- July 30		14	
Italy:			(	
Naples	Sept. 26	1		
Rome	Sept. 27	4	1	•
Province of Bari— Andria.	•			
Andria	Aug. 17-Sept. 4	29	21	
Barletta		114	77	
Bisceglie	Aug. 17-20	2	2	
Bitonto	Aug. 17-Sept. 4	3	1	
Canosa	Aug. 17-Sept. 4	7	2	
Grumo Appula	Aug. 17-27			
Molfetta	Aug. 17-Sept. 4	21		
Ruvo	Aug. 17-27	.3	1	
Spinazzola	Aug. 17-Sept. 4	15	8	
Trani	Aug. 17-Sept. 4	91	67	

## Reports Received from June 25 to September 30, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks
Italy—Continued.				
Province of Foggia—	İ	i	1 .	
Cerignola	Aug. 17-Sept. 4	. 11	5	
Cerignola Margherita di Savoia	Aug. 17-Sept. 4	. 16	15	
Ortanova	A 11g. 17-27	. 1		<b>.</b>
San Ferdinando	. Aug. 17-Sept. 4	. 9		
_ Trinitapoli	Aug. 17-27	. 41	22	
Province of Potenza—	l	_	1 -	
Genzano	Aug. 17-27	. 2	1 1	
Palazzo San Gervaso	Aug. 17-27	. 1	1	
Japan:	T-1 99 90	3		
Awajii Island	July 22–28	3	1	•  •
Koho	Aug. 5 Sept. 21		i .	22
Moii	Aug. 13	1		
Kobe Moji Nagasaki.	Aug. 15	i		
	ing. io	1 *		Shanghai.
Osaka	Aug. 6-13	1		
Yokohamaava.	Aug. 22	ī		On s. s. Siberia from Shanghai.
ava		J		June 18, present in extreme east
			1	ern part. July 30, disappear
		l	ł	ing from interior and from th
			!	coast.
Batavia	May 8-Aug. 13 May 8-June 4	300	212	1
SamarangSoerabaya	May 8-June 4	187	152	Mainly among natives.
Soerabaya	May 8-July 15	103	56	1
Vetherlands:		1 _	į	
Rotterdam	July 23-29	1		From a vessel from Russia.
Persia:	Tuden 1 6	20	6	
Ardabil	July 1-6	20	3	
Enzeli	Aug. 20	10		
Erzeroum, province Hassan Branch	Tuly 1112	10	8 2	
Philippine Islands	July 11-13			
hilippine Islands: Manila	May 22-Aug. 6	122	89	July 29, one fatal case from s. s
Provinces—	may 22 1146. 0	122		Batangueno.
Batangas	May 1-Aug. 6	128	57	Duran-Buren
Batangas	May 1-Aug. 6	678	472	
Cavite	Jinne 12–30	3	2	
Mountain Province	June 26-July 30 June 26-Aug. 6 Apr. 24-Aug. 6	4	3	
Nueva Ecija	June 26-Aug. 6	329	223	İ
Pampanga	Apr. 24-Aug. 6	232	211	
Pangasinan	Apr. 24-Aug. 6	3,441	2,612	
Pangasinan	June 12-Aug. 6	114	74	
Tarlac Union	May 8-Aug. 6 May 1-July 30	108	79	
Union	May 1-July 30	3	1	
Roumania:	Somt 16		,	Am Italian saaman
Galatz	Sept. 10	1	1	An Italian seaman.
tusta (wai in an itusta)		• • • • • • •		May 8–Sept. 3—cases, 170,353; deaths, 77,466. June 25, present in districts of Igoumen, Mazir, Pinsk, Retchitsk, and Sloutsk
4				in districts of Igoumen, Mazir.
				Pinsk, Retchitsk, and Sloutsk
Amolinsk, territory	Aug. 7-20	29	12	
Archangel, government—				• •
Archangel Astrakhan, government	July 17-23	1		
Astrakhan, government	July 3-Aug. 20	1,424	635	
Raku government	May 29-Aug. 20	916	452	
Baku	July 3-Aug. 20	692	275	
Baku		55	16	
Black Sea, province	July 3-Aug. 13	459	140	
Cronstadt	July 17-Aug. 20	145	63	
Daghestan, territory Don, territory	July 17-Aug. 20	503	198	
Don, territory	May 29-Aug. 20	18,504	5,227	
Rostov on the Don	June 19-Aug. 20	2,997	1,006	
Erivan, government	July 3-Aug. 13 July 17-Aug. 20 July 17-Aug. 20 July 19-Aug. 20 May 29-Aug. 20 June 19-Aug. 20 July 24-Aug. 20	334	187	
Esthonia, government— Reval	i	. 1		
Keval	July 24–30	1		
Finland	Aug. 6	2	3 (	•
Kaluga, government	July 17-Aug. 0	21		
Kars, territory	Mor 20 Aug 6	213	99	
Kharkov, government Khazan	July 17-Aug. 6 Aug. 7-20 May 29-Aug. 6 June 26-Aug. 13	2,179	870 540	
Khareon government	Mon 20 Aug 8	1,314	549 2 541	
Kherson, government Odessa	May 29-Aug. 6 May 29-Aug. 20	5,780 480	3,541 47	June 18-20: Fatal case on steam-
Jugasa	may 25-Aug. 20	100	31	ship Colenzo. Aug. 1-30: Cases
	1		1	100 dootho 70
. i				120. deaths 78.
Kief, government Kostroma, government	May 29-Aug. 20	1,365	494	126, deaths 78.

#### Reports Received from June 25 to September 30, 1910.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia—Continued.				
Koutais, government	Aug. 7-13	159	166	
Kuban, government	May 29-Aug. 20	18,166	9,487	
Kursk, government	June 26-Aug. 20	2,992	965	
Livonia, government—		j.	1	<b>!</b>
Riga	Aug. 1-6	. 1		.
minsk, government	May 29-Aug. 20	301	96	
Mohilev, government	May 15-Aug. 20	128	57	1
Moscow, government	July 24-Aug. 20	61	37	
Moscow	July 10-30	10	5	
Nizhni Novgorod, govern-	July 3-Aug. 13	1,172	443	
ment.	Tul= 17 Aug 90	000		1
Novgorod, government	July 17-Aug. 20		83	
Olonetz, government	Aug. 14-20	275	104	1
Orel, government	Tuly 17_ Ang 12	637	328	
Orenburg, government	Tuly 2-0	22	8	1
Perm government	July 3-9	55	19	
Perm, government Podolia, government	Inly 2_Ang 13	327	114	
l'ensa government	Inly 10-Aug. 13	401	138	1
Perm, government	Into 24_30	41	15	1
Poltava, government	May 29-Aug. 13	2,307	91?	1
Pskov, government	Aug. 14-20	2,00	i	
Rjasan government	July 3-Aug. 13	1,253	477	1
St. Petersburg, govern-	July 10-Aug. 20	258	112	
ment—	vary 10-114g. 20			
St. Petersburg	June 19-Aug. 20	1,904	836	
Samara, government	June 19-Aug. 20	5,795	2,527	ŀ
Saranul government	June 19-Aug. 20 July 17-30	530	283	
Saratov, government	June 19-Aug. 20	3.150	1,239	
Simbirsk, government	June 19-Aug 20	1,877	814	
Saratov, government Simbirsk, government Smolensk	July 24-Aug. 20	19	12	
Stavropol, government	June 26-Aug. 13	3,641	1,766	
Syr Darya	July 24-Aug. 6	5	3	İ
Syr Dârya Tambov, government		2,607	1,217	
Taurida, government	May 29-Aug. 20	3,658	1,788	
Kertsch	May 29-Aug. 20	464	210	
Sebastopol	June 19-Aug. 20	35	21	
Theodosia	June 19-25			Present.
Terek, territory	June 19-Aug. 13	506	295	
Tiflis, government	July 17-Aug. 13	741	298	
_ Tiflis	June 19-July 16	113	41	
Techernigov	May 29-Aug. 13	879	313	
Tambov, government. Taurida, government. Kertsch Sebastopol Theodosia. Terek, territory. Tiflis, government. Tiflis. Techernigov. Tobal. Trans-Caspian, territory.	Aug. 7-13	14	. 8	
	July 3-Aug. 13	57	24	
Trans-Caucasia—				
Tschernomorsk, dis-				
trict—	Turno 10 Turlor 2			
Novorossysk	June 19-July 3	7 7	6 2	
Tula, government	July 10-23	10	4	
Tula, government. Turgai, territory Tver, government. Ufa, government. Vitebsk, government. Veronesch, government. Vietbe	Tuly 24_Aug 20	20	12	
Type gavernment	July 24-Aug. 20	7	12	
I fo government	July 10 Aug 12	407	251	
Vitabel government	May 20_Aug 20	41	9	
Varonesch government	May 20-Aug. 20	953	429	
Viatka	Inly 24-Ang 13	190	100	
Vladimir, government	July 24-Aug. 13 July 24-30.	7	100	
Volhynia, government	July 3-30	38	19	
Vologda, government	Aug. 14-20	69	47	
Vologda, government Warsaw, district	Aug. 25-Sept. 2	25	28	
Yaroslav, government	July 24-Aug. 20	762	378	
Yaroslav	July 10-23	25	13	
YaroslavYekaterinislav, govern-	May 29-Aug. 20		5,628	
ment.		,	-,	
Yelisavetpol	Aug. 7-13	2	1	
ım:		- 1	- 1	
Bangkok	May 4-July 18	648	641	
raits Settlements:	,			
Singapore	May 8-July 30	91	89	
rkey: Trebizond		I	1	

# Reports Received from June 25 to September 30, 1910. YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil: Bahia Manaos Para	Apr. 30-June 3 May 30-Aug. 20 May 30-Sept. 3	2 32 99	2 32 64	July 25: One death on steamshi
				Augustine, en route from Par to Lisbon, 2 days previous t arrival at Madeira.
Pernambuco	May 16	21	1	
San Jose	May 28-July 9	3	2	Fatal case May 28 from Barrar quilla; case June 29 fror Siquires; fatal case July 9 fror Tivives.
Siquires Ecuador:	July 31	l	1	
Duran Guayaquil Milagro Gold Coast:	Aug. 16–31	64	27 1	
Sekondi	Мау 1-27	8	8	
FreetownSherboroVenezuela:	May 1-Aug. 1 May 20		7	Present.
La Guaira	June 16–30		1	
Argentina: Rosario Tucuman	Feb. 1-28 Feb. 26-May 31	1 37	1 16	
Brazil: Bahia	Apr. 30-Aug. 13	6	6	
Para Pernambuco Rio de Janeiro	Apr. 1-June 30	2	2	Present.
Chile: Iquique	May 8-Aug. 6	36	11	Decemb
Mejillones Pisagua Taltal	Apr. 1-May 31	14 12	4	Present.
China: Amoy	July 3-Aug. 20		10	May 8-June 11, 8 to 12 death daily. Aug. 6, present in v cinity.
Kulangsu, interna- tional city.	June 5-11		1	emity.
Canton	July 13-Aug. 6 May 5-19	43	31 3,000	Mainly at Ho Peng. Present also at Chelin, Feng-chow-so Taipushien, and Tsai-tang-sh
Chang-pu district Ching-chew district	June 11			Epidemic. Do.
HankowHongkongSwatow	May 15-28 May 8-Aug. 6 June 1-July 11	18	3 17	Present in vicinity.
Ecuador: Guayaquil Rocafuerte	May 16-Aug. 31 Aug. 16-31	43 1	9	-
Egypt: Alexandria	May 24-Sept. 6	23	13	
Ishmalia Port Said	June 19	1 27	11	
Provinces—	May 26 Sept 7	18	0.	

 ovinces—
 May 26-Sept. 7

 Assiout.
 Apr. 30-June 8

 Assouan.
 Apr. 30-June 8

 Beni Souef.
 May 27-June 29

 Dakalyieh
 Aug. 16-26

 Galioobeeh.
 May 21-July 29

 Garbieh.
 May 14-Aug. 27

 Fayoum
 May 28-July 11

 Kena.
 May 27-June 18

 Menouf.
 May 24-July 22

 Minieh
 May 31-Aug. 19

# Reports Received from June 25 to September 30, 1910.

#### PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii:		T T T T T T T T T T T T T T T T T T T		
. Honolulu	July 5–12	. 2	2	
India:	Mars 10 Aug 92		818	-
BombayCalcutta	May 18-Aug. 23 May 1-Aug. 6		499	
Kurrachee	May 15-Aug. 20	295	285	
Madras		200	1	
Rangoon	May 8-Aug. 13		394	
Bombay Presidency and Sind.	May 1-July 16	2,831	2, 459	
Madras Presidency	May 1-July 16	275	203	
Bengal	May 1-July 16 May 1-July 16 May 1-July 16 May 1-July 16	1,220	1,104	
United provinces	May 1-July 16	6,111 43,740	5,609	
Punjab Burma.	May 1-July 16	1,359	38, 133 1, 285	
Eastern Bengal and Assam.	June 12-July 9	48	1,200	
Central provinces, including Berar.	May 1-July 16		129	
Mysore State	May 1-July 16	283	202	1
Hyderabad State	May 1-July 16	101	76	
Central India	May 1-July 16	28	22	
Rajputana and Ajmer- Merwara.	May 1-July 16	7,881	6, 991	
Kashmir North West Province	May 1-June 11 June 12-18	58 3	49 3	
Grand total		64, 154	56, 310	
Japan:				
Formose	May 9 Tune 19	16	12	1
FormosaOsaka	May 8-Junc 18 May 1-June 25	19	9	
Malta:	may round so	•	l. •	
Valletta	July 16	1	• • • • • • • • • • • • • • • • • • • •	In quarantine station on Comin Island, from s. s. North Wales
Mauritius New Zealand:	Apr. 1-June 30	14	9	
Auckland	May 23	1		,
Bouchir	Apr. 29-June 25	51	40	
Arequipa Department	Mar. 1-31	16	8	
Mollendo	May 16-June 19	1	1	Aug. 12, one case.
Callao Department	Mar. 1-31	2	· · · · · · · · · · · ·	G 16 10 from 17-4
Callao	May 12-19	2	•••••	Case May 12 from s. s. Victoria case May 19 from s. s. Nicaria June 28, present.
Lambayeque Department	Mar. 1-July 31	40	20	vano 20, prosenti
Lambayeque Department Libertad Department	Mar. 1-July 31	55	39	
Lima Department	Mar. 1-July 31 Mar. 1-July 31 Mar. 1-July 31	20	12	
Piura Department	Mar. 1-July 31	6	3	
Rhodes:			i	
Aplakiatussia:	May 22-28	•••••	••••••	Present.
Astrakhan, government—				
Khirgiz Steppe	June 26-July 7	13	12	In Kalmuk and Narinsk.
Moscow	Aug. 14–20	68	,1	
OdessaSt. Petersburg	July 18-Aug. 27 May 6-28	3	15	
iam:	1	22	_	
Bangkoktraits Settlements:	Apr. 25-July 18		20	
rinidad:	May 8-28	3	3	
Port of Spain'unis:	May 15-July 14	2	2	
urkey in Asia:	June 30	5	3	
BasraLobeia	June 12-Aug. 13 May 1-24	5 25	27	And vicinity.
'enezuela: Caracas	•	2	2	· · · · · · · · · · · · · · · · · · ·
anzibar: Zanzibar	•	- [	-	
AMIIZIDAL	DEDL. IU	1 .		

## Reports Received from June 25 to September 30, 1910.

#### SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Abyssinia:				
Adis Ababa	May 16-Aug. 20	)	.	Present.
Argentina:		ĺ		
Buenos Aires	Teb. 1-June 30		. 362	Waldamile
Mendoza, province Rosario	July 27 Feb. 1-June 30.	4	4	Epidemic. Report for February received
1400010	1 00.1-0 tine 00.		,	out of date.
San Juan, province	July 27		.	Epidemic.
Algeria:			1 .	
Bona	May 1-31	1	1	
Maskat	July 19-23	1		
Australia:	vary 10 20	••••		
Victoria, general	Apr. 3-19	1	1	
Austria-Hungary:	T1 10 10	١.,		İ
Bukowina	July 10-16 May 29-July 23	1		· l
Barbados.	Aug. 16			From steamsh p Byron.
Belgium:	-	i		F - 510-
Antwerp	July 24-30	1		
Ghent	July 24–30		.  1	
Brazil: Bahia	Ane 20 Ang 5	270	206	
Campinas	Apr. 30-Aug. 5. July 17-23	210		‡
Manaos	Aug. 6			Present.
Para	Aug. 6 May 29-Aug. 20	43	18	
Pernambuco	Mar. 16-June 30	) <b></b>	331	
Rio de Janeiro	Apr. 18-July 21 May 22-July 16	7		
Santos	June 12–25	••••	11	
Canada:	June 12-20		•	
British Columbia—		l l	1	
Fernie	June 12-25	4		
Vancouver	May 1-31	2		
Victoria Manitoba—	Aug. 21-Sept. 3	2		
Winnipeg	June 19-25	1	1	
Nova Scotia—		I		
Halifax	June 14-Sept. 3	13		
Pictou	June 12-July 23		1	
Sydney Ontario—	July 3–16	20		
Toronto	June 5-Aug. 27.	12		
Ceylon:	- ,			
Colombo	June 26-July 30	1	1	
Chile: Antofagasta	July 3-9	. 4		
Chilean	May 14	· · · · · · · · · · · · · · · · · · ·		Epidemic.
Santiago	June 19–25			Present.
Valparaiso	May 19-Aug 13.	177		Deaths not reported.
Victoria	May 14			Present.
Canton	May 8-28	9		
Chefoo	June 18-July 2.		1	June 5-Present. July 2-One
	-	- 1		case from a vessel.
Hongkong	May 8-July 30	6	3	. D
NankingShanghai	May 7-Aug. 13. May 22-Aug. 28	5	45	Present.
Shanghai	may 22-Aug. 20	3	40	Cases among foreigners, deaths among natives. June 9—Three cases from U.S. cruiser New
		1	!	cases from U.S. cruiser New
_		1		Orleans from Nanking.
Swatow	June 6-July 17.			Present.
Tsingtau	June 12-18	···   2		
Habana	Sept. 17	1	!	On s. s. Corcovado, from Coruna.
Egypt, general	Apr. 30-June 17.	415	85	ŕ
Alexandria	May 1-June 30.	4	10	
CairoSuez	May 1-June 30. May 21-Aug. 5. May 21-27	10	5	
rance:	may 21-21	1		
Paris	May 29-Sept. 3.	34		
ermany general	Man 00 A C	18		
or minutes, government of the contract of the	May 29-Aug. o.			
Germany, general	May 29-Aug. 6 June 5-11	1		
libraltar	June 5-11 June 20-Sept. 11	1	2	
libraltar	June 5-11 June 20-Sept. 11	5	2	
libraltarlreat Britain;	June 5-11	5 2	2	

#### Reports Received from June 25 to September 30, 1910.

#### SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Hawaii:				
Hilo	Sept. 10	. 1		Case on s. s. Wilhelmina, from San Francisco via Honolulu.
India:	Man 10 Ang 16		116	
Bombay Calcutia	May 18-Aug. 16 July 10-16		110	
Kurrachee	May 15-July 16		3	
Madras	.  May 14-Aug. 19		. 21	
	May 8-Aug. 6		. 37	
Italy, general	May 30-Aug. 7			
Naples	June 16-30 May 30-Aug. 21		17	June 26—One case from s. s. San Giovanni. One case, July 3
Japan:	,			on s. s. Pannonia.
Formosa	May 22-July 16	3	4	4
Batavia	May 22-July 16	3	1	
Korea:				
Fusan	May 1-7	1		
Seoul		3	4	
Malta Mexico:	May 22-July 30	18	2	
Aguascalientes	June 5-Aug. 6		26	
Guadalajara	June 11-July 2		6	
Mexico	June 11-July 2 May 15-Aug. 20 May 29-July 30		30	
San Luis Potosi Veracruz	May 29-July 30	1	5	
v eracruz Persia:	July 3-9	-		
Kerman	July 2			Present.
Teheran	May 1-31		28	Among pilgrims.
Portugal:	35 00 0 4 0		!	T 1 A 0 34b-100
Lisbon	May 29-Sept. 3	640		Jan. 1–Aug. 6, deaths 150.
Russia: Libau	May 30-Sept. 2	142	9	
Moscow	May 22-Aug. 27	169	66	
Odessa	May 22-July 30	50	12	
Riga	May 22-Aug. 27 May 22-July 30 May 29-Sept. 3 May 8-Aug. 27	385		Apr. 1-June 30, deaths 88.
St. Petersburg Warsaw.	May 8-Aug. 27 Mar. 6-June 25		148 148	
liam:	mar. o-sunc 20		140	
Bangkok	Apr. 25-June 18	3	3	
Siberia:		_		
Vladivostok	Apr. 22-July 21	6		
Spain: Almeria	Tune 1_Aug 31		3	
Barcelona	June 1-Aug. 31 May 31-Sept. 4		17	
Cadiz	May 1-31		1	
Madrid	May 1-July 31		5	
Seville	May 1-Aug. 30	6	5	
Valencia Vigo	June 19-July 23 June 12-Sept. 4	0	6	
traits Settlements:	vune iz bopt. 1	• • • • • • •	•	
Penang	May 29-July 30	4	3	
Singapore	May 8-Aug. 6	128	38	
witzerland:	T1 10 16	1		
Thurgau, Canton Zurich, Canton	July 10–16 June 19–Aug. 27	8		
Cripoli:	vunc 15-Aug. 27	٥		
Tripoli	June 12-18	1		
'urkey:	4 00 00			
Constantinople	Aug. 22-28		1	
Furkey in Asia: Basra	June 5-Aug. 13			Present.
Jruguay:				
Montevideo	Apr. 1-June 30	654	273	
San Jose	July 7			Do.
anzibar:		OF	41	
Zanzibar	June 1-July 31	95	41	

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.				Deaths from—										
		Estimated population.	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen	Sept. 3	185, 703	33							1				
Aberdeen Aguascalientes Do. Amsterdam Do. Antwerp Athens Do. Barcelona Do. Barmen Batavia Belfast Belgrade Berlin Birmingham Bombay Bremen Brussels Budapest Jairo Do Do Lacleutta Lampbelitown Jatania Themnitz Thimhaua Do Christiania Joogne Lolon Do Christiania Lologne Do Christiania	Sept. 10	40,000	79 61	2				<u>.</u> .	2		ï			
Amsterdam	Sept. 17 Sept. 10	40,000 571,225	107	9						···•		i		١
Do	Sept. 17		96	17	ļ								1	
Antwerp	Sept. 10	326, 351 250, 010	75 85	7 26				••••		8		• • • •	1	
Do	Aug. 28 Sept. 3	200,010	95	19						7				
Barcelona	Sept. 11	591, 272	285	22						7		1	1	
Do	Sept. 19	164 600	285 42	19					···i	9	• • • •	2	2	
atavia	Aug. 27 Aug. 20	164,600 217,630	42			7					• • • • •			• • •
elfast	Sept. 10	217,630 391,167 80,000	103	18									3	
elgrade	Sent. 3	80,000	535	75	• • • •	• • • •		• • • •		1	3	12	···i	• • •
irmingham	Sept. 3 Sept. 17	2, 128, 109 570, 113	119							i		1		
ombay	Aug. 30	570,113 977,822	566	56	25	2				6			1	
remen	Sept. 10	241,653	54	10	• • • •			••••		12	··i	1	••••	
ndanest	do	562, 895 950, 610	184							4	6	i		
iro	Aug. 26	677,663	654	36					7	5		10	14	
Do	Sept. 2		543 481	19 35	••••				7	9		15 9	3	• • •
alcutta	Sept. 9 Aug. 13	847, 976	335	15	4	13							2	• • •
mpbelltown	Aug. 13 Sept. 26	847, 976 2, 500	3						1	2				
tania	Sept. 10	210,000	74	6		• • • •			1	1	;-			
iemnitz	do Sept. 11	286, 885 37, 000	77 34	8	••••	••••					1		i	
Do	Sept. 18		34 28	2						2		··i		
ristiania	Sept. 18 Sept. 10	250,000	53 161	4		••••					1	1 1	1 2	•••
ologne	do Aug. 20	513,355 187 554	119	8 16			••••			4	••••	1	Z	
penhagen	Sept. 3	187,554 455,000 1,000,000	127	12						1	3	1		•••
nstantinople	Sept. 12	1,000,000	183 176	32 10				•		5 4		··i·	1	
D0	Sept. 18	44.546	33	10		i				2				· · ·
esden	Aug. 27 Sept. 10	44,546 552,100 170,206	33 117	15						1		2 2		
iristiana. lologne. lologne. penhagen. mistantinople. Do. alny. resden	Sept. 7	170, 206	51	;-						• • • •		2	··i·	
irangoDolinburghfurt	Sept. 11 Sept. 18	75,000	32	1 1	••••	••••	• • • • •				••••		1	
linburgh	Sept. 10	360, 276 109, 140	20 85	7								i		
furt	do	109,140	24 84	5					••••		• • • •	2	2	•••
ankfort on the Main orgetown nentasgow.	Sept. 3	409,800 53,176	42	2						i			2	
ent	Sept. 3 Sept. 10	165,475 884,520	62	4				1						
asgow	Sept. 16	884,520	218	• • • •				• • • •		;.	3	2	••••	
eenockamburg	Sept. 17 Sept. 10	73,605 895,804	20 263	31	••••		• • • • •			1 2		10	2	
VT6	Sept. 3	132, 430	61	10						1		1	!	
Do	Sept. 10	2 500	68	12					••••	1 2	••••		1	
Do	Sept. 3 Sept. 10	3,500	8 9	1						2				• • •
ongkong	Aug. 13 Sept. 17	336, 488			1									
111	Sept. 17	280,006	94	4	• • • •		-	• • • • •		1 .	-;-	2		• • •
Do	Aug. 13 Aug. 27	38, 382		5	i									· • • ·
onigsberg	Sept. 10	244, 200 130, 000	86	9						-			1	2
urrachee	Aug. 31 Sept. 17	130,000	92 151	10	14		···· ·		-	i .	-	-	4	ij
eipzig	Sept. 17	498, 350 590, 329	182	21						2		3 .		i
ith	do	590, 329 86, 767 90, 000	20	2						-	-;-	2 .	-	
Do illo Do Ongkong ull ulque Do Onigsberg urrachee eeds eipzig eith bau	Sept. 11	90,000	271	16	· • • •	-	· ·		-		1 6	i	5	
verpool	Sept. 17 Sept. 10	767,606 7,537,196	1,405	10				:::/:	::: :	4		16	23	19
adras	A11g. 26	590,000	484 .			16		3 .			.			
pau verpool ndon adras anaos anchester	Aug. 27	50,000	41 163	4 15	• • • •   •		2 .	-	-	-		.;.	3	···i
anchesterontrealoscow	Sept. 16 Sept. 24	631, 533 450, 000		15   . 17   .			::: :		::: -	5 .		2 2		·i
	Sept. 3	1,500,000	718	64		12			1		14	21	1	ē

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.				Deaths from—										
		Estimated population.	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Nantes. Newastle-on-Tyne. Newastle-on-Tyne. Newastle-on-Tyne. Newastle-on-Tyne. Newastle-on-Tyne. Palermo  Do  Do  Paris. Port of Spain Port of Spain Port said Prague Rangoon Rome.  Do  Do  Do  Do  Do  Do  Roterdam  Do  Roterdam  Do	Sept. 3 Sept. 10 Sept. 10 Aug. 20 do Sept. 2 Sept. 10 Aug. 20 Apr. 16 Apr. 23 Apr. 30 May 7 May 14 May 21 Sept. 10	161, 908 285, 891 323, 500 340, 000 185, 000 2, 776, 394 103, 582 60, 000 53, 711 233, 344 252, 155 587, 096	52 73 106 106 75 65 748 64 32 34 223 246 220 248 238 238 238 238 238 238 238 238 238 23	11 8 16 7 6 7 164 8 6 2 15 9 15 21 21 17 16 7	19	1	2 4	4	1	1 3 3 2 2 5 2	1 1 4 1 1 2	2  1  5 6 8 1 5 2 	3 2 2 5 23 21 3	
San Luis Potosi St. Petersburg Do Do Do Santa Cruz de Teneriffe Seoul Do Sheffield Do Shanghal Singapore Southampton Stettin Talcahuana Do Do Do Do Do Do Do Do Do Do Do Do Do	Aug. 27 Aug. 20 Aug. 27 Sept. 3 Sept. 10 July 30 Aug. 6 Sept. 10 Sept. 17	1,900 1,678,000 46,000 38,884 472,000 565,000 271,060 127,157 239,000 28,000 391,988	126 126 135 229 213 200 73 124 100 11	3 98 83 100 10 6 18 27 1 11 2 2 14 16				7 8 4 4	1 2	6 9 11 1 1 1 2 2 1 3 1 1	1 1 1 1 1 2	12 7 8	3 14 8 4  2 1  1	

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

ALGERIA—Bona.—Month of August, 1910. Population, 42,000. Total number of deaths from all causes 66, including typhoid fever 1, typhus fever 2, tuberculosis 12.

ARGENTINA—Buenos Aires.—Month of May, 1910. Population, 1,268,254. Total number of deaths from all causes 1,602, including typhoid fever 22, typhus fever 1, smallpox 68, scarlet fever 6, diphtheria 19, tuberculosis 163.

Month of June, 1910. Total number of deaths from all causes 1,834, including typhoid fever 19, smallpox 70, diphtheria 28, tuberculosis 165.

Austria—Brünn.—Month of May, 1910. Population, 94,500. Total number of deaths from all causes 246, including typhoid fever 1, scarlet fever 1, diphtheria 4, tuberculosis 63. Month of July, 1910. Total number of deaths 197, including typhoid fever 3, tuberculosis 44.

CANADA—Hamilton.—Month of August, 1910. Population, 70,000. Total number of deaths from all causes 132, including typhoid fever 1, diphtheria 1, tuberculosis 10.

Vancouver.—Month of July, 1910. Population, 78,900. Total number of deaths from all causes, 89, including measles 1, tuberculosis 9.

Yarmouth.—Month of August, 1910. Population, 6,700. Total number of deaths from all causes, 11, including diphtheria 1, tuberculosis 3.

France—Cherbourg.—Month of August, 1910. Population, 43,837. Total number of deaths from all causes, 55, including typhoid fever 1, tuberculosis 13.

Nice.—Month of July, 1910. Population, 150,881. Total number of deaths from all causes, 190, including typhoid fever 1, scarlet fever 1, tuberculosis 29.

St. Etienne.—Month of August, 1910. Population, 150,000. Total number of deaths from all causes, 213, including typhoid fever 1, measles 2, diphtheria 1, tuberculosis 39.

GREAT BRITAIN.—Week ended August 13, 1910.

England and Wales.—The deaths registered in 77 great towns correspond to an annual rate of 11.1 per 1,000 of the population, which is estimated at 16,940,895.

Salford.—Three months ended July 2, 1910. Population, 244,636. Total number of deaths from all causes, 917, including typhoid fever 8, measles 28, scarlet fever 4, diphtheria 14, tuberculosis 132.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 15.7 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Drogheda, viz, 4.1, and the highest at Kilkenny, viz, 73.7 per 1,000.

Scotland.—The deaths registered in 8 principal towns correspond to an annual rate of 12.7 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Leith, viz, 7.8, and the highest at Perth, viz, 21 per 1,000. The total number of deaths from all causes was 460, including typhoid fever 2, measles 4, scarlet fever 3, diphtheria 4.

GREECE—Patras.—Month of August, 1910. Population, 40,000. Total number of deaths from all causes 33, including tuberculosis 7.

ITALY—Milan.—Two weeks ended August 15, 1910. Population, 900,000. Total number of deaths from all causes, 64, including typhoid fever 12, measles 3, tuberculosis 48.

Jamaica—Kingston.—Month of August, 1910. Population, 48,500. Total number of deaths from all causes, 76, including tuberculosis 24. New Zealand.—Month of April, 1910.

Auckland.—Population, 97,929. Total number of deaths 66, including typhoid fever 2, diphtheria 1, tuberculosis 4.

Christchurch.—Population, 78,605. Total number of deaths 59. Dunedin.—Population, 62,584. Total number of deaths 80, including tuberculosis 6.

Wellington.—Population, 76,390. Total number of deaths 52, including typhoid fever 1, diphtheria 1, tuberculosis 6.

Russia—Riga.—Month of June, 1910. Population, 355,000. Total number of deaths from all causes 150, including typhus fever 10 typhoid fever 1, smallpox 53, measles 13, scarlet fever 52, diphtheria 10.

Spain—Almeria.—Month of August, 1910. Population, 50,910. Total number of deaths from all causes 78, including typhoid fever 2, smallpox 2, tuberculosis 6.

Seville.—Month of August, 1910. Population 154,315. Total number of deaths from all causes 396, including typhoid fever 1, smallpox 1, scarlet fever 6, diphtheria 5, tuberculosis 66.

TURKS ISLANDS.—Three weeks ended September 10, 1910. Population, 1,800. Total number of deaths from all causes 2. No deaths from contagious disease.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General.

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United States Public Health and Marine-Hospital Service