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## PELLAGRA.

### ITS NATURE AND PREVENTION.

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In the following paper an attempt is made to answer, as simply as possible, the more important questions which the general public frequently asks in regard to pellagra.

#### Symptoms.

Although the fully developed disease makes a picture which, when once seen, can hardly ever be wrongly diagnosed even by one who is not a physician, the recognition of the disease is by no means simple, because the fully developed or classical types of cases form only a small proportion of the total.

The following sketch of the symptoms is presented, therefore, not with the idea that it will enable the untrained to recognize the disease, but rather to call attention to those symptoms or combinations of symptoms which should be looked upon as suspicious and as calling for the simple and effective measures of prevention to be outlined.

In a fairly well developed though not advanced case the disease shows itself by a variety of symptoms, of which weakness, nervousness, indigestion, and an eruption form the most distinctive combination.

*Eruption.*—The eruption is the most characteristic telltale of the disease and the main reliance in its recognition. When the eruption first shows itself it may look very much like a sunburn, the deceptive resemblance to which may, in some cases, be heightened by the subsequent peeling with or without the formation of blisters. In many cases the inflamed-looking skin first turns to a somewhat dirty brown, frequently parchmentlike, then quickly becomes rough and scaly, or cracks and peels. In many instances, however, the beginning redness is not noticed or does not occur, the first and perhaps the only thing observed being the dirty-looking scaly patch of skin very much

like and frequently thought to be no more than a simple weathering or chapping.

Among the most distinctive peculiarities of the eruption is its preference for certain parts of the body surface. The backs of the hands in adults and the backs of the feet in children are its favorite sites. Other parts not infrequently attacked are the sides or front of the neck or both, the face, elbows, and knees. From these or other points, for it may attack any part of the body, it may spread to a varying degree. Another marked peculiarity of the eruption is its tendency to appear at about the same time, and to cover similar areas, both as to extent and peculiarities of outline, on both sides of the body. Thus it may be stated as the rule that if the back of one hand or of one foot, one elbow, one knee, one side of the neck, one cheek, or the lid of one eye is affected, then the corresponding part on the other side of the body is affected, and affected to almost exactly the same extent. This rule, however, is not without many exceptions. It must not be assumed, because the back of one hand or of one foot or of one side of the neck alone seems to be involved, or is involved to so slight an extent as to be almost nothing in comparison with the involvement of the other side, that the possibility of the disease being pellagra may be thrown out of court without further ado.

*Suspicious symptoms.*—Although the main reliance in the recognition of the disease, the eruption of pellagra not infrequently is very tardy in making its appearance. While, until it appears, it is ordinarily impossible to determine the presence or absence of the disease with certainty, a shrewd suspicion may, nevertheless, be formed from a careful consideration of the other symptoms. This applies only to a limited extent to children, in most of whom the manifestations of the disease, other than the eruption, are slight and frequently difficult or impossible to make out. It has happened more than once in the experience of the writer that the liveliest of a group of children was found with a well-developed eruption. Notwithstanding this, however, careful questioning of the mother, if she be observant, not infrequently develops the fact that the child seems to her less active than common; in some cases it is evidently listless and fretful and the mother may also recognize that it has fallen off in weight. In older individuals a complaint of loss of strength with indigestion or nervousness or both coming on or made worse in the spring or summer and improving in the fall and winter are very frequently met with. The patient will complain of being "worked out," of having "blind staggers" (dizziness, vertigo), of discomfort or pain in the pit of the stomach, frequently of headache, sometimes of wakefulness, frequently also of sluggishness of the bowels, requiring the habitual use of medicine to move them. Although, as

has already been said, these symptoms alone or even with the addition of such symptoms as a burning or scalded feeling of the mouth, reddened tongue, burning of the hands or feet and loose bowels are not enough to distinguish pellagra from other conditions, they are ample to justify a suspicion of the disease, especially if such individual is known to be finicky or a nibbler about food, or has been living on a diet made up largely of biscuits, corn bread, grits, gravy, and sirup, with little or no milk or lean meat; in other words, on a diet mainly of cereals, starches, and fat, with but little, if any, of the animal flesh (protein) foods.

The suspicion of pellagra may with confidence be dismissed in one who is known to be, and to have been, a habitual milk drinker and meat eater. It is well to be warned, however, that it is very easy to be misled about what and how much the individual actually eats.

*Insanity.*—In a small proportion of cases, fortunately much smaller than is commonly believed, the mind is affected to a degree requiring asylum care. Many of these cases get well under treatment. Recovery of the mind is not to be expected, however, where the pellagra occurs in a person whose insanity is due to some other (incurable) cause.

#### **Importance and Distribution.**

Under proper treatment and with careful nursing only a small percentage of cases die; nevertheless, the actual number of deaths is deplorably large. Indeed, in nearly all the Southern States pellagra is one of the foremost causes of death. Thus, in 1916, it ranked fourth in Mississippi, third in Alabama, and second in South Carolina. In that year, probably an average one so far as pellagra is concerned, this disease was charged with having caused 677 deaths in Alabama, 840 in Mississippi, 467 in North Carolina, 627 in South Carolina, 607 in Tennessee, and 452 in Texas, or an aggregate of some 3,700 deaths for these six States alone. As the fatality rate, counting all types of cases, was probably not in excess of 5 per cent, it can readily be seen that not only is this disease among the most important as a cause of death, but it probably ranks with the first in importance as a cause of sickness and lowered physical efficiency of the people in the area affected. In the six States named there probably occurred some 70,000 definite cases of pellagra. As it is quite safe to assume that there were in the remaining 7 of the 13 States south of the Potomac and Ohio Rivers—the section most seriously affected—at least half as many more, there probably occurred in this region in 1916 upward of 100,000 cases. The incomplete figures at hand indicate a considerable increase of the disease in 1917. It seems safe to assume that this increase averaged about 25 per cent, so that it may

be estimated that in 1917, in the part of the country mentioned, fully 125,000 people were attacked.

In other parts of the country the disease is very much less common. The explanation for this has not been fully worked out. It depends in part, at least, on a difference in dietary habit. The people of the South are known to eat much less of the animal foods, such as milk and lean meat, than do the people in other sections. This, in its turn, is due in part to the fact that, by comparison, much less of the animal foods is raised in the South, and, therefore, in many localities they are hard to get or are too expensive for poor people to buy.

#### Relation to Living Cost.

It is the poor man who is the chief sufferer from this disease. This explains why hard times, especially when accompanied by rising food prices, are likely to be followed by an increase in the disease. This is well illustrated by the great increase that took place in 1915 following the hard times brought on by the outbreak of the war in Europe in the summer of 1914, and by the great decrease in 1916 following the improvement in conditions that developed during 1915. Unfortunately, the upward trend of living cost in the fall and winter of 1916 brought about an increase of pellagra in 1917 in many localities, an increase which was forecast months in advance by the United States Public Health Service.

#### Cause.

*Pellagra not "catching."*—The apparently rapid spread of the disease following the discovery of its presence in this country about 10 years ago caused great alarm and with certain other circumstances gave rise to the opinion that pellagra was a communicable disease. Fortunately, the investigations of the Public Health Service now permit one to answer the oft-repeated question, "Is pellagra catching?" in the negative.

Experimental tests and careful observations show that pellagra is not a communicable disease. No germ that can properly be considered its cause has ever been found. Attempts to give persons pellagra by inoculations of blood or saliva and other body discharges from severe cases of pellagra have failed completely. On the other hand, when 11 convicts were fed on an unbalanced diet composed mainly of biscuit, corn bread, grits, rice, gravy, and sirup, with only a few vegetables and no milk, meat, or fruit, at least six developed the disease. In an asylum where many of the inmates developed pellagra year after year it was observed that the doctors, nurses, and helpers who lived with them never developed the disease. The only discoverable reason for the exemption of the nurses and helpers was a better

diet. The nurses and helpers had a liberal allowance of lean meat and some milk, while the inmates had very little or none. When this observation was tested by giving the inmates a better diet—that is, by giving them more meat, milk, fruit, and vegetables—it was found that the inmates stopped having pellagra. This test was also carried out at three orphanages where there had been many cases in the children every spring for several years, and always with the same result. After the diet was improved, although no other change was made, pellagra disappeared. Attempts to prevent pellagra by supposedly other means have succeeded only when, whether intentionally so or not, some change in diet took place at the same time.

*Caused by unbalanced diet.*—These facts, together with others not mentioned here, show that pellagra is caused by eating a faulty or unbalanced diet, and that people who consume a mixed, well-balanced, and varied diet, such, for example, as that furnished to our soldiers and sailors, do not have the disease. In other words, if all persons provided themselves and ate a well-selected and properly varied diet there would be no pellagra. It is very important to realize that having good food on the family table is of itself not enough to keep one from having pellagra. There may be plenty of milk or eggs or meat, but if you don't eat them, or if you just pick at them and prefer to live, as the convicts in the experiment lived, mainly on cereals, starchy foods, and sweets, the milk and eggs will do you no good, and if you persist long enough pellagra may result.

#### **Balanced Ration Prevents Pellagra.**

A properly selected or well-balanced diet is one that includes in sufficient quantities and in proper form all the elements needed by the body for its healthy growth and normal activities. In order that a proper balance may be assured, the diet should include, besides the cereals, starches, sweets, and fats, a sufficient quantity of milk or some lean meat and an abundance of green vegetables and fruit and preferably some of all of these classes of foods. How such a diet operates to prevent pellagra or, indeed, just how an unbalanced or faulty diet acts so that the symptoms of pellagra are developed is still obscure and the subject of study by many scientists. The vitally important practical thing, however, is that the right kind of a diet will keep people from having the disease and will cure those who have it if the cases are not too far advanced.

*Milk* is the most important single food in balancing a diet and preventing or curing pellagra, and when lean meat, green vegetables, and fruits are for any reason not included in the diet or only infrequently or in very small quantities, it is most important that at least three glassfuls ( $1\frac{1}{2}$  pints), and preferably more, of milk (sweet or

buttermilk) be taken daily. This single addition to the customary daily diet will in practically all instances protect the individual from an attack of pellagra. Milk for the family in these quantities is, however, frequently hard to procure. For this and other reasons it is wiser under such circumstances to use certain other classes of foods as substitutes or, preferably, as additions to the available milk supply.

*Lean meat* (fowl, fish, pork, beef, etc.) helps in an important degree to give proper balance to a diet, especially the diet of those who take but little milk. Under these circumstances an allowance of half a pound at least three or four times a week should be made. Part of the meat may be replaced by eggs or cheese. It will be wiser, however, not to make any reduction in the meat allowance recommended, but rather to add eggs and cheese to the diet.

It is often declared that Americans eat too much meat. No doubt there are many who do. It is important to recognize, however, that there are even more who do not eat enough.

In seasons when lean meats are difficult to procure or are excessively expensive, the use of the dried soya bean as a substitute for flesh food is to be highly recommended. It is but little known and relatively little used as human food in this country, though an extensively used staple in the Orient. From a nutritive standpoint, it is probably the most valuable of the dried beans and peas. Recent studies have shown it to be decidedly superior to the dried navy bean, lima bean, and the pea. The soya bean may be eaten boiled or baked and, in the form of soy-bean meal, may be included to great advantage in the biscuit or the corn bread to the extent of one-fifth to one-fourth of the flour or the corn meal.

Generous helpings of green vegetables (cabbage, collards, turnip greens, spinach, string beans, or snap beans), or fruits (apples, peaches, prunes, apricots), and preferably of both, should be included in the daily diet, especially when milk is not used or used only in small amounts. This is particularly important during the late winter and spring, the season when people have the fewest number and the least variety of things to eat.

As an illustration of the practical application of the above recommendations for a health-preserving, pellagra-preventing diet, the following outline of a bill of fare is presented:

#### **Pellagra-Preventing Bill of Fare.**

##### **BREAKFAST.**

Sweet milk, daily.

Boiled oatmeal with butter or with milk every other day.

Boiled hominy grits or mush with a meat gravy or with milk every other day.

Light bread or biscuit (one-fourth soy-bean meal), with butter, daily.

## DINNER.

A meat dish (beefstew, hash, or pot roast, ham or shoulder of pork, boiled or roast fowl, broiled or fried fish, or creamed salmon or codfish cakes, etc.), at least every other day.

Macaroni with cheese, once a week.

Dried beans (boiled cowpeas with or without a little meat, baked or boiled soya beans with or without a little meat), two or three times a week.

Potatoes (Irish or sweet), four or five times a week.

Rice, two or three times a week, on days with the meat stew or the beans.

Green vegetables (cabbage, collards, turnip greens, spinach, snap beans or okra), three or four times a week.

Corn bread (one-fifth soy-bean meal), daily.

Buttermilk, daily.

## SUPPER.

Light bread or biscuit (one-fourth soy-bean meal), daily.

Butter, daily.

Milk (sweet or buttermilk), daily.

Stewed fruit (apples, peaches, prunes, apricots), three or four times a week, on days when there is no green vegetable for dinner.

Peanut butter, once or twice a week.

Sirup, once or twice a week.

It will be recognized that this bill of fare is primarily for older children and adults. The intelligent housewife will, of course, make such modifications as the age of her children, the tastes of her family, and her particular circumstances suggest or make necessary. Various additions may be made to give greater variety and attractiveness to the meals. The quantities of some of the foods may be reduced and replaced, in part or in whole, by other similar foods, but so far as possible no reduction should be made in the quantities of milk and lean meats. In the case of young children eggs make a very desirable addition and the relative quantity of milk allowed them may advantageously be increased.

## Treatment.

While the above recommendations have in view primarily pellagra prevention, the same diet serves satisfactorily also in the treatment and cure of the average case. For severe cases a more liberal allowance of milk should be made and eggs added. In some instances, in fact, only liquids can be taken. In these, milk, fresh-meat juice, meat broth, bean, pea, or potato puree, and pot liquor should form the diet until more substantial food (milk toast, soft boiled or coddled eggs) can be added. The food should be given at regular intervals just as is done with medicine. Indeed, for the cure of pellagra the only medicine we have is the diet. The only use that medicines serve in pellagra is the alleviation of painful symptoms and in the treatment of complicating conditions. The sooner this is realized

the sooner will the quacks, both within and without the profession, be put out of business. The money that is now being wasted on useless and quack medicines is well-nigh sufficient to procure for the poor, deluded sufferers the food from the lack of which they are suffering.

A change of climate is of itself not an essential in the treatment and cure of pellagra. A change from city, village, or "camp" to a farm in the country has not infrequently been found to be beneficial. The benefit derived is to be attributed, however, not to the change of air, as is commonly thought, but rather to the fact that in the country the diet is improved by an abundance of milk, eggs, etc. Practically all the benefits of a "change of climate" may be had at home at the cost of two quarts of milk and half a dozen eggs or half a pound of stew beef a day.

The patient should be warned that a proper diet is not to be considered as a temporary thing which can be dispensed with after recovery from the attack. To avoid a recurrence of the disease and permanently to maintain health and vigor a properly selected diet is essential and must be maintained at all times. It is worth while emphasizing that if all people provided themselves and, at all times, ate a well-balanced diet, pellagra would disappear from the face of the earth. The gain to the country from the consequent reduction of sickness, invalidism, and death, and the increased physical vigor and happiness of the people can not be overestimated.

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### **EFFECT OF THE AIR HAMMER ON THE HANDS OF STONE-CUTTERS.**

In the Public Health Reports of March 22, 1918, appeared reports of investigations made by officers of this service in regard to health hazards from the use of the air hammer in cutting Indiana limestone.

A similar investigation has recently been made by Dr. Alice Hamilton for the Bureau of Labor Statistics of the United States Department of Labor. Her report will appear in the April, 1918, issue of the monthly review of that bureau. Through the courtesy of Dr. Royal Meeker, Commissioner of Labor Statistics, there is given below the summary of the report made by Dr. Alice Hamilton:

#### **Summary.**

Among users of the air hammer for cutting stone there appears very commonly a disturbance in the circulation of the hands, which consists in spasmodic contraction of the blood vessels of certain fingers, making them blanched, shrunken, and numb.



These attacks come on under the influence of cold, and are most marked, not while the man is at work with the hammer, but usually early in the morning or after work. The fingers affected are in right-handed men the little, ring, middle, and more rarely, the index of the left hand, and the tips of the fingers of the right hand, with sometimes the whole of the index finger and sometimes the thumb. In left-handed men this condition in the two hands is reversed.

The fingers affected are numb and clumsy while the vascular spasm persists. As it passes over there may be decided discomfort and even pain, but the hands soon become normal in appearance and as a usual thing the men do not complain of discomfort between the attacks. There are no serious secondary effects following these attacks.

The condition is undoubtedly caused by the use of the air hammer; it is most marked in those branches of stonework where the air hammer is most continuously used and it is absent only in the one branch where the air hammer is used little or not at all. Stonecutters who do not use the air hammer do not have this condition of the fingers.

Apparently, once the spastic anemia has been set up it is very slow in disappearing. Men who have given up the use of the air hammer for many years still may have their fingers turn white and numb in cold weather.

According to the opinion of the majority of stonecutters, the condition does not impair the skill in the fingers for ordinary interior stonecutting and carving, but may make it impossible for a man to do outside cutting in cold weather or to take up a skilled trade which exposes the hands to cold.

The trouble seems to be caused by three factors—long continued muscular contraction of the fingers in holding the tool, the vibrations of the tool, and cold. It is increased by too continuous use of the air hammer, by grasping the tool too tightly, by using a worn, loose air hammer, and by cold in the working place. If these features can be eliminated the trouble can probably be decidedly lessened.

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## **PREVALENCE OF MALARIA IN CERTAIN STATES DURING JANUARY, 1918.**

The study of the prevalence and geographic distribution of malaria by the circularization of physicians has been carried on by the United States Public Health Service for several years. In cooperation with the State health authorities, the Public Health Service mails each month to the physicians in certain States cards on which each physician is asked to report the number of new cases of malaria occurring in his practice during the month. The reports show also the types

of infection and whether or not the diagnoses were confirmed by the use of the microscope.

Reports for the month of January, 1918, have been received from physicians in Georgia, New Jersey, Ohio, the eastern part of Texas, and Virginia. The following table shows the results of the circularization in these States:

*Summary of postal-card reports of malaria for the month of January, 1918.*

	Georgia.	New Jersey.	Ohio.	Texas (eastern half).	Virginia.
Cards mailed.....	3,421	3,012	7,912	3,450	2,420
Cards returned unclaimed.....	60	83	100	109	27
Replies received.....	164	950	1,262	620	810
Percentage of replies received.....	4.88	32.43	16.15	18.55	33.84
Counties represented in replies.....	108	21	51	104	100
Counties from which no replies were received.....	47	.....	37	9	.....
Towns or cities represented in replies.....	242	218	316	277	440
Cases of malaria reported.....	120	79	11	572	219
Types of infection:					
Tertian.....	53	57	7	239	103
Quartan.....	12	5	.....	111	22
Estivo-autumnal.....	18	6	2	82	41
Cases reported confirmed microscopically:					
Tertian.....	7	11	2	56	18
Quartan.....	2	.....	.....	9	6
Estivo-autumnal.....	4	4	1	24	11
Cases of hemoglobinuric fever reported.....	.....	.....	.....	7	.....

# PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

## UNITED STATES.

### EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED APR. 2.

#### CAMP BEAUREGARD ZONE, LA.

Cerebrospinal meningitis:	Cases.
Rapides Parish, rural.....	1
Measles:	
Alexandria.....	1
Mumps:	
Alexandria.....	6
Pellagra:	
Alexandria.....	1
Pneumonia:	
Alexandria.....	2
Boyce.....	1
Pineville.....	1
Smallpox:	
Pineville.....	1
Typhoid fever:	
Pineville.....	1

#### CAMP BOWIE ZONE, TEX.

Fort Worth:	
Cerebrospinal meningitis.....	1
Diphtheria.....	1
Gonorrhea.....	2
Mumps.....	4
Pneumonia, lobar.....	1
Scarlet fever.....	2
Smallpox.....	4
Syphilis.....	3
Typhoid fever.....	1

#### CAMP DEVENS ZONE, MASS.

Chicken pox:	
Lancaster.....	1
Littleton.....	1
Lunenburg.....	1
German measles:	
Ayer.....	1
Littleton.....	2
Lunenburg.....	12
Measles:	
Ayer.....	7

#### CAMP DEVENS ZONE, MASS.—continued.

Mumps:	Cases.
Lancaster.....	3
Pneumonia, lobar:	
Ayer.....	5

#### CAMP DODGE ZONE, IOWA.

Bloomfield Township:	
Chicken pox.....	1
Des Moines:	
Chancroid.....	1
Gonorrhea.....	5
Measles.....	5
Scarlet fever.....	8
Smallpox.....	21
Syphilis.....	16
Tuberculosis.....	1
Whooping cough.....	5
Fort Des Moines:	
Chicken pox.....	1
Smallpox.....	1

#### CAMP FUNSTON ZONE, KANS.

Cerebrospinal meningitis:	
Manhattan.....	1
Chicken pox:	
Junction City.....	1
Stockdale.....	2
Diphtheria:	
Manhattan.....	1
Erysipelas:	
Manhattan.....	1
Measles:	
Junction City.....	7
Manhattan.....	19
Mumps:	
Junction City.....	1
Manhattan.....	9
Pneumonia:	
Manhattan.....	3

## CAMP FUNSTON ZONE, KANS.—continued.

Scarlet fever:	Cases.
Junction City.....	1
Manhattan.....	7
Pottawatomie County.....	2
Riley.....	1
Smallpox:	
Manhattan.....	3
Whooping cough:	
Junction City.....	4
Manhattan.....	1

## CAMP GORDON ZONE, GA.

Cerebrospinal meningitis:	
Atlanta.....	2
Chicken pox:	
Atlanta.....	5
Diphtheria:	
Atlanta.....	1
German measles:	
Atlanta.....	4
Gonorrhea:	
Atlanta.....	6
Measles:	
Atlanta.....	19
Mumps:	
Atlanta.....	41
Decatur.....	1
Pneumonia:	
Atlanta.....	3
Dunwoody.....	1
Scarlet fever:	
Atlanta.....	4
Smallpox:	
Atlanta.....	1
Syphilis:	
Atlanta.....	9
Tuberculosis:	
Atlanta.....	3
Chamblee.....	1
Typhoid fever:	
Atlanta.....	9

## CAMP GREENE ZONE, N. C.

Charlotte Township:	
Cerebrospinal meningitis.....	2
Chancroid.....	3
Chicken pox.....	1
Diphtheria.....	1
Gonorrhea.....	10
Measles.....	6
Mumps.....	7
Rabies in animals.....	1
Smallpox.....	4
Syphilis.....	6
Tuberculosis.....	2
Typhoid fever.....	1

## GULFPORT HEALTH DISTRICT, MISS.

Gulfport:	
Chicken pox.....	1
Gonorrhea.....	1
Malaria.....	4
Measles.....	7
Mumps.....	3
Pellagra.....	2
Tuberculosis.....	1

## CAMP HANCOCK ZONE, GA.

Cerebrospinal meningitis:	Cases.
Augusta.....	1
Chicken pox:	
Augusta.....	1
German measles:	
Augusta.....	7
North Augusta.....	1
Measles:	
Augusta.....	21
Mumps:	
Augusta.....	2
Scarlet fever:	
Augusta.....	2
North Augusta.....	1
Tuberculosis:	
Augusta.....	3
Typhoid fever:	
Augusta.....	1
Whooping cough:	
Augusta.....	5

## CAMP JACKSON ZONE, S. C.

Columbia:	
Measles.....	5
Mumps.....	8
Roseola.....	1
Tuberculosis.....	1

## CAMP JOSEPH E. JOHNSTON ZONE, FLA.

Cerebrospinal meningitis:	
Jacksonville.....	1
Chicken pox:	
Jacksonville.....	10
Diphtheria:	
Jacksonville.....	1
Dysentery:	
Jacksonville.....	2
Seaboard Air Line shops.....	13
Gonorrhea:	
Jacksonville.....	2
Malaria:	
Jacksonville.....	1
Measles:	
Jacksonville.....	9
Fishers' Corner.....	1
Mumps:	
Jacksonville.....	5
Seaboard Air Line shops.....	1
Eastport.....	2
Pneumonia:	
Seaboard Air Line shops.....	1
Smallpox:	
Jacksonville.....	2
Syphilis:	
Jacksonville.....	2
Murray Hill.....	1
Trachoma:	
Jacksonville.....	2
Tuberculosis:	
Jacksonville.....	6
Typhoid fever:	
Jacksonville.....	1
Whooping cough:	
Jacksonville.....	7

## FORT LEAVENWORTH ZONE, KANS.

Leavenworth:	Cases.
Chicken pox.....	2
Diphtheria.....	3
German measles.....	2
Gonorrhea.....	1
Measles.....	11
Scarlet fever.....	3
Smallpox.....	1
Leavenworth County:	
Chicken pox.....	1
Measles.....	3
Pneumonia, lobar.....	1
Scarlet fever.....	1
CAMP LEWIS ZONE, WASH.	
German measles:	
Roy.....	7
Lake City.....	3
Spanaway.....	6
Parkland.....	6
Stellacoom Lake.....	1
Mumps:	
Dupont.....	1
Whooping cough:	
Parkland.....	3
Stellacoom Lake.....	1
CAMP LOGAN ZONE, TEX.	
Cerebrospinal meningitis:	
Houston.....	1
Chancroid:	
Houston.....	2
Goose Creek.....	1
Chicken pox:	
Houston.....	4
Diphtheria:	
Houston.....	3
German measles:	
Houston.....	3
Gonorrhea:	
Houston.....	30
Tomball.....	1
Humble.....	1
Goose Creek.....	1
Magnolia Park.....	1
Westfield.....	1
Malaria:	
Moonshine Hill.....	1
Measles:	
Houston.....	26
Goose Creek.....	1
Mumps:	
Houston.....	6
Goose Creek.....	1
Pneumonia:	
Houston.....	13
Magnolia Park.....	2
Moonshine Hill.....	1
Scarlet fever:	
Houston.....	1
Syphilis:	
Houston.....	27
Humble.....	1

## CAMP LOGAN ZONE, TEX.—continued.

Trachoma:	Cases.
Houston.....	1
Tuberculosis:	
Houston.....	6
Whooping cough:	
Houston.....	1

## CAMP MACARTHUR ZONE, TEX.

Waco:	
Chicken pox.....	8
Measles.....	15
Mumps.....	50
Pneumonia, lobar.....	3
Scarlet fever.....	2
Smallpox.....	2
Typhoid fever.....	4
Whooping cough.....	6

## CAMP M'CLELLAN ZONE, ALA.

Chicken pox:	
Anniston.....	6
Oxford.....	1
Diphtheria:	
Anniston.....	1
Measles:	
Precinct 2.....	7
Mumps:	
Anniston.....	3
Pneumonia:	
Anniston.....	1
Scarlet fever:	
Anniston.....	1
Smallpox:	
Anniston.....	7
Oxford.....	2
Jacksonville.....	1
Precinct 4.....	1
Tuberculosis:	
Anniston.....	1

## NORFOLK COUNTY NAVAL DISTRICT, VA.

Diphtheria:	
Portsmouth.....	1
Port Norfolk.....	1
Measles:	
Portsmouth.....	7
Ocean View.....	1
Mumps:	
Portsmouth.....	1
Pneumonia:	
Portsmouth.....	4
Port Norfolk.....	1
Gilmerton.....	3
Scarlet fever:	
West Norfolk.....	1
Willoughby.....	1
Tetanus:	
Portsmouth.....	1
Tuberculosis:	
Portsmouth.....	3
Whooping cough:	
Oakwood.....	3
Ocean View.....	1

## CAMP PIKE ZONE, ARK.

	Cases.
Chancroid:	
Little Rock.....	1
Chicken pox:	
Little Rock.....	4
Diphtheria:	
Little Rock.....	1
German measles:	
Little Rock.....	1
Gonorrhea:	
Scotts.....	3
Little Rock.....	17
North Little Rock.....	2
Malaria:	
Little Rock.....	2
North Little Rock.....	3
Levy.....	1
Measles:	
Kerr.....	1
Little Rock.....	5
North Little Rock.....	1
Mumps:	
Little Rock.....	20
North Little Rock.....	1
Pellagra:	
Keo.....	1
Scotts.....	1
Pneumonia:	
Little Rock.....	4
North Little Rock.....	6
Galloway.....	1
Scarlet fever:	
Little Rock.....	4
Smallpox:	
Little Rock.....	15
North Little Rock.....	3
Syphilis:	
Scotts.....	7
Little Rock.....	7
Trachoma:	
Little Rock.....	1
Tuberculosis:	
Little Rock.....	2
North Little Rock.....	3
Scotts.....	1
Kerr.....	1
Keo.....	2
Typhoid fever:	
Little Rock.....	1
Whooping cough:	
Little Rock.....	4
North Little Rock.....	1

## CAMP SEVIER ZONE, S. C.

Cerebrospinal meningitis:	
Butler Township.....	1
Measles:	
Chicksprings Township.....	1
Mumps:	
Chicksprings Township.....	1
Pneumonia:	
Chicksprings Township.....	1
Whooping cough:	
Greenville Township.....	1

## CAMP SHELBY ZONE, MISS.

	Cases.
Matllesburg:	
Malaria.....	1
Mumps.....	18
Pellagra.....	1
Pneumonia, lobar.....	3
Scarlet fever.....	1
Tuberculosis.....	1
Whooping cough.....	10
Richton, Perry County:	
Chicken pox.....	2
Smallpox.....	3

## CAMP SHERIDAN ZONE, ALA.

Montgomery:	
Chancroid.....	1
Chicken pox.....	1
Diphtheria.....	1
Gonorrhea.....	6
Measles.....	9
Mumps.....	4
Pneumonia.....	1
Ringworm.....	2
Smallpox.....	2
Syphilis.....	2
Whooping cough.....	3
Rural district in 5-mile zone:	
Measles.....	3
Smallpox.....	1

## CAMP SHERMAN ZONE, OHIO.

Diphtheria:	
Chillicothe.....	2
Measles:	
Chillicothe.....	4
Jefferson Township.....	6
Mumps:	
Chillicothe.....	7
Liberty Township.....	4
Pneumonia, lobar:	
Clarksburg.....	1
Scarlet fever:	
Chillicothe.....	8
South Salem.....	2
Union Township.....	3
Smallpox:	
Chillicothe.....	3
Franklin Township.....	1
Tuberculosis:	
Chillicothe.....	1

## CAMP ZACHARY TAYLOR ZONE, KY.

Jefferson County:	
Diphtheria.....	3
Measles.....	3
Pneumonia, lobar.....	2
Rabies in animals.....	1
Trachoma.....	1
Tuberculosis, pulmonary.....	5
Louisville:	
Cerebrospinal meningitis.....	2
Chicken pox.....	1
Diphtheria.....	4
Measles.....	17
Mumps.....	1

## CAMP ZACHARY TAYLOR ZONE, KY.—continued.

Louisville—Continued.	Cases.
Pneumonia.....	3
Scarlet fever.....	5
Smallpox.....	3
Trachoma.....	1
Tuberculosis, pulmonary.....	21
Typhoid fever.....	1

## TIDEWATER HEALTH DISTRICT, VA.

Cerebrospinal meningitis:	
Newport News.....	3
Hampton.....	2
Chicken pox:	
Newport News.....	3
Diphtheria:	
Newport News.....	1
German measles:	
Newport News.....	3
Measles:	
Newport News.....	7
Hampton.....	5
Phoebus.....	7
Mumps:	
Newport News.....	4
Phoebus.....	2
Smallpox:	
Newport News.....	1
Typhoid fever:	
Hampton.....	1

## CAMP TRAVIS ZONE, TEX.

San Antonio:	
Cerebrospinal meningitis.....	1
Chancroid.....	1
Diphtheria.....	1
Gonorrhea.....	22
Measles.....	4
Mumps.....	5
Pneumonia.....	6

## CAMP TRAVIS ZONE, TEX.—continued.

San Antonio—Continued.	Cases.
Syphilis.....	3
Tuberculosis.....	9
Whooping cough.....	2

## CAMP WADSWORTH ZONE, S. C.

Chicken pox:	
Spartanburg.....	2
German measles:	
Spartanburg Junction.....	1
Pauline.....	2
Measles:	
Spartanburg.....	5
Saxon Mills.....	1
Glenn Springs.....	2
Mumps:	
Spartanburg.....	4
Glenn Springs.....	1
Pneumonia:	
Spartanburg.....	1
Scarlet fever:	
Spartanburg.....	1
Smallpox:	
Spartanburg.....	1
Whooping cough:	
Spartanburg.....	14
Drayton Mills.....	3

## CAMP WHEELER ZONE, GA.

Macon:	
Chicken pox.....	1
Measles.....	3
Mumps.....	9
Pneumonia.....	2
Scarlet fever.....	1
Smallpox.....	2
Tuberculosis.....	1
East Macon:	
Mumps.....	5

## DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General, United States Army, for the week ended March 22, 1918:

Annual admission rate per 1,000 (disease only):	Noneffective rate per 1,000 on day of report—Continued.
All troops.....	1,464.2
National Guard camps.....	893.6
National Army camps.....	1,870.0
Regular Army.....	1,390.2
Noneffective rate per 1,000 on day of report:	
All troops.....	48.7
National Guard camps.....	37.8
National Army camps.....	57.0
Regular Army.....	43.0
Annual death rate per 1,000 (disease only):	
All troops.....	8.9
National Guard camps.....	2.8
National Army camps.....	13.1
Regular Army.....	9.3

## New cases of special diseases reported during the week ended Mar. 22, 1918.

Camp.	Pneumonia.	Dysentery.	Malaria.	Veneral.	Measles.	Meningitis.	Scarlet fever.	Deaths.	Annual admission rate per 1,000 (disease only).	Non-effective per 1,000 on day of report.
Wadsworth.....	9			12	1		6	2	381.5	21.7
Hancock.....	7			15	6	1	2	2	355.8	24.1
McClellan.....	5		2	15	5		1	0	732.5	28.2
Sevier.....	3		1	18				1	1,056.5	45.5
Wheeler.....	4		6	28				1	964.6	37.6
Logan.....	7			54	4			0	1,036.7	39.2
Cody.....	9			7	1			2	483.6	32.6
Doniphan.....				16	1	2	1	1	1,484.2	44.3
Bowie.....	21			26				4	1,529.2	57.0
Sheridan.....	1			21			2	0	433.9	24.0
Shelby.....	4			13	2	1		1	935.3	46.4
Beauregard.....	5		20	17	1			3	1,234.7	53.9
Kearney.....	1			10	5		11	3	1,374.6	47.2
Devens.....	11			12	8		1	2	1,292.6	48.4
Upton.....	35			48	7	3	1	12	1,118.2	30.7
Dix.....	20	1	1	19	5	1	5	4	1,851.3	44.0
Meade.....	29			7	6		5	8	911.8	34.0
Lee.....	11			238			5	10	1,877.6	63.3
Jackson.....	15		2	24	3	10		5	1,547.0	53.2
Gordon.....	7		2	32	12			0	1,488.6	44.5
Sherman.....	23			41	13		20	13	1,888.1	58.9
Taylor.....	12			52	122	1		9	2,228.0	71.5
Custer.....	1			15			7	5	1,454.2	41.3
Grant.....	9			17	14	1	10	4	753.1	28.3
Pike.....	19	2	3	185	18		6	10	2,911.6	75.3
Dodge.....	33			37	110		22	11	3,077.6	78.5
Funston.....	28			17	6	4	1	14	3,004.9	86.8
Travis.....	26			50	53			7	2,761.6	71.9
Lewis.....	8			27	40		23	3	1,600.7	83.4
Northeastern Department.....				16	5			0	1,128.3	33.1
Eastern Department.....	14			40	15		1	6	1,625.2	30.4
Southeastern Department.....	21		1	41	11	2	2	4	890.1	40.9
Central Department.....	17			29	38		14	9	1,507.3	43.4
Southern Department.....	10			94	23		8	5	1,176.8	43.3
Western Department.....	2		1	24	7	2	11	1	844.3	26.8
Aviation, S. C.....	49			128	119	7	48	32	1,626.0	48.9
Camp Greene.....	3			48	27	1	6	2	800.5	27.8
Camp Fremont.....				42	12		1	0	1,423.1	53.3
El Paso.....	1			7	4		1	0	1,127.1	7.9
Columbus Barracks.....				31	1		2	0	2,046.8	50.7
Jefferson Barracks.....	12			67	20		3	4	2,957.0	99.3
Fort Logan.....	4			2	2		2	0	2,714.1	93.1
Fort McDowell.....	1		2	13	11			0	2,602.9	55.2
Fort Slocum.....	17			11	1			4	2,548.9	51.8
Fort Thomas.....	1			6				0	1,289.6	58.5
D. B. Alcatraz.....								0	648.0	6.2
D. B. Fort Leavenworth.....								0	9,059.6	133.0
A. A. Humphreys.....	1			4				0	982.9	11.2
J. E. Johnston.....	1		1	15		1		1	829.2	33.5
Camp Merritt.....	16		2	49	5		6	11	1,254.0	63.9
Camp Stuart.....	12			29	6		1	7	1,783.3	47.4
West Point, N. Y.....					2			0	2,614.5	19.8
Edgewood.....	1			4				0	2,865.8	30.4
General hospitals.....	1		1	42	1		1	2		
National Guard departments.....			1	10	17		1	1		
National Army departments.....	16		1	58	53	1	29	5		
Total.....	563	3	47	1,883	825	38	266	231	11,464.2	148.7

1 All troops.



*Annual rate per 1,000 for special diseases.*

Disease.	All troops in United States. <sup>1</sup>	Regulars in United States. <sup>1</sup>	National Guard, all camps. <sup>1</sup>	National Army, all camps. <sup>1</sup>	Expedi- tionary Forces. <sup>2</sup>
Pneumonia.....	23.5	22.4	11.9	33.3	36.2
Dysentery.....	.1	.0	.0	.3	.7
Malaria.....	1.9	.8	4.5	.9	.0
Venereal.....	78.5	85.9	39.4	95.3	46.2
Paratyphoid.....	.04	.0	.0	.1	.0
Typhoid.....	.1	.0	.0	.3	.2
Measles.....	34.4	37.9	4.0	48.6	16.5
Meningitis.....	1.6	1.6	.6	2.3	2.5
Scarlet fever.....	11.1	13.0	3.6	12.3	30.9

<sup>1</sup> Week ended Mar. 22, 1918.<sup>2</sup> Week ended Mar. 14, 1918.**CURRENT STATE SUMMARIES.****Alabama.**

From Collaborating Epidemiologist Perry, by telegraph, for week ended March 30, 1918:

Jefferson County: Smallpox 52, meningitis 5. No other unusual prevalence.

**Arkansas.**

From Collaborating Epidemiologist Garrison, by telegraph, for week ended March 30, 1918:

Smallpox: Helena 2, Forest City 4, Dumas 1, Pine Bluff 5, Monroe County 4, Sebastian 1, Woodruff 1, Ashley 17, Jefferson 3, Izard 7. Malaria: Cabot 2, Wilmot 4, Rison 1, Osceola 1, Sebastian 5, Johnson 2, Ashley 5, Drew 13, Jefferson 3, Izard 2, Phillips 1. Measles: Wilmot 2, Helena 1, Forest City 3, Sebastian 78, Johnson 4, Ashley 19, Drew 9. Pine Bluff 3, Phillips 1, Izard 4. Chicken pox: Prairie Grove 2, Sebastian 34. Johnson 4, Phillips 2. Diphtheria: Pine Bluff 1, Sebastian 1. Typhoid: Jefferson 1, Sebastian 2. Scarlet fever: Sebastian 5. Meningitis: Woodruff 1. Tuberculosis: Wilmot 2, Helena 1, Sebastian 1, Ashley 2, Jefferson 1.

**California.**

From the State Board of Health of California, by telegraph, for week ended March 30, 1918:

Eleven cases epidemic cerebrospinal meningitis; 3 San Francisco, 3 San Diego, 2 Los Angeles city, 1 Los Angeles County, 1 Monrovia, 1 San Diego County. Fourteen cases smallpox, 7 of which were in Los Angeles County. One case leprosy at Visalia. Measles still epidemic throughout California.

Reported by mail for preceding week (ended Mar. 23):

Cerebrospinal meningitis.....	5	Mumps.....	170
Chicken pox.....	149	Pneumonia.....	61
Diphtheria.....	82	Scarlet fever.....	61
Erysipelas.....	16	Smallpox.....	29
German measles.....	396	Syphilis.....	53
Gonococcus infection.....	36	Trachoma.....	2
Leprosy.....	2	Tuberculosis.....	141
Malaria.....	7	Typhoid fever.....	13
Measles.....	1, 234	Whooping cough.....	122

**Illinois.**

From the State Board of Health of Illinois, by telegraph, for week ended March 30, 1918:

Smallpox: One hundred and fifty-eight new cases; prevalent in Quincy, Edgar, and Elbridge Township (Edgar County), Springfield, East St. Louis, Duquoin, Alton, Belleville, Sullivan, White City, and Chicago. Diphtheria: One hundred and eighty-five cases, of which 144 in Chicago. Scarlet fever: One hundred and thirty-six of which 68 cases in Chicago, other cases widely distributed. Epidemic meningitis: Fourteen cases; Chicago, 12; Thompsonville 1, and 1 in Mount Pleasant Township (Warren County). Poliomyelitis: Oak Park 1, Springfield 1. Measles and German measles increasing.

**Indiana.**

From the State Board of Health of Indiana, by telegraph, for week ended March 30, 1918:

Scarlet fever: Epidemic Chamberlain school, Elkhart County, Brook. Measles: Epidemic Martinsville and Morgan County. Smallpox: Epidemic Waverly, Reynolds. Rabies: Epidemic (dogs) Evansville, Orange County.

**Kansas.**

From Collaborating Epidemiologist Crumbine, by telegraph, for week ended March 30, 1918:

Meningitis: Coffeyville 1, Corbin 1, Kansas City 4, Lakin 1 (suspect), Manhattan 1, Sabetha 1, Wichita 2. Smallpox, over 10 cases: In counties—Butler 34, Crawford 21, Elk 25, Miami 11; in cities—Kansas City 66, Salina 22, Wichita 37. Scarlet fever, over 10 cases: In counties—Clay 15, Stafford 15.

**Louisiana.**

From Collaborating Epidemiologist Dowling, by telegraph, for week ended March 30, 1918:

Meningitis, excluding Rapides Parish: Ascension Parish 1, Caddo 1, De Soto 1, Calcasieu 1, Pointe Coupee 1.

**Massachusetts.**

From Collaborating Epidemiologist Kelley, by telegraph, for week ended March 30, 1918:

Unusual prevalence. German measles: Framingham 31, Newton 24. Measles: Beverly 55, Quincy 25. Smallpox: At Tewkesbury State Infirmary.

**Minnesota.**

From Collaborating Epidemiologist Bracken, by telegraph, for week ended March 30, 1918:

Smallpox, new foci: Aitkin County, Pliny Township 1; Hennepin County, Hassan Township 13; Roseau County, Mickinock Township 2; Grimstad Township 1; Stearns County, Sartell village 5; Wadena County, Aldrich Township 1. Five cerebrospinal meningitis reported since March 25.

**South Carolina.**

From Collaborating Epidemiologist Hayne, by telegraph, for week ended March 30, 1918:

Five cases meningitis, 1 suspected case.

**Vermont.**

From Collaborating Epidemiologist Dalton, by telegraph, for week ended March 30, 1918:

Mumps prevalent in Burlington. One case epidemic meningitis Castleton.

**Virginia.**

From Collaborating Epidemiologist Traynham, by telegraph, for week ended March 30, 1918:

Ten cases smallpox Bedford County, 1 Loudon, 5 Newport News. One case poliomyelitis Rockingham, 1 Shenandoah. One case cerebrospinal meningitis Petersburg, 3 cases Newport News.

**Washington.**

From Collaborating Epidemiologist Tuttle, by telegraph, for week ended March 30, 1918:

Unusual prevalence contagious diseases. La Center, Clarke County, 1 case epidemic cerebrospinal meningitis. Tacoma, 48 cases scarlet fever.

**CEREBROSPINAL MENINGITIS.****State Reports for February, 1918.**

Place.	New cases reported.	Place.	New cases reported.
Colorado:		Kansas:	
Sedgwick County.....	1	Chautauqua County—	
Iowa:		Niotaze.....	1
Boone County.....	1	Cherokee County—	
Dallas County.....	1	Columbus.....	1
Polk County.....	4	Crawford County—	
Pottawattamie County.....	2	Cherokee.....	1
Scott County.....	1	Pittsburg.....	1
Van Buren County.....	1	Ellsworth County—	
Wapello County.....	1	Ellsworth.....	1
Washington County.....	1	Kanopolis.....	1
Total.....	12	Geary County—	
Kansas:		Junction City.....	2
Brown County—		Greenwood County—	
Hiawatha.....	1	Madison.....	2
Butler County—		Harper County—	
Augusta.....	2	Harper.....	1
El Dorado.....	3	Jefferson County—	
Leon.....	1	McLouth.....	2
		Jewell County—	
		Burr Oak.....	1
		Ionia.....	1

## CEREBROSPINAL MENINGITIS—Continued.

## State Reports for February, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Kansas—Continued.</b>		<b>New Jersey—Continued.</b>	
Kiowa County—		Passaic County.....	2
Greensburg.....	1	Union County.....	2
Leavenworth County—		<b>Total.....</b>	<b>25</b>
Leavenworth.....	1		
McPherson County—		<b>Pennsylvania:</b>	
McPherson.....	1	Allegheny County.....	15
Miami County—		Berks County.....	1
Paola.....	1	Cambria County.....	2
Montgomery County—		Clearfield County.....	1
Coffeyville.....	1	Delaware County.....	5
Dearing.....	2	Lackawanna County.....	1
Morris County—		Lawrence County.....	1
Council Grove.....	1	Lebanon County.....	2
Nemaha County—		Luzerne County.....	4
Seneca.....	1	Northampton County.....	1
Neosho County—		Philadelphia County.....	3
St. Paul.....	1	Potter County.....	1
Pottawatomie County—		Somerset County.....	1
Emmett.....	2	Tioga County.....	1
Rice County—		Union County.....	1
Little River.....	2	Washington County.....	2
Riley County—		<b>Total.....</b>	<b>42</b>
Manhattan.....	5		
Saline County—		<b>Rhode Island:</b>	
Brookville.....	1	North Providence.....	1
Sedgwick County—		Providence.....	6
Wichita.....	2	<b>Total.....</b>	<b>7</b>
Shawnee County—			
Topeka.....	1	<b>South Carolina:</b>	
Wyandotte County—		Ableville County.....	2
Kansas City.....	6	Aiken County.....	1
<b>Total.....</b>	<b>51</b>	Anderson County.....	4
		Calhoun County.....	2
<b>Mississippi:</b>		Charleston County.....	12
Bolivar County.....	5	Cherokee County.....	3
Calhoun County.....	1	Chesterfield County.....	2
Carroll County.....	1	Dillon County.....	2
Coahoma County.....	13	Edgefield County.....	1
Copiah County.....	2	Florence County.....	2
Forrest County.....	4	Greenville County.....	16
Harrison County.....	3	Greenwood County.....	1
Hinds County.....	1	Lancaster County.....	1
Madison County.....	1	Laurens County.....	5
Panola County.....	1	Lexington County.....	1
Perry County.....	2	Marion County.....	6
Quitman County.....	1	Mariboro County.....	4
Tallahatchie County.....	1	Newberry County.....	4
Tippah County.....	1	Orangeburg County.....	2
Tishomingo County.....	3	Pickens County.....	1
<b>Total.....</b>	<b>40</b>	Richland County.....	25
		Spartanburg County.....	7
<b>Nebraska:</b>		Union County.....	3
Cuming County.....	1	<b>Total.....</b>	<b>107</b>
Nuckolls County.....	2		
Pawnee County.....	1	<b>South Dakota:</b>	
<b>Total.....</b>	<b>4</b>	Codington County.....	2
		Sully County.....	1
<b>New Jersey:</b>		Turner County.....	1
Bergen County.....	4	Walworth County.....	1
Burlington County.....	2	<b>Total.....</b>	<b>5</b>
Essex County.....	11		
Hudson County.....	2		
Mercer County.....	2		

## CEREBROSPINAL MENINGITIS—Continued.

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.	3		Manchester, N. H.	1	
Anniston, Ala.	1		Memphis, Tenn.		1
Atlanta, Ga.	1	3	Milwaukee, Wis.	3	1
Baltimore, Md.	5	3	Minneapolis, Minn.		1
Birmingham, Ala.	4	2	Muncie, Ind.	1	
Boston, Mass.	4	2	Nashville, Tenn.	1	1
Brockton, Mass.	1		New Orleans, La.	1	1
Charleston, S. C.	3		New York, N. Y.	16	12
Chattanooga, Tenn.	1	1	North Little Rock, Ark.	4	4
Chelsea, Mass.	1	1	Oakland, Cal.	2	1
Chicago, Ill.	4	2	Omaha, Nebr.		1
Chillicothe, Ohio.	1		Petersburg, Va.	1	
Cincinnati, Ohio.	2	2	Philadelphia, Pa.	8	3
Cleveland, Ohio.	3		Pittsburgh, Pa.		1
Columbia, S. C.	1		Saginaw, Mich.		1
Des Moines, Iowa.	1	1	St. Joseph, Mo.	1	1
Detroit, Mich.	7		St. Louis, Mo.	4	2
Fall River, Mass.		1	San Francisco, Cal.	1	
Greenville, S. C.	1		Schenectady, N. Y.	1	
Indianapolis, Ind.	3	1	Scranton, Pa.	1	
Jersey City, N. J.	1	1	Somerville, Mass.		1
Kansas City, Kans.	2	1	Springfield, Ill.	1	
Kansas City, Mo.	9	2	Tacoma, Wash.	1	
Little Rock, Ark.	1		Washington, D. C.	3	2
Los Angeles, Cal.	1		Wichita, Kans.	1	1
Louisville, Ky.	4	1	Wilkes-Barre, Pa.		1
Lowell, Mass.	3	1	Wilmington, Del.	1	1
Macon, Ga.		1	Worcester, Mass.	1	

## DIPHThERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 515.

## ERYSIPELAS.

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.	2		New York, N. Y.		5
Atlanta, Ga.	1	2	Northampton, Mass.	1	1
Baltimore, Md.	2		Omaha, Nebr.	2	
Bayonne, N. J.	1		Philadelphia, Pa.	13	
Berkeley, Cal.	1		Pittsburgh, Pa.	7	
Boston, Mass.		1	Pontiac, Mich.	1	
Chicago, Ill.	20	2	Portland, Me.		1
Cincinnati, Ohio.	2		Portland, Oreg.	2	
Cleveland, Ohio.	6		Providence, R. I.		1
Cumberland, Md.	1		Racine, Wis.	1	
Denver, Colo.	6		Reading, Pa.	2	
Detroit, Mich.	2	1	Richmond, Va.	4	1
Duluth, Minn.		1	Rochester, N. Y.	2	
Fall River, Mass.		1	Sacramento, Cal.		1
Hartford, Conn.	2		St. Louis, Mo.	12	1
Houston, Tex.		1	St. Paul, Minn.	2	1
Jacksonville, Fla.	1		San Francisco, Cal.	4	1
Kansas City, Mo.	2		Scranton, Pa.	1	
Lincoln, Nebr.		1	Somerville, Mass.		1
Los Angeles, Cal.	4	1	Wheeling, W. Va.	1	1
Louisville, Ky.	5	1	Wilkesburg, Pa.	1	
Malden, Mass.		1	Winston-Salem, N. C.	1	
Memphis, Tenn.	1		Yonkers, N. Y.	1	1
Milwaukee, Wis.	3		York, Pa.	2	
Newark, N. J.	2				

**INFLUENZA.****Kansas—Haskell.**

On March 30, 1918, the occurrence of 18 cases of influenza of severe type, from which 3 deaths resulted, was reported at Haskell, Kans.

**LEPROSY.****City Report for Week Ended Mar. 16, 1918.**

There was reported during the week ended March 16, 1918, one case of leprosy at New Orleans, La.

**MALARIA.****State Reports for February, 1918.**

Place.	New cases reported.	Place.	New cases reported.
Colorado:		Mississippi—Continued.	
Larimer County.....	1	Neshoba County.....	50
Mississippi:		Newton County.....	20
Adams County.....	19	Noxubee County.....	10
Alcorn County.....	12	Oktibbeha County.....	44
Amite County.....	57	Panola County.....	60
Attala County.....	70	Pearl River.....	24
Benton County.....	5	Perry County.....	89
Bolivar County.....	407	Pike County.....	76
Calhoun County.....	19	Pontotoc County.....	66
Carroll County.....	153	Prentiss County.....	25
Chickasaw County.....	12	Quitman County.....	154
Choctaw County.....	14	Rankin County.....	28
Claiborne County.....	39	Scott County.....	13
Clarke County.....	27	Sharkey County.....	56
Clay County.....	12	Simpson County.....	40
Coahoma County.....	274	Smith County.....	23
Copiah County.....	38	Stone County.....	14
Covington County.....	104	Sunflower.....	139
De Soto County.....	43	Tallahatchie County.....	64
Forrest County.....	21	Tate County.....	78
Franklin County.....	33	Tippah County.....	30
George County.....	15	Tishomingo County.....	45
Green County.....	11	Tunica County.....	122
Grenada County.....	9	Union County.....	21
Hancock County.....	19	Walthall County.....	3
Harrison County.....	59	Warren County.....	127
Hinds County.....	78	Washington County.....	138
Holmes County.....	118	Wayne County.....	18
Issaquena County.....	45	Webster County.....	8
Itawamba County.....	22	Wilkinson County.....	10
Jackson County.....	38	Winston County.....	86
Jasper County.....	68	Yalobusha County.....	47
Jefferson County.....	40	Yazoo County.....	244
Jefferson Davis County.....	25	Total.....	4,659
Jones County.....	36	New Jersey:	
Komper County.....	19	Burlington County.....	1
Lafayette County.....	17	Essex County.....	1
Lamar County.....	43	Total.....	2
Lauderdale County.....	11	South Carolina:	
Lawrence County.....	48	Beaufort County.....	8
Leake County.....	21	Chester County.....	12
Lee County.....	87	Dorchester County.....	10
Leflore County.....	248	Laurens County.....	1
Lincoln County.....	29	Marlboro County.....	1
Lowndes County.....	30	Williamsburg County.....	3
Madison County.....	16	Total.....	35
Marion County.....	99		
Marshall County.....	24		
Monroe County.....	30		
Montgomery County.....	23		

## MALARIA—Continued.

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga.....	1	.....	New York, N. Y.....	.....	1
Dallas, Tex.....	.....	1	North Little Rock, Ark.....	2	.....
Hattiesburg, Miss.....	1	.....	Richmond, Va.....	1	.....
Jackson, Miss.....	4	.....	Stockton, Cal.....	1	.....
Jersey City, N. J.....	1	.....	Wilmington, N. C.....	1	.....
Little Rock, Ark.....	3	.....			

## MEASLES.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 515.

## PELLAGRA.

## State Reports for February, 1918.

Place.	New cases reported.	Place.	New cases reported.
Mississippi:		Mississippi—Continued.	
Adams County.....	8	Marshall County.....	7
Alcorn County.....	2	Monroe County.....	3
Amite County.....	1	Montgomery County.....	2
Bolivar County.....	36	Neshoba County.....	7
Calhoun County.....	2	Oktibbeha County.....	4
Carroll County.....	2	Panola County.....	7
Chickasaw County.....	8	Pearl River County.....	1
Choctaw County.....	2	Perry County.....	7
Claiborne County.....	1	Pike County.....	8
Clay County.....	5	Pontotoc County.....	5
Coahoma County.....	25	Quitman County.....	11
Copiah County.....	5	Rankin County.....	1
Covington County.....	5	Sharkey County.....	1
De Soto County.....	7	Smith County.....	3
Forrest County.....	2	Sunflower County.....	4
Franklin County.....	2	Tallahatchie County.....	9
George County.....	4	Tate County.....	1
Green County.....	3	Tippah County.....	2
Hancock County.....	1	Tunica County.....	7
Harrison County.....	1	Union County.....	2
Hinds County.....	20	Walsh County.....	1
Holmes County.....	4	Warren County.....	3
Issaquena County.....	1	Wayne County.....	2
Ittawamba County.....	6	Webster County.....	1
Jasper County.....	1	Wilkinson County.....	1
Jefferson County.....	1	Winston County.....	2
Jefferson Davis County.....	4	Yazoo County.....	12
Jones County.....	6		
Kemper County.....	2	Total.....	321
Lamar County.....	1		
Lauderdale County.....	6	South Carolina:	
Lawrence County.....	1	Laurens County.....	2
Lee County.....	9	Marion County.....	1
Leflore County.....	7	Spartanburg County.....	3
Lincoln County.....	6	Williamsburg County.....	1
Lowndes County.....	6		
Marion County.....	4	Total.....	7

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga.....	.....	2	Michigan City, Ind.....	1	1
Baltimore, Md.....	.....	1	Nashville, Tenn.....	.....	1
Birmingham, Ala.....	5	.....	New Orleans, La.....	.....	2
Charlotte, N. C.....	1	.....	San Diego, Cal.....	1	.....
Dallas, Tex.....	1	.....	Spartanburg, S. C.....	1	.....
Fort Worth, Tex.....	1	1	Washington, D. C.....	1	.....
Jacksonville, Fla.....	1	.....	Winston-Salem, N. C.....	2	.....
Lexington, Ky.....	.....	1	Worcester, Mass.....	1	.....
Memphis, Tenn.....	1	.....			

## PNEUMONIA.

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	5	—	Louisville, Ky.....	1	8
Alameda, Cal.....	3	3	Lowell, Mass.....	4	6
Ann Arbor, Mich.....	1	—	Lynn, Mass.....	11	3
Atlanta, Ga.....	2	4	Macon, Ga.....	3	3
Baltimore, Md.....	95	28	Malden, Mass.....	5	1
Battle Creek, Mich.....	1	—	Manchester, N. H.....	3	3
Boston, Mass.....	38	29	McKeesport, Pa.....	5	—
Braddock, Pa.....	1	—	Muskegon, Mich.....	2	1
Bridgeport, Conn.....	4	18	Newark, N. J.....	71	22
Brockton, Mass.....	4	3	New Bedford, Mass.....	4	1
Cambridge, Mass.....	10	3	Newburgh, N. Y.....	1	1
Chelsea, Mass.....	9	3	Newburyport, Mass.....	2	—
Chicago, Ill.....	427	143	Newport, Ky.....	2	2
Chicopee, Mass.....	2	—	Newton, Mass.....	5	4
Cleveland, Ohio.....	26	22	Northampton, Mass.....	2	1
Clinton, Mass.....	2	—	North Little Rock, Ark.....	1	1
Columbia, S. C.....	1	—	Oakland, Cal.....	5	12
Detroit, Mich.....	11	50	Oak Park, Ill.....	2	2
Easton, Pa.....	2	—	Parkersburg, W. Va.....	2	1
Everett, Mass.....	4	2	Pasadena, Cal.....	2	—
Fall River, Mass.....	5	3	Philadelphia, Pa.....	180	116
Fort Worth, Tex.....	6	6	Pittsburgh, Pa.....	37	31
Grand Rapids, Mich.....	13	1	Pontiac, Mich.....	4	1
Harrisburg, Pa.....	2	6	Quincy, Mass.....	1	3
Harrison, N. J.....	1	—	Reading, Pa.....	1	—
Haverhill, Mass.....	4	1	Richmond, Va.....	1	8
Houston, Tex.....	3	5	Rochester, N. Y.....	16	8
Jackson, Mich.....	3	1	St. Joseph, Mo.....	2	3
Jackson, Miss.....	1	—	Salem, Mass.....	1	—
Jacksonville, Fla.....	2	1	San Diego, Cal.....	3	2
Johnstown, Pa.....	4	3	San Francisco, Cal.....	12	13
Kalamazoo, Mich.....	3	1	Schenectady, N. Y.....	8	2
Kansas City, Kans.....	3	—	Somerville, Mass.....	6	1
Kansas City, Mo.....	9	15	Springfield, Mass.....	13	4
Lancaster, Pa.....	1	—	Springfield, Ohio.....	2	1
Lawrence, Mass.....	4	4	Stockton, Cal.....	3	—
Leavenworth, Kans.....	2	—	Waco, Tex.....	4	1
Lincoln, Nebr.....	1	1	Wichita, Kans.....	2	1
Little Rock, Ark.....	11	1	Wilkinsburg, Pa.....	1	1
Long Beach, Cal.....	2	1	Worcester, Mass.....	4	4
Los Angeles, Cal.....	7	4	Yonkers, N. Y.....	3	2

## POLIOMYELITIS (INFANTILE PARALYSIS).

## State Reports for February, 1918.

Place.	New cases reported.	Place.	New cases reported.
Colorado:		Pennsylvania:	
Delta County.....	1	Allegheny County.....	4
Iowa:		Armstrong County.....	1
Clayton County.....	1	Mercer County.....	1
Dickinson County.....	1	Northampton County.....	1
Total.....	2	Total.....	7
Mississippi:		Rhode Island:	
Marion County.....	1	Providence.....	1
Tishomingo County.....	1	South Dakota:	
Total.....	2	Roberts County.....	1
New Jersey:			
Essex County.....	3		
Hudson County.....	1		
Total.....	4		



**POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.****City Reports for Week Ended Mar. 16, 1918.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Boston, Mass.....	1	.....	Lynchburg, Va.....	1	.....
Chicago, Ill.....	2	1	Milwaukee, Wis.....	6	.....
Columbus, Ohio.....	2	1	Pawtucket, R. I.....	.....	4

**RABIES IN ANIMALS.****City Reports for Week Ended Mar. 16, 1918.**

Place.	Cases.	Place.	Cases.
Charleston, S. C.....	1	Kokomo, Ind.....	3
Detroit, Mich.....	1	Newark, N. J.....	1
Jacksonville, Fla.....	1	St. Paul, Minn.....	1
Kansas City, Mo.....	1		

**SCARLET FEVER.**

See Diphtheria, measles, scarlet fever, and tuberculosis, page 515.

**SMALLPOX.****New Jersey—Atlantic City.**

During the period from February 13 to March 28, 1918, 17 cases of smallpox of mild type were notified at Atlantic City, N. J.

**Kansas Report for February, 1918.**

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Kansas:</b>						
Allen County—						
Humboldt.....	3	.....			3	.....
Iola.....	11	.....			9	2
Anderson County—						
Colony.....	7	.....			7	.....
Kincaid.....	1	.....		1	.....	.....
Westphalia.....	2	.....			2	.....
Atchison County—						
Atchison.....	2	.....		2	.....	.....
Huron.....	1	.....			1	.....
Muscotah.....	1	.....			1	.....
Potter.....	1	.....			1	.....
Barton County—						
Great Bend.....	9	.....		1	7	1
Heizer.....	1	.....			1	.....
Hoisington.....	1	.....			1	.....
Pawnee Rock.....	8	.....			8	.....
Bourbon County—						
Bronson.....	3	.....			3	.....
Fort Scott.....	6	.....			6	.....
Fulton.....	7	.....			7	.....
Hammond.....	1	.....			1	.....
Mapleton.....	2	.....			2	.....
Brown County—						
Hiawatha.....	18	.....			18	.....
Horton.....	6	.....			5	1

## SMALLPOX—Continued.

## Kansas Report for February, 1918—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Kansas—Continued.						
Butler County—						
Augusta.....	7				7	
Benton.....	1			1		
Douglass.....	3		1		2	
Eldorado.....	26				26	
Rose Hill.....	1				1	
Chase County—						
Cottonwood Falls.....	2			1	1	
Chautauqua County—						
Chautauqua.....	1			1		
Cherokee County—						
Baxter Springs.....	10				10	
Columbus.....	3				3	
Crestline.....	1				1	
Galena.....	25			1	23	1
Mineral.....	5				5	
Scammon.....	5				5	
Skidmore.....	3				3	
Treece.....	22				22	
Turk.....	2				2	
Weir.....	1				1	
Clark County—						
Minneola.....	1				1	
Clay County—						
Clay Center.....	2				2	
Wakefield.....	1				1	
Cloud County—						
Clyde.....	5				5	
Courtland.....	1				1	
Hollis.....	2				2	
Coffey County—						
Burlington.....	2				2	
Hartford.....	1				1	
Le Roy.....	5				5	
Cowley County—						
Arkansas City.....	39			1	37	1
Cambridge.....	7				7	
Grand Summit.....	3				3	
Cowley County—						
Geuda Springs.....	1				1	
Maple City.....	1				1	
Rock.....	1				1	
Winfield.....	8				8	
Crawford County—						
Arcadia.....	1				1	
Arma.....	18				17	1
Cherokee.....	1				1	
Frontenac.....	10				10	
Girard.....	31		1	1	29	
Pittsburg.....	46				46	
Radley.....	2				2	
Ringo.....	1			1		
Walnut.....	1				1	
Decatur County—						
Danbury, Nebr., R. D.....	1				1	
Oberlin.....	1				1	
Dickinson County—						
Abilene.....	3				3	
Chapman.....	1				1	
Herington.....	1				1	
Doniphan County—						
Troy.....	1				1	
Wathena.....	1				1	
White Cloud.....	1				1	
Douglas County—						
Baldwin.....	2				2	
Eudora.....	7				7	
Lawrence.....	14				13	1
Ellis County—						
Ellis.....	11				11	
Hays.....	1			1		

## SMALLPOX—Continued.

## Kansas Report for February, 1918—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Kansas—Continued.</b>						
Ellsworth County—						
Langley.....	1			1		
Marquette.....	3				3	
Finney County—						
Garden City.....	2				2	
Ford County—						
Fort Dodge.....	1				1	
Franklin County—						
Ottawa.....	12				12	
Geary County—						
Junction City.....	13		2	1	10	
Milford.....	1				1	
Gove County—						
Quinter.....	4				4	
Graham County—						
Hill City.....	13				13	
Palco.....	3				3	
Penokee.....	7				7	
Gray County—						
Cimarron.....	6				6	
Greenwood County—						
Climax.....	1				1	
Eureka.....	1				1	
Piedmont.....	4				4	
Harper County—						
Anthony.....	2				2	
Harvey County—						
Newton.....	3				3	
Jackson County—						
Holton.....	1		1			
Soldier.....	3				3	
Jefferson County—						
Grantville.....	3				3	
McLouth.....	12				12	
Perry.....	5				5	
Williamstown.....	2				2	
Jewell County—						
Burr Oak.....	4				4	
Formoso.....	4				4	
Mankato.....	2				2	
Johnson County—						
DeSoto.....	3				3	
Lenexa.....	1				1	
Merriam.....	3				3	
Olathe.....	1				1	
Overland Park.....	1				1	
Springhill.....	2				2	
Stanley.....	1				1	
Stillwell.....	1				1	
Washita.....	1				1	
Kingman County—						
Rago.....	1				1	
Kiowa County—						
Greensburg.....	4				4	
Haviland.....	9				9	
Labette County—						
Bartlett.....	1				1	
Chetopa.....	5				5	
Edna.....	2				2	
Oswego.....	1				1	
Parsons.....	10		3		7	
Lane County—						
Healy.....	1				1	
Leavenworth County—						
Bain City.....	2				2	
Easton.....	1				1	
Lansing.....	3				3	
Leavenworth.....	20			3	17	
Linwood.....	4				4	
Richardson.....	1				1	
Lincoln County—						
Barnard.....	4				4	
Lincoln.....	1				1	

## SMALLPOX—Continued.

## Kansas Report for February, 1918—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
<b>Kansas—Continued.</b>						
<b>Linn County—</b>						
Blue Mound.....	1				1	
Boiscourt.....	1				1	
Centerville.....	1			1		
Fontana.....	1				1	
Fulton.....	1				1	
Lane.....	1				1	
<b>Logan County—</b>						
Ben Allen.....	1				1	
<b>Lyon County—</b>						
Americus.....	4				4	
Emporia.....	53				43	10
Madison.....	2				2	
Plymouth.....	1				1	
<b>Marion County—</b>						
Durham.....	1				1	
Hillsboro.....	6			2	4	
LeHigh.....	23				23	
Marion.....	2			1	1	
Peabody.....	4				4	
<b>Marshall County—</b>						
Blue Rapids.....	1				1	
Irving.....	1				1	
Lees Summit.....	1				1	
Marysville.....	2			1	1	
Waterville.....	1				1	
<b>Miami County—</b>						
Fontana.....	1				1	
Hillsdale.....	1				1	
Osawatimie.....	16			1	15	
<b>Mitchell County—</b>						
Glen Elder.....	2				2	
Tipton.....	1				1	
<b>Montgomery County—</b>						
Bolton.....	3				3	
Caney.....	9				9	
Cherryvale.....	1				1	
Coffeyville.....	37				37	
Dearing.....	1				1	
Independence.....	20			1	19	
<b>Morris County—</b>						
Council Grove.....	5			1	4	
White City.....	2				2	
<b>Nemaha County—</b>						
Coming.....	1				1	
<b>Neosho County—</b>						
Chanute.....	4				4	
<b>Norton County—</b>						
Almena.....	3				3	
<b>Osage County—</b>						
Burlingame.....	4				4	
Carbondale.....	4				4	
Lyndon.....	6				6	
Olivet.....	2			1	1	
Osage City.....	9			1	8	
Overbrook.....	2				2	
Scranton.....	4				4	
<b>Osborne County—</b>						
Osborne.....	1				1	
<b>Ottawa County—</b>						
Delphos.....	1				1	
Minneapolis.....	4				4	
Niles.....	5				5	
Tescott.....	2				2	
<b>Pawnee County—</b>						
Burdett.....	1			1		
Larned.....	13				13	
Rozel.....	1				1	
Rush Center.....	9				9	
<b>Phillips County—</b>						
Gretna.....	2			2		
Long Island.....	3				3	
Prairie View.....	12				12	

## SMALLPOX—Continued.

## Kansas Report for February, 1918—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Number vaccinated within 7 years preceding attack.	Number last vaccinated more than 7 years preceding attack.	Number never successfully vaccinated.	Vaccination history not obtained or uncertain.
Kansas—Continued.						
Pottawatomie County—						
Belvue.....	2				2	
Wamego.....	1				1	
Pratt County—						
Pratt.....	1				1	
Reno County—						
Hutchinson.....	10				10	
Turon.....	1				1	
Republic County—						
Belleville.....	1				1	
Courtland.....	1				1	
Holts.....	2				2	
Munden.....	3				3	
Republic.....	2				2	
Talmo.....	1				1	
Riley County—						
Cleburne.....	1				1	
Leonardville.....	4			2	2	
Manhattan.....	43				43	
Ogden.....	4				4	
Randolph.....	1				1	
Riley.....	1				1	
Winkler.....	1				1	
Rush County—						
Otis.....	1				1	
Saline County—						
Gypsum.....	2				2	
New Cambria.....	5				5	
Salina.....	15				15	
Sedgewick County—						
Garden Plain.....	3				3	
Kechi.....	3				3	
Sedgewick.....	2				2	
Valley Center.....	2				2	
Wichita.....	67				67	
Seward County—						
Liberal.....	4			1	3	
Shawnee County—						
Oakland.....	1				1	
Richland.....	1				1	
Topeka.....	37			5	32	
Smith County—						
Bellaire.....	3				3	
Smith Center.....	3				3	
Stafford County—						
St. John.....	7				7	
Stevens County—						
Hugoton.....	1				1	
Sumner County—						
Argonia.....	2				2	
Conway Springs.....	6				6	
Oxford.....	1				1	
South Haven.....	3			1	2	
Wellington.....	10				10	
Thomas County—						
Rexford.....	1				1	
Trego County—						
Collyer.....	4				4	
Washington County—						
Haddam.....	4				4	
Wilson County—						
New Albany.....	8				8	
Woodson County—						
Buffalo.....	1				1	
Gridley.....	2				2	
Neosho Falls.....	2				2	
Yates Center.....	8				7	1
Wyandotte County—						
Kansas City.....	187				187	
Total.....	1,419		8	39	1,353	19

## SMALLPOX—Continued.

## Miscellaneous State Reports.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Colorado (Feb. 1-28):</b>			<b>Iowa—Continued.</b>		
Alamosa County.....	2	.....	Woodbury County.....	1	.....
Boulder County.....	1	.....	Wright County.....	15	.....
Delta County.....	14	.....	Total.....	561	.....
Denver County.....	95	.....	<b>Maine (Feb. 1-28):</b>		
Eagle County.....	1	.....	Aroostook County—		
El Paso County.....	21	.....	Portage (town).....	1	.....
Jefferson County.....	9	.....	Dyer Brook (town).....	5	.....
Larimer County.....	8	.....	Van Buren (town).....	8	.....
Mesa County.....	1	.....	Mapleton (town).....	3	.....
Montezuma County.....	1	.....	Frenchville (town).....	28	.....
Otero County.....	1	.....	St. Francis.....	4	.....
Phillips County.....	1	.....	Smyrna (town).....	1	.....
Pueblo County.....	6	.....	Oakfield (town).....	4	.....
Sedgwick County.....	10	.....	Fort Fairfield (town).....	1	.....
Weld County.....	5	.....	Cumberland County—		
Total.....	176	.....	Brunswick (town).....	6	.....
<b>Iowa (Feb. 1-28):</b>			Hancock County—		
Adair County.....	2	.....	Bucksport (town).....	2	.....
Appanoose County.....	1	.....	Kennebec County—		
Audubon County.....	9	.....	Rome (town).....	2	.....
Benton County.....	3	.....	Augusta.....	3	.....
Boone County.....	10	.....	Oxford County—		
Bremer County.....	2	.....	Buckfield (town).....	2	.....
Buchanan County.....	2	.....	Albany (town).....	5	.....
Butler County.....	9	.....	Gilead (town).....	3	.....
Calhoun County.....	1	.....	Penobscot County—		
Cass County.....	3	.....	Bangor.....	1	.....
Cerro Gordo County.....	4	.....	Orono (town).....	2	.....
Cherokee County.....	2	.....	Piscataquis County—		
Crawford County.....	4	.....	Greenville (town).....	5	.....
Dallas County.....	8	.....	Somerset County—		
Decatur County.....	2	.....	Mercer (town).....	2	.....
Des Moines County.....	4	.....	Washington County—		
Dickinson County.....	16	.....	Milbridge (town).....	5	.....
Emmet County.....	1	.....	Centerville (town).....	3	.....
Fayette County.....	1	.....	Eastport.....	7	.....
Fremont County.....	2	.....	Total.....	103	.....
Greene County.....	6	.....	<b>Mississippi (Feb. 1-28):</b>		
Grundy County.....	5	.....	Adams County.....	2	.....
Hancock County.....	13	.....	Alcorn County.....	15	.....
Hardin County.....	8	.....	Amite County.....	2	.....
Henry County.....	1	.....	Benton County.....	1	.....
Jasper County.....	2	.....	Bolivar County.....	31	.....
Jefferson County.....	3	.....	Calhoun County.....	10	.....
Johnson County.....	5	.....	Carroll County.....	4	.....
Kossuth County.....	9	.....	Chickasaw County.....	27	.....
Linn County.....	4	.....	Choctaw County.....	1	.....
Lucas County.....	11	.....	Clarke County.....	25	.....
Madison County.....	10	.....	Clay County.....	17	.....
Mahaska County.....	1	.....	Coahoma County.....	10	.....
Marion County.....	3	.....	Covington County.....	5	.....
Mills County.....	11	.....	De Soto County.....	2	.....
Mitchell County.....	16	.....	Forrest County.....	19	.....
Monona County.....	3	.....	Greene County.....	1	.....
Monroe County.....	4	.....	Harrison County.....	1	.....
Montgomery County.....	1	.....	Hinds County.....	42	.....
O'Brien County.....	4	.....	Holmes County.....	5	.....
Page County.....	5	.....	Itawamba County.....	1	.....
Palo Alto County.....	10	.....	Jasper County.....	72	.....
Plymouth County.....	4	.....	Jefferson Davis County.....	1	.....
Polk County.....	127	.....	Jones County.....	47	.....
Pottawattamie County.....	98	.....	Kemper County.....	1	.....
Poweshiek County.....	2	.....	Lafayette County.....	2	.....
Ringgold County.....	6	.....	Lamar County.....	14	.....
Sac County.....	1	.....	Lauderdale County.....	1	.....
Scott County.....	9	.....	Leake County.....	1	.....
Shelby County.....	1	.....	Lee County.....	11	.....
Sioux County.....	14	.....	Leflore County.....	37	.....
Story County.....	5	.....	Lincoln County.....	1	.....
Tama County.....	1	.....	Lowndes County.....	4	.....
Wapello County.....	23	.....	Madison County.....	14	.....
Warren County.....	2	.....	Marshall County.....	2	.....
Washington County.....	5	.....	Monroe County.....	2	.....
Wayne County.....	12	.....	Montgomery County.....	2	.....
Webster County.....	10	.....			
Winnebago County.....	4	.....			

## SMALLPOX—Continued.

## Miscellaneous State Reports—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Mississippi—Continued.</b>			<b>Pennsylvania (Feb. 1-28):</b>		
Neshoba County.....	4	.....	Allegheny County.....	11	.....
Newton County.....	13	.....	Beaver County.....	5	.....
Oktibbeha County.....	17	.....	Bucks County.....	1	.....
Panola County.....	33	.....	Cambria County.....	14	.....
Pearl River County.....	3	.....	Center County.....	3	.....
Pike County.....	2	.....	Clearfield County.....	7	.....
Pontotoc County.....	24	.....	Dauphin County.....	5	.....
Prentiss County.....	3	.....	Erie County.....	18	.....
Quitman County.....	8	.....	Fayette County.....	7	.....
Rankin County.....	12	.....	Franklin County.....	4	.....
Scott County.....	7	.....	Indiana County.....	8	.....
Sharkey County.....	8	.....	Lackawanna County.....	1	.....
Smith County.....	1	.....	McKean County.....	8	.....
Sunflower County.....	12	.....	Mercer County.....	4	.....
Tallahatchie County.....	18	.....	Mifflin County.....	1	.....
Tate County.....	12	.....	Northumberland County.....	1	.....
Tippah County.....	2	.....	Philadelphia County.....	3	.....
Tunica County.....	6	.....	Potter County.....	1	.....
Union County.....	4	.....	Somerset County.....	7	.....
Warren County.....	5	.....	Washington County.....	1	.....
Washington County.....	9	.....	Westmoreland County.....	1	.....
Wayne County.....	5	.....	Total.....	111	.....
Webster County.....	12	.....	<b>South Carolina (Feb. 1-28):</b>		
Winston County.....	2	.....	Chester County.....	4	.....
Yalobusha County.....	4	.....	Lexington County.....	3	.....
Yazoo County.....	31	.....	Spartanburg County.....	4	.....
Total.....	600	.....	York County.....	5	.....
<b>New Jersey (Feb. 1-28):</b>			Total.....	16	.....
Hudson County.....	1	.....	<b>South Dakota (Feb. 1-28):</b>		
Morris County.....	1	.....	Davidson County.....	5	.....
Total.....	2	.....	Day County.....	1	.....
<b>North Dakota (Feb. 1-28):</b>			Grant County.....	3	.....
Bottineau County.....	11	.....	Gregory County.....	1	.....
Cass County.....	4	.....	Hand County.....	4	.....
Cavalier County.....	3	.....	Kingsbury County.....	8	.....
Grand Forks County.....	1	.....	Minnehaha County.....	6	.....
McKenzie County.....	2	.....	Roberts County.....	9	.....
Pembina County.....	10	.....	Turner County.....	5	.....
Ramsey County.....	1	.....	Walworth County.....	12	.....
Renville County.....	1	.....	Yankton County.....	6	.....
Rolette County.....	10	.....	Lake County.....	7	.....
Ward County.....	2	.....	Total.....	67	.....
Williams County.....	2	.....	<b>Wyoming (Feb. 1-28):</b>		
Total.....	47	.....	Sweetwater County.....	4	.....
<b>Oregon (Feb. 1-28):</b>			Washakie County.....	2	.....
Marion County.....	1	.....	Laramie County.....	3	.....
Wasco County.....	1	.....	Carbon County.....	1	.....
Portland.....	13	.....	Total.....	10	.....
Total.....	15	.....			

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	22	.....	Chicago, Ill.....	11	.....
Alton, Ill.....	9	.....	Cincinnati, Ohio.....	17	.....
Anniston, Ala.....	18	.....	Cleveland, Ohio.....	44	.....
Atlanta, Ga.....	3	.....	Clinton, Iowa.....	1	.....
Baltimore, Md.....	3	.....	Coffeyville, Kans.....	3	.....
Birmingham, Ala.....	83	.....	Columbus, Ohio.....	19	.....
Buffalo, N. Y.....	6	.....	Council Bluffs, Iowa.....	18	.....
Canton, Ohio.....	3	.....	Dallas, Tex.....	12	.....
Cedar Rapids, Iowa.....	2	.....	Davenport, Iowa.....	2	.....
Charleston, W. Va.....	2	.....	Denver, Colo.....	26	.....
Charlotte, N. C.....	1	.....	Des Moines, Iowa.....	24	.....
Chattanooga, Tenn.....	1	.....	Detroit, Mich.....	37	.....

## SMALLPOX—Continued.

## City Reports for Week Ended Mar. 16, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Dubuque, Iowa.....	5	.....	Muskegon, Mich.....	5	.....
Duluth, Minn.....	1	.....	Muskogee, Okla.....	17	.....
Evansville, Ind.....	2	.....	Nashville, Tenn.....	2	.....
Fort Smith, Ark.....	6	.....	New Albany, Ind.....	1	.....
Fort Wayne, Ind.....	19	.....	New Orleans, La.....	17	.....
Fort Worth, Tex.....	32	.....	Norfolk, Va.....	2	.....
Fresno, Cal.....	2	.....	Oak Park, Ill.....	1	.....
Galesburg, Ill.....	1	.....	Ogden, Utah.....	2	.....
Galveston, Tex.....	1	.....	Oklahoma City, Okla.....	36	.....
Grand Rapids, Mich.....	8	.....	Omaha, Nebr.....	43	.....
Hammond, Ind.....	2	.....	Parkersburg, W. Va.....	1	.....
Hattiesburg, Miss.....	2	.....	Philadelphia, Pa.....	1	.....
Houston, Tex.....	2	.....	Pittsburgh, Pa.....	2	.....
Indianapolis, Ind.....	48	.....	Pontiac, Mich.....	2	.....
Jackson, Mich.....	2	.....	Portland, Oreg.....	1	.....
Jacksonville, Fla.....	1	.....	Quincy, Ill.....	5	.....
Jamestown, N. Y.....	2	.....	Roanoke, Va.....	5	.....
Kalamazoo, Mich.....	1	.....	Rock Island, Ill.....	1	.....
Kansas City, Kans.....	36	.....	St. Joseph, Mo.....	17	.....
Kansas City, Mo.....	100	1	St. Louis, Mo.....	20	.....
Knoxville, Tenn.....	8	.....	St. Paul, Minn.....	4	.....
Kokomo, Ind.....	3	.....	Salt Lake City, Utah.....	17	.....
La Crosse, Wis.....	5	.....	San Diego, Cal.....	1	.....
Leavenworth, Kans.....	2	.....	Sandusky, Ohio.....	7	.....
Lima, Ohio.....	12	.....	San Francisco, Cal.....	9	.....
Lincoln, Nebr.....	12	.....	Seattle, Wash.....	2	.....
Little Rock, Ark.....	24	.....	Sioux City, Iowa.....	19	.....
Lorain, Ohio.....	1	.....	South Bend, Ind.....	4	.....
Louisville, Ky.....	4	.....	Springfield, Ill.....	5	.....
Lowell, Mass.....	1	.....	Springfield, Ohio.....	2	.....
Macon, Ga.....	2	.....	Steelton, Pa.....	1	.....
Madison, Wis.....	1	.....	Steubenville, Ohio.....	1	.....
Memphis, Tenn.....	22	.....	Superior, Wis.....	2	.....
Michigan City, Ind.....	2	.....	Tacoma, Wash.....	2	.....
Milwaukee, Wis.....	12	.....	Terre Haute, Ind.....	3	.....
Minneapolis, Minn.....	18	.....	Toledo, Ohio.....	5	.....
Mobile, Ala.....	8	.....	Waco, Tex.....	4	.....
Montgomery, Ala.....	8	.....	Wichita, Kans.....	29	.....
Morristown, N. J.....	1	.....	Winston-Salem, N. C.....	5	.....
Muncie, Ind.....	7	.....	York, Pa.....	1	.....

## TETANUS.

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	.....	1	Philadelphia, Pa.....	.....	1
Cincinnati, Ohio.....	.....	1	St. Louis, Mo.....	.....	1
Elizabeth, N. J.....	1	.....	San Diego, Cal.....	1	.....
New Orleans, La.....	.....	3	Schenectady, N. Y.....	.....	1
New York, N. Y.....	.....	1			

## TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 515.



## TYPHOID FEVER.

## State Reports for February, 1918.

Place.	New cases reported.	Place.	New cases reported.
<b>Colorado:</b>		<b>Mississippi—Continued.</b>	
Denver.....	1	Lincoln County.....	1
Jefferson County.....	1	Lowndes County.....	6
San Miguel County.....	1	Madison County.....	1
Weld County.....	1	Marion County.....	2
Total.....	4	Marshall County.....	5
<b>Kansas:</b>		Montgomery County.....	6
Allen County—		Pearl River County.....	2
La Harpe.....	3	Pike County.....	4
Moran.....	3	Pontotoc County.....	5
Brown County—		Prentiss County.....	1
Morrill.....	1	Scott County.....	1
Butler County—		Simpson County.....	1
El Dorado.....	3	Smith County.....	3
Cherokee County—		Sunflower County.....	3
Galena.....	1	Tallahatchie County.....	3
Clark County—		Tippah County.....	1
Ashland.....	1	Tishomingo County.....	2
Franklin County—		Union County.....	2
Ottawa.....	2	Warren County.....	14
Geary County—		Washington County.....	2
Junction City.....	1	Webster County.....	2
Leavenworth County—		Wilkinson County.....	4
Lansing.....	2	Yalobusha County.....	2
Mitchell County—		Yazoo County.....	8
Scottsville.....	2	Total.....	141
Montgomery County—		<b>Nebraska:</b>	
Cherryvale.....	1	Douglas County.....	2
Independence.....	2	Richardson County.....	1
Pawnee County—		Total.....	3
Larned.....	1	<b>New Jersey—</b>	
Republic County—		Atlantic County.....	1
Belleville.....	1	Bergen County.....	1
Sedgwick County—		Burlington County.....	6
Wichita.....	1	Camden County.....	1
Shawnee County—		Cape May County.....	1
Topeka.....	1	Cumberland County.....	1
Sumner County—		Essex County.....	3
Wellington.....	1	Gloucester County.....	3
Wyandotte County—		Hudson County.....	2
Kansas City.....	3	Mercer County.....	3
Total.....	30	Monmouth County.....	5
<b>Maine:</b>		Morris County.....	1
Knox County—		Ocean County.....	1
Camden.....	1	Passaic County.....	1
Washington County—		Union County.....	2
Eastport.....	4	Total.....	32
Total.....	5	<b>North Dakota:</b>	
<b>Mississippi:</b>		Barnes County.....	2
Adams County.....	2	Nelson County.....	1
Alcorn County.....	3	Walsh County.....	1
Amite County.....	5	Wells County.....	1
Benton County.....	3	Williams County.....	1
Bolivar County.....	2	Total.....	6
Calhoun County.....	1	<b>Oregon:</b>	
Chickasaw County.....	2	Clackamas County.....	1
Choctaw County.....	5	Hood River County.....	1
Clarke County.....	3	Portland.....	2
Copiah County.....	3	Total.....	4
De Soto County.....	1	<b>Pennsylvania:</b>	
Grenada County.....	6	Allegheny County.....	98
Hancock County.....	1	Armstrong County.....	47
Harrison County.....	1	Beaver County.....	7
Hinds County.....	1	Bedford County.....	1
Holmes County.....	1	Berks County.....	8
Ittawamba County.....	1	Blair County.....	7
Jackson County.....	6	Bradford County.....	5
Jasper County.....	3	Bucks County.....	10
Jefferson Davis County.....	2		
Jones County.....	3		
Leake County.....	1		
Leflore County.....	4		

## TYPHOID FEVER—Continued.

## State Reports for February, 1918—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Pennsylvania—Continued.</b>		<b>Pennsylvania—Continued.</b>	
Butler County.....	3	Union County.....	1
Carbon County.....	1	Warren County.....	1
Chester County.....	3	Washington County.....	1
Clarion County.....	1	Westmoreland County.....	6
Crawford County.....	3	York County.....	13
Cumberland County.....	2	<b>Total</b> .....	<b>301</b>
Delaware County.....	1	<b>Rhode Island:</b>	
Erie County.....	1	Hope Valley (town).....	1
Fayette County.....	2	Providence.....	7
Franklin County.....	1	<b>Total</b> .....	<b>8</b>
Huntingdon County.....	1	<b>South Carolina:</b>	
Jefferson County.....	1	Aiken County.....	1
Lackawanna County.....	1	Greenville County.....	1
Lancaster County.....	6	Laurens County.....	3
Lawrence County.....	5	Lexington County.....	1
Lebanon County.....	2	Orangeburg County.....	1
Lehigh County.....	3	Richland County.....	1
Luzerne County.....	1	<b>Total</b> .....	<b>8</b>
Lycorning County.....	1	<b>South Dakota:</b>	
McKean County.....	1	Miner County.....	1
Mercer County.....	15	<b>Wyoming:</b>	
Montgomery County.....	10	Washakie County.....	1
Montour County.....	1		
Northampton County.....	5		
Northumberland County.....	2		
Perry County.....	3		
Philadelphia County.....	16		
Somerset County.....	1		
Sullivan County.....	1		
Susquehanna County.....	2		

## City Reports for Week Ended Mar. 16, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.....	1	.....	Milwaukee, Wis.....	6	2
Altoona, Pa.....	3	.....	Minneapolis, Minn.....	12	1
Anniston, Ala.....	1	.....	Moline, Ill.....	3	1
Baltimore, Md.....	6	1	Morristown, W. Va.....	2	.....
Battle Creek, Mich.....	1	.....	New Bedford, Mass.....	.....	1
Birmingham, Ala.....	2	.....	New Haven, Conn.....	1	.....
Boston, Mass.....	1	.....	New Orleans, La.....	4	.....
Brockton, Mass.....	.....	1	Newport, Ky.....	1	1
Buffalo, N. Y.....	3	1	Newton, Mass.....	1	.....
Canton, Ohio.....	1	.....	New York, N. Y.....	7	2
Charlotte, N. C.....	2	.....	Oakland, Cal.....	1	.....
Chicago, Ill.....	6	1	Omaha, Nebr.....	.....	1
Columbia, S. C.....	3	.....	Parkersburg, W. Va.....	2	.....
Columbus, Ohio.....	1	.....	Passaic, N. J.....	1	.....
Dallas, Tex.....	1	.....	Philadelphia, Pa.....	3	1
Danville, Ill.....	1	1	Pittsburgh, Pa.....	6	4
Denver, Colo.....	1	.....	Pontiac, Mich.....	1	.....
Detroit, Mich.....	1	.....	Portland, Me.....	1	.....
Dubuque, Iowa.....	19	.....	Quincy, Ill.....	1	.....
Duluth, Minn.....	1	.....	Reading, Pa.....	2	.....
Elmira, N. Y.....	2	.....	Richmond, Va.....	1	.....
Evansville, Ind.....	1	.....	Rock Island, Ill.....	1	.....
Galveston, Tex.....	.....	1	Saginaw, Mich.....	2	.....
Grand Rapids, Mich.....	2	.....	St. Louis, Mo.....	6	1
Hammond, Ind.....	7	1	St. Paul, Minn.....	.....	1
Hoboken, N. J.....	1	1	Salt Lake City, Utah.....	4	.....
Holyoke, Mass.....	1	.....	San Diego, Cal.....	1	.....
Jackson, Miss.....	1	.....	San Francisco, Cal.....	2	2
Jacksonville, Fla.....	3	2	Scranton, Pa.....	.....	1
Jersey City, N. J.....	1	2	South Bend, Ind.....	1	1
Kansas City, Mo.....	1	1	Stockton, Cal.....	2	.....
Lima, Ohio.....	.....	1	Syracuse, N. Y.....	2	.....
Little Rock, Ark.....	1	.....	Toledo, Ohio.....	4	.....
Lorain, Ohio.....	1	.....	Washington, D. C.....	3	1
Los Angeles, Cal.....	1	.....	Wheeling, W. Va.....	.....	1
Louisville, Ky.....	1	.....	Wilkes-Barre, Pa.....	1	.....
Macon, Ga.....	1	.....	Wilmington, N. C.....	2	1
Manchester, N. H.....	1	1	Yonkers, N. Y.....	1	1
Memphis, Tenn.....	1	.....	Zanesville, Ohio.....	7	.....

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

## State Reports for February, 1918.

State.	Cases reported.			State.	Cases reported.		
	Diphtheria.	Measles.	Scarlet fever.		Diphtheria.	Measles.	Scarlet fever.
Colorado.....	36	482	244	North Dakota.....	29	57	177
Iowa.....	78	.....	447	Oregon.....	13	392	31
Kansas.....	88	2,391	464	Pennsylvania.....	1,049	4,432	972
Maine.....	15	217	22	Rhode Island.....	64	87	48
Mississippi.....	54	10,965	24	South Carolina.....	45	276	6
Nebraska.....	34	293	217	South Dakota.....	6	337	81
New Jersey.....	361	3,695	337	Wyoming.....	19	110	44

## City Reports for Week Ended Mar. 16, 1918.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.		
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	
Over 500,000 inhabitants:											
Baltimore, Md.....	589,621	286	5	.....	408	8	2	.....	50	42	
Boston, Mass.....	756,476	289	68	2	255	3	24	2	59	20	
Chicago, Ill.....	2,497,722	760	110	15	70	1	36	1	494	79	
Cleveland, Ohio.....	674,073	199	60	3	22	.....	5	1	30	23	
Detroit, Mich.....	571,784	244	35	4	19	5	35	.....	32	27	
Los Angeles, Cal.....	503,812	153	16	1	314	1	4	.....	27	29	
New York, N. Y.....	5,602,841	1,939	249	26	1,475	37	153	2	323	208	
Philadelphia, Pa.....	1,709,518	729	52	8	534	1	53	2	124	95	
Pittsburgh, Pa.....	579,090	196	20	.....	239	5	12	.....	26	14	
St. Louis, Mo.....	757,309	265	66	1	99	1	32	.....	49	24	
From 300,000 to 500,000 inhabit- ants:											
Buffalo, N. Y.....	468,558	134	10	.....	119	.....	.....	.....	33	16	
Cincinnati, Ohio.....	410,476	163	17	1	27	1	7	1	32	22	
Jersey City, N. J.....	306,345	120	10	3	67	3	9	.....	13	14	
Milwaukee, Wis.....	436,535	.....	1	1	315	2	35	3	15	8	
Minneapolis, Minn.....	363,454	.....	17	1	18	.....	21	.....	34	9	
Newark, N. J.....	408,994	155	20	3	321	3	20	.....	37	21	
New Orleans, La.....	371,747	.....	16	.....	29	.....	.....	.....	36	24	
San Francisco, Cal.....	463,516	157	9	.....	69	1	21	.....	43	12	
Seattle, Wash.....	348,639	.....	3	.....	64	2	.....	1	9	5	
Washington, D. C.....	363,980	182	11	.....	464	1	43	2	21	25	
From 200,000 to 300,000 inhabit- ants:											
Columbus, Ohio.....	214,878	75	1	.....	28	.....	23	.....	8	.....	
Denver, Colo.....	260,800	72	7	.....	197	.....	39	.....	.....	17	
Indianapolis, Ind.....	271,708	79	18	1	121	.....	36	.....	11	9	
Kansas City, Mo.....	297,847	99	15	2	81	.....	20	.....	2	15	
Louisville, Ky.....	238,910	111	9	1	61	.....	5	.....	31	11	
Portland, Oreg.....	295,463	79	.....	.....	239	.....	4	.....	8	8	
Providence, R. I.....	254,960	80	11	.....	37	.....	5	1	.....	7	
Rochester, N. Y.....	256,417	75	11	.....	91	.....	18	.....	19	6	
St. Paul, Minn.....	247,232	59	18	.....	19	.....	35	2	17	5	
From 100,000 to 200,000 inhabit- ants:											
Albany, N. Y.....	104,199	.....	3	.....	17	.....	1	.....	9	.....	
Atlanta, Ga.....	190,558	60	1	.....	8	.....	4	.....	13	3	
Birmingham, Ala.....	181,762	77	.....	.....	48	.....	.....	.....	17	18	
Bridgeport, Conn.....	121,579	62	9	1	2	.....	2	.....	4	8	
Cambridge, Mass.....	112,861	31	.....	.....	56	.....	6	.....	5	3	
Camden, N. J.....	106,233	.....	2	.....	28	.....	2	.....	4	.....	
Dallas, Tex.....	124,527	9	.....	.....	3	.....	1	.....	2	6	
Des Moines, Iowa.....	101,558	.....	1	.....	.....	.....	2	.....	.....	.....	
Fall River, Mass.....	128,366	44	6	.....	6	.....	4	.....	9	7	
Fort Worth, Tex.....	104,562	25	1	1	6	1	.....	.....	.....	.....	
Grand Rapids, Mich.....	128,291	34	11	.....	10	.....	9	.....	2	.....	
Hartford, Conn.....	110,900	46	2	1	12	.....	3	.....	4	3	
Houston, Tex.....	112,307	55	.....	.....	46	.....	2	.....	.....	7	
Lawrence, Mass.....	100,560	29	1	.....	1	.....	.....	.....	3	3	
Lowell, Mass.....	113,245	37	4	2	3	.....	2	.....	2	2	
Lynn, Mass.....	102,425	19	1	.....	31	.....	4	.....	6	2	

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 16, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 100,000 to 200,000 inhabit- ants—Continued.										
Memphis, Tenn.	148,995	54	3		20		6		8	5
Nashville, Tenn.	117,057	51			14		3		4	3
New Bedford, Mass.	118,158	31			10		2		19	2
New Haven, Conn.	149,685	63	2		5				7	2
Oakland, Cal.	198,604	66			39		9		9	7
Omaha, Nebr.	165,470	32	3		23		13		1	3
Reading, Pa.	109,381	36	4		37		6		1	4
Richmond, Va.	156,687	61	2		90		7		9	2
Salt Lake City, Utah.	117,399	41	8		12		10			3
Scranton, Pa.	146,811	48	4	1	2		5		5	5
Springfield, Mass.	105,942	33	7	1	36	1	4		1	2
Syracuse, N. Y.	155,624	53	15		86		17		3	2
Tacoma, Wash.	112,770		3		4		43			
Toledo, Ohio.	191,554	73	7		19		12	1	2	11
Trenton, N. J.	111,593	56	4		11				6	2
Worcester, Mass.	163,314	55	3		5				4	7
From 50,000 to 100,000 inhabit- ants:										
Akron, Ohio.	85,625		10		14		7		8	
Altoona, Pa.	58,659		1		9				1	
Atlantic City, N. J.	57,660				31				3	
Bayonne, N. J.	69,893		1		94		4		8	
Berkeley, Cal.	57,653	13			10		4		5	1
Binghamton, N. Y.	53,973	27	1		10		5		6	
Brookton, Mass.	67,449	27	1		8		7		3	
Canton, Ohio.	60,852	15			2		1			1
Charleston, S. C.	60,734	29	3	1	5		1			5
Chattanooga, Tenn.	60,075	4			5					
Covington, Ky.	57,144	24	1		8				2	5
Duluth, Minn.	94,495	13	2		23		6		2	1
Elizabeth, N. J.	68,690	26	5		46	1	3		7	3
El Paso, Tex.	63,705	40		1	11		3			9
Erie, Pa.	75,195	38	5		2		7		6	3
Evansville, Ind.	76,078	29	2	1	25		1		9	3
Fort Wayne, Ind.	76,183	34	5		3					
Harrisburg, Pa.	72,015	26	1	1	20		4			
Hoboken, N. J.	77,214	32	2		7				5	3
Holyoke, Mass.	65,286	13	1		2		2		3	2
Jacksonville, Fla.	76,101	31			16				7	4
Johnstown, Pa.	68,529	28	5		6		11		4	1
Kansas City, Kans.	99,437	16	1		12		4		2	
Lancaster, Pa.	50,853		1		26		9		3	
Little Rock, Ark.	57,343	13	2		7		2		5	2
Malden, Mass.	51,155	14	4		11		1		1	
Manchester, N. H.	78,283	21	3		8		3		4	2
Mobile, Ala.	58,221	15	1		3					3
New Britain, Conn.	53,794	15	3		10		4			1
Norfolk, Va.	89,612				34		5			6
Oklahoma City, Okla.	92,943	29			6		2		3	3
Passaic, N. J.	71,744	21	1		2		1		6	2
Pawtucket, R. I.	59,411	20	1		9		3			
Portland, Me.	63,867	22			11					1
Rockford, Ill.	55,185	19			25		4		5	
Sacramento, Cal.	66,895	25			95		3		3	5
Saginaw, Mich.	55,642	9	1		1		1		9	
St. Joseph, Mo.	85,236	38	5		10		1		4	4
San Diego, Cal.	53,330	5	4		125		8		19	3
Schenectady, N. Y.	99,519	36	4	1	15				4	4
Sioux City, Iowa	57,078						21			
Somerville, Mass.	87,039	32	6		25		2		3	1
South Bend, Ind.	68,946	13			18		4		1	
Springfield, Ill.	61,120	17			45		2			1
Springfield, Ohio	51,550	20			5				3	3
Terre Haute, Ind.	66,083	21			1				1	7
Troy, N. Y.	77,916	23	1		7		4		3	1
Wichita, Kans.	70,722				64		4	1	2	1
Wilkes Barre, Pa.	46,776	25	9		55		3		3	
Wilmington, Del.	94,265	39	3	1	25		2			4
Yonkers, N. Y.	19,838		6		18		2		4	
York, Pa.	51,656	17	2		10				2	1

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 16, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabitants:										
Alameda, Cal.	27,732	9	3	1	15				3	
Auburn, N. Y.	37,385	19			31					1
Austin, Tex.	34,814	15								
Battle Creek, Mich.	29,480		4		22	5		2		
Bellingham, Wash.	32,985				6					
Brookline, Mass.	32,730	7	4		17	2			1	
Butler, Pa.	27,632	3	4		15	1				
Butte, Mont.	43,425	17	1		7		14	2		
Cedar Rapids, Iowa.	37,308						6			
Charleston, W. Va.	29,941	7			6		2			
Charlotte, N. C.	39,823	15	1		1	1		4		
Chelsea, Mass.	46,192	21			23		2	2	3	
Chicopee, Mass.	29,319	8	2		1				1	
Clinton, Iowa.	27,386		1		60		1			
Colorado Springs, Colo.	32,971	11						3	4	
Columbia, S. C.	34,611	26	2		7		1	1		
Council Bluffs, Iowa.	31,484		1	1	1		1			
Cranston, R. I.	25,987	9			4		1		1	
Cumberland, Md.	26,074	12	1		12					
Danville, Ill.	32,261	13	1		89		5	1		
Davenport, Iowa.	48,811		2		6		5			
Decatur, Ill.	39,631	10			4			8		
Dubuque, Iowa.	39,873		3		6					
Durham, N. C.	25,061	9			8			2		
Easton, Pa.	30,530	14	2		15			1		
East Orange, N. J.	42,458	8	1		33		7	1		
Elgin, Ill.	28,203	7			2			1	2	
Elmira, N. Y.	38,120	3			2			1		
Evanston, Ill.	28,591	3			10		2	4		
Everett, Mass.	39,233	13	2	1	8		4	1	1	
Fort Smith, Ark.	28,638	8	1		5	2				
Fresno, Cal.	34,958	6			12					
Galveston, Tex.	41,863	19	1		2				3	
Green Bay, Wis.	29,353	7			11		1	2	2	
Hammond, Ind.	26,171	18	4		1		2		2	
Haverhill, Mass.	48,477	13	3	1	34			1	1	
Jackson, Mich.	35,363	13			17		16	1	2	
Jackson, Miss.	29,737	13						1		
Jamestown, N. Y.	36,580	12	2					1	2	
Kalamazoo, Mich.	48,886	17	1		10					
Kenosha, Wis.	31,576	3	7		4		2			
Kingston, N. Y.	26,771	4							1	
Knoxville, Tenn.	38,676				15					
La Crosse, Wis.	31,677	10	3							
Lexington, Ky.	41,097	28	1		21				5	
Lima, Ohio.	35,384	15	2						1	
Lincoln, Nebr.	46,515	18	1		1		3			
Long Beach, Cal.	27,587	13	2		33					
Lynchburg, Va.	32,940	16	1		4		1	1	3	
Macon, Ga.	45,757	24			3		1			
Madison, Wis.	30,699	14	2	1	23		4	4	3	
McKeesport, Pa.	47,521				21					
Medford, Mass.	26,234	5	1		5		5	3		
Moline, Ill.	27,451	12	2	1	36		2	1	1	
Montgomery, Ala.	43,285		1		5					
Mount Vernon, N. Y.	37,009	9	1		12	1		2		
Muncie, Ind.	25,424	8			1		1		2	
Muskegon, Mich.	26,100	14			2		1	1		
Muskogee, Okla.	44,218		1		16					
Newburgh, N. Y.	29,603	12			2		1	4	3	
New Castle, Pa.	41,133		1		4		1			
Newport, Ky.	31,927	9						1	1	
Newport, R. I.	30,108	5	2							
Newton, Mass.	43,715	16	1		29			1		
Niagara Falls, N. Y.	37,353	16			2		2	4	3	
Norristown, Pa.	31,401	9			1				1	
Norwalk, Conn.	26,899									
Oak Park, Ill.	26,654	7	2		15		3			
Ogden, Utah.	31,404	13	1		25					
Orange, N. J.	33,080	18			57		2	2	2	
Oshkosh, Wis.	36,065	4					1	2		
Pasadena, Cal.	46,450	9			280			2	2	
Perth Amboy, N. J.	41,185	14			18			9	1	

# DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Mar. 16, 1918—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhab- itants—Continued.										
Petersburg, Va.	25,582				8				4	2
Pittsfield, Mass.	38,629	16	2	1	4		1			1
Poughkeepsie, N. Y.	30,390		2	1	72				3	1
Quincy, Ill.	36,798	7	2		2					
Quincy, Mass.	38,136	12	1		87		2		3	2
Racine, Wis.	46,486	10			23		4		1	
Roanoke, Va.	43,284	13			21				1	2
Rock Island, Ill.	28,926	14			34		3			
Salem, Mass.	48,562	13			24		1		3	1
San Jose, Cal.	38,902				27				1	
Sheboygan, Wis.	28,559	8			1					
Steubenville, Ohio	27,445	6	1		1					
Stockton, Cal.	35,358	13	7		61				1	
Superior, Wis.	46,226	12	1		1					
Taunton, Mass.	36,283	13					2			
Waco, Tex.	33,385	15			14				4	
Waltham, Mass.	30,570	8								
Watertown, N. Y.	29,894				32		1		2	
West Hoboken, N. J.	43,139	6	3		5				4	1
Wheeling, W. Va.	43,377	10			10				1	1
Wilmington, N. C.	29,892	13			35				1	
Winston-Salem, N. C.	31,155	12	1		48				5	1
Woonsocket, R. I.	44,360		2	1			1			
Zanesville, Ohio.	30,863	11								2
From 10,000 to 25,000 inhabitants:										
Alton, Ill.	22,874	11			1					1
Ann Arbor, Mich.	15,010	12	1		24		1			
Anniston, Ala.	14,112		2		24		1			
Beaver Falls, Pa.	13,532				1		1			
Berlin, N. H.	13,599	3								
Braddock, Pa.	21,685	14					1			
Cairo, Ill.	15,794	6	1							
Chillicothe, Ohio.	15,470	5	1		2					
Clinton, Mass.	13,075	1			4		3		1	
Coffeyville, Kans.	17,548		1		2				1	
Concord, N. H.	22,669	9	1		2					
Galesburg, Ill.	24,276	9			16					1
Greenville, S. C.	18,181	5			2					
Harrison, N. J.	16,950		3		2					
Hattiesburg, Miss.	16,482	9			1				2	
Janesville, Wis.	14,999				2		4			1
Kearney, N. J.	23,539	8			29		2		1	
Kokomo, Ind.	20,930	5			18					1
La Fayette, Ind.	21,286	10							1	
Leavenworth, Kans.	19,363	5	1		7		1		1	
Marquette, Wis.	14,610	2					3			
Melrose, Mass.	17,445	3	1		1		2		1	
Michigan City, Ind.	21,512	12			1		1		1	1
Morgantown, W. Va.	13,709	8							1	
Morristown, N. J.	13,284	7							1	1
Moundsville, W. Va.	11,153	3							2	
Muscatine, Iowa.	17,500				5					
Nanticoke, Pa.	23,126	9			1		3		1	
New Albany, Ind.	23,629	10	1							3
Newburyport, Mass.	15,243	6			1				2	1
North Adams, Mass.	22,019	9								
Northampton, Mass.	19,926	5			1		1		1	
North Little Rock, Ark.	14,907	5					2		2	
Parkersburg, W. Va.	20,612	8			9					
Plainfield, N. J.	23,805	6	1	1	5		3		5	
Pontiac, Mich.	17,524	10	5		2		3			
Portsmouth, N. H.	11,666				5		6			
Rocky Mount, N. C.	12,067	1								1
Rutland, Vt.	14,831	11							1	
Sandusky, Ohio.	20,193	8							1	1
Saratoga Springs, N. Y.	13,821	6			2		1			1
Spartanburg, S. C.	21,365	5	1		5				3	1
Steeton, Pa.	15,548	2			1				1	
Washington, Pa.	21,618				139				1	
Wilksburg, Pa.	23,228	10	1	1	13					
Woburn, Mass.	15,969	4								2

<sup>1</sup> Population Apr. 15, 1910; no estimate made.

# FOREIGN.

## CUBA.

### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	Mar. 1-10, 1918.		Cases remaining under treatment Mar. 10, 1918.
	New cases.	Deaths.	
Diphtheria.....	4	—	4
Leprosy.....	1	—	12
Malaria.....	12	1	138
Measles.....	11	—	45
Paratyphoid fever.....	—	—	3
Scarlet fever.....	—	—	2
Typhoid fever.....	20	2	272
Varicella.....	14	—	68

<sup>1</sup> From the interior, 33.

<sup>2</sup> From the interior, 28.

## INDO-CHINA.

### Cholera—Plague—Smallpox—Leprosy—November, 1917.

During the month of November, 1917, 39 cases of cholera, 19 of plague, and 201 of smallpox were notified in Indo-China, as compared with 39 cases of cholera, 36 of plague, and 152 of smallpox notified during the month of October, 1917. The distribution of the cases according to Provinces was as follows:

*Cholera.*—Anam, 1 case; Cambodia, 31 cases; Cochin-China, 7 cases; total, 39 cases. The total for the corresponding month of the year 1916 was 151. The largest number of cases notified in November, 1917, occurred in the Province of Cambodia, 31, of which 12 were due to an outbreak of the disease occurring in the prison at Pnompenh.

*Plague.*—Anam, 3 cases; Cambodia, 9; Cochin-China, 7; total, 19. The total for the corresponding month of the year 1916 was 24.

*Smallpox.*—Anam, 60 cases; Cambodia, 6; Cochin-China, 131; Laos, 1 case; Tonkin, 3 cases; total, 201 cases. The total for the corresponding month of the year 1916 was 128.

*Leprosy.*—There were notified during the month of November, 1917, 11 cases of leprosy, of which 10 cases occurred at Hanoi, capital of the Province of Tonkin.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.****Reports Received During Week Ended Apr. 5, 1918.<sup>1</sup>****CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India:</b>				
Bombay.....	Dec. 3-15.....	2	2	
Calcutta.....	Dec. 30-Jan. 12.....	1	14	
Madras.....	Dec. 16-22.....	1	1	
Do.....	Dec. 30-Jan. 5.....	1	1	
Rangoon.....	Dec. 9-22.....	2	2	
<b>Indo-China:</b>				
Provinces.....				Nov. 1-30, 1917: Cases, 39; deaths, 32.
Anam.....	Nov. 1-30.....	1		
Cambodia.....	do.....	31	27	
Cochin-China.....	do.....	7	5	
<b>Java:</b>				
West Java.....				Dec. 30, 1917-Jan. 10, 1918
Batavia.....	Dec. 21-27.....	4	2	Cases, 22; deaths, 9.
Do.....	Dec. 23-Jan. 10.....	15	1	

**PLAGUE.**

<b>India:</b>				Dec. 9-22, 1917: Cases, 38,889; deaths, 30,711.
Bassein.....	Jan. 6-12.....		1	
Bombay.....	Dec. 2-29.....	44	38	
Calcutta.....	Dec. 30-Jan. 12.....		3	
Karachi.....	Dec. 2-22.....	10	6	
Madras.....	Dec. 30-Jan. 5.....	1		
Madras Presidency.....	Dec. 15-29.....	2,332	1,748	
Do.....	Dec. 30-Jan. 5.....	1,281	947	
Mandalay.....	Jan. 6-12.....		69	
Rangoon.....	Dec. 9-22.....	19	18	
<b>Indo-China:</b>				Nov. 1-30, 1917: Cases, 19; deaths, 14.
Provinces.....				
Anam.....	Nov. 1-30.....	3	1	
Cambodia.....	do.....	9	9	
Cochin-China.....	do.....	7	4	
Saigon.....	Jan. 28-Feb. 3.....	12	2	
<b>Java:</b>				
East Java.....	Dec. 9-23.....	56	56	

**SMALLPOX.**

<b>Canada:</b>				
New Brunswick—				
Moncton.....	Mar. 17-23.....	1		
St. John.....	Mar. 17-23.....	1		
Nova Scotia—				
Sydney.....	Mar. 9-23.....	4		
<b>Ontario—</b>				
Ottawa.....	Mar. 18-24.....	4		
Sarnia.....	Mar. 17-23.....	1		
<b>China:</b>				Present.
Chungking.....	Jan. 20-Feb. 2.....			
Dairen.....	Feb. 17-23.....	6		
Hongkong.....	Jan. 26-Feb. 9.....	6	1	
<b>Egypt:</b>				
Alexandria.....	Feb. 12-28.....	2		
<b>France:</b>				
Paris.....	Feb. 17-23.....	1		
<b>Greece:</b>				
Saloniki.....	Jan. 27-Feb. 9.....		7	
<b>India:</b>				
Bombay.....	Dec. 2-29.....	34	8	
Karachi.....	Dec. 2-22.....	3		
Madras.....	Dec. 9-29.....	9	5	
Do.....	Dec. 30-Jan. 5.....	6	3	
Rangoon.....	Dec. 9-22.....	2		
<b>Indo-China:</b>				Nov. 1-30, 1917: Cases, 201; deaths, 48.
Provinces.....				
Anam.....	Nov. 1-30.....	60	10	
Cambodia.....	do.....	6	5	
Cochin-China.....	do.....	131	32	
Saigon.....	Jan. 28-Feb. 3.....	60	17	
Laos.....	do.....		1	
Tonkin.....	do.....	3		

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources.



# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received During Week Ended Apr. 5, 1918—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Italy:				
Leghorn.....	Feb. 19-24.....	1	1	
Java:				
East Java.....	Dec. 9-29.....	17		
Mid-Java.....	Dec. 13-26.....	17		
West Java.....	Dec. 21-27.....	61	3	
Do.....	Dec. 28-Jan. 10.....	21	3	
Newfoundland:				
St. John.....	Mar. 9-15.....	1		
Portugal:				
Lisbon.....	Feb. 10-22.....	2		
Portuguese East Africa:				
Lourenço Marquez.....	Dec. 1-31.....		7	
Union of South Africa:				
East Liverpool.....	Jan. 20-26.....	1		Variceloid.

## **TYPHUS FEVER.**

Egypt:				
Alexandria.....	Feb. 5-25.....	139	32	
Great Britain:				
Belfast.....	Feb. 17-Mar. 2....	11	1	
Java:				
East Java.....				Dec. 9-23, 1917: Cases, 11; deaths, 1.
Surabaya.....	Dec. 17-23.....	6	1	
Mid-Java.....				Dec. 13-26, 1917: Cases, 9. Dec. 27, 1917-Jan. 2, 1918: Cases, 4.
Samarang.....	Dec. 13-23.....	1		
Do.....	Dec. 27-Jan. 2....	1		
West Java.....				Dec. 21-27, 1917: Cases, 5; deaths, 1. Dec. 28, 1917-Jan. 10, 1918: Cases, 20; deaths, 10.
Batavia.....	Dec. 21-27.....	2	1	
Do.....	Dec. 28-Jan. 10.....	9		
Norway:				
Bergen.....	Feb. 1-16.....	3		

**Reports Received from Dec. 29, 1917, to Mar. 29, 1918.**

## **CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Antung.....	Nov. 26-Dec. 2....	3	1	
India:				
Bombay.....	Oct. 28-Nov. 24....	17	12	
Do.....	Dec. 30-Jan. 5....	74	67	
Calcutta.....	Sept. 16-Dec. 15....		92	
Madras.....	Nov. 25-Dec. 1....	1	1	
Do.....	Jan. 6-12.....	2	3	
Rangoon.....	Nov. 4-Dec. 1....	3	3	
Do.....	Dec. 30-Jan. 5....	1	1	Nov. 1-30, 1917: Cases, 2; deaths, 2.
Indo-China:				
Provinces.....				Sept. 1-Oct. 31, 1917: Cases, 113; deaths, 57.
Anam.....	Sept. 1-Oct. 31....	17	13	
Cambodia.....	do.....	41	25	
Cochin-China.....	do.....	43	17	
Saigon.....	Nov. 22-Dec. 9....	4	3	
Kwang-Chow-Wan.....	Sept. 1-30.....	10	2	
Java:				
East Java.....	Oct. 28-Nov. 3....	1	1	
West Java.....				Oct. 19-Dec. 29, 1917: Cases, 116; deaths, 61.
Batavia.....	Oct. 19-Dec. 29....	65	22	

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.****Reports Received from Dec. 29, 1917, to Mar. 29, 1918—Continued.****CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Persia:</b>				
Mazanderan Province.....				July 30-Sept. 3, 1917: Cases, 384; deaths, 276.
Achraf.....	July 30-Aug. 16.....	90	88	Present.
Astrabad.....	July 31.....			
Barfrush.....	July 1-Aug. 16.....	39	25	
Chahmirzad.....				25 cases reported July 31, 1917.
Chahmirzad.....	June 15-July 25.....	10	8	
Charoud.....	Aug. 26-Sept. 3.....	4	2	
Damghan.....	Aug. 26.....			Present.
Kharek.....	May 28-June 11.....	21	13	
Meched.....	Aug. 18-Sept. 2.....	174	82	
Ouzoun Dare.....	Aug. 8.....			Do.
Sabzevar.....	Aug. 24.....			Do.
Sari.....	July 3-29.....	273	144	
Samman.....	Aug. 31-Sept. 2.....	14	5	
Yekchambe-Bazar.....	June 3.....	6		
<b>Philippine Islands:</b>				
Provinces.....				Nov. 18-Dec. 29, 1917: Cases, 1,053; deaths, 693. Dec. 30, 1917-Feb. 9, 1918: Cases, 914; deaths, 546.
Antique.....	Nov. 18-Dec. 1.....	48	32	
Do.....	Feb. 3-9.....	4	4	
Bohol.....	Nov. 18-Dec. 29.....	169	111	
Do.....	Dec. 30-Feb. 9.....	213	181	
Capiz.....	Nov. 25-Dec. 29.....	27	21	
Do.....	Dec. 30-Feb. 9.....	121	101	
Cebu.....	Dec. 23-29.....	3		
Do.....	Dec. 30-Feb. 9.....	69	36	
Iloilo.....	Nov. 25-Dec. 29.....	179	135	
Do.....	Dec. 30-Feb. 9.....	82	53	
Leyte.....	Nov. 25-Dec. 22.....	13	12	
Do.....	Feb. 3-9.....	9	8	
Mindanao.....	Nov. 25-Dec. 29.....	337	196	
Do.....	Dec. 30-Feb. 9.....	351	220	
Occidental Negros.....	Nov. 25-Dec. 22.....	177	123	
Do.....	Jan. 13-Feb. 9.....	60	40	
Oriental Negros.....	Nov. 25-Dec. 29.....	99	62	
Do.....	Dec. 30-Feb. 9.....	15	13	
Romblon.....	Nov. 25-Dec. 1.....	1	1	
<b>Siam:</b>				
Bangkok.....	Sept. 16-22.....	1	1	
<b>Turkey in Asia:</b>				
Bagdad.....	Nov. 1-15.....		40	

**PLAGUE.**

<b>Brasil:</b>				
Bahia.....	Nov. 4-Dec. 15.....	4	4	
Do.....	Dec. 30-Jan. 12.....	3	2	
Rio de Janeiro.....	Dec. 23-29.....	1		
Do.....	Jan. 6-12.....	1	1	
<b>British Gold Coast:</b>				
Achim.....	Jan. 8.....			Present.
<b>Ceylon:</b>				
Colombo.....	Oct. 14-Dec. 1.....	14	13	
Do.....	Dec. 30-Jan. 12.....	6	5	
<b>Ecuador:</b>				
Guayaquil.....	Sept. 1-30.....	3	1	Sept. 1-Nov. 30, 1917: Cases, 68; deaths, 24. Reported outbreak occurring about Jan. 17, 1918.
Do.....	Oct. 1-31.....	20	8	
Do.....	Nov. 1-30.....	45	15	
<b>Egypt:</b>				
Alexandria.....	Jan. 14-28.....	1	2	Jan. 1-Nov. 15, 1917: Cases, 728; deaths, 398.
Port Said.....	July 23-29.....	1	2	
<b>India:</b>				
Bassein.....	Dec. 9-29.....		8	Sept. 16-Dec. 8, 1917: Cases, 171,192; deaths, 128,870. Dec. 23-29, 1917: Cases, 18,753; deaths, 15,162. Dec. 30, 1917-Jan. 5, 1918: Cases, 28,304; deaths, 22,677.
Do.....	Dec. 30-Jan. 5.....		2	
Bombay.....	Oct. 28-Dec. 1.....	103	85	
Do.....	Dec. 30-Jan. 5.....	19	11	
Calcutta.....	Sept. 16-29.....		2	
Henzada.....	Oct. 21-27.....		1	
Karachi.....	Oct. 21-Dec. 29.....	17	14	
Madras Presidency.....	Oct. 31-Nov. 17.....	3,294	2,560	
Do.....	Jan. 6-12.....	1,503	1,177	
Mandalay.....	Oct. 14-Nov. 17.....		89	
Do.....	Dec. 30-Jan. 5.....		167	
Myingyan.....	Dec. 30-Jan. 5.....		37	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 29, 1917, to Mar. 29, 1918—Continued.**

## **PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Rangoon.....	Oct. 21-Dec. 1.....	32	38	
Do.....	Dec. 30-Jan. 5.....	15	14	Nov. 1-30, 1917: Cases, 37; deaths, 34.
Toungoo.....	Dec. 9-29.....		5	
Do.....	Dec. 30-Jan. 5.....		3	
<b>Indo-China:</b>				
Provinces.....				Sept. 1-Oct. 31, 1917: Cases, 70; deaths, 54.
Anam.....	Sept. 1-Oct. 31.....	25	24	
Cambodia.....	do.....	30	19	
Cochin-China.....	do.....	15	11	
Saigon.....	Oct. 31-Dec. 23.....	17	6	
Do.....	Dec. 31-Jan. 27.....	24	7	
<b>Java:</b>				
East Java.....				Oct. 27-Dec. 22, 1917: Cases, 131; deaths, 129.
Surabaya.....	Nov. 11-25.....	2	2	Nov. 25-Dec. 9, 1917: Cases, 45 deaths, 45.
West Java.....				Dec. 1, 1917-Jan. 15, 1918: Cases, 106.
<b>Peru:</b>				
Ancachs Department—				
Casma.....	Dec. 1-Jan. 15.....	2		
Lambayeque Department.....	do.....	22		At Chiclayo, Ferrenafe, Jayanca, Lambayeque.
Libertad Department.....	do.....	72		At Guadalupe, Mansiche, Pacasmayo, Salaverry, San Jose, San Pedro, and country district of Trujillo.
Lima Department.....	do.....	9		City and country.
Piura Department—				
Catscaos.....	do.....	1		
<b>Senegal:</b>				
St. Louis.....	Feb. 2.....			Present.
<b>Siam:</b>				
Bangkok.....	Sept. 16-Dec. 23.....	13	9	
<b>Straits Settlements:</b>				
Singapore.....	Oct. 28-Dec. 29.....	5	7	

## **SMALLPOX.**

<b>Algeria:</b>				
Algiers.....	Nov. 1-Dec. 31.....	3	1	
Do.....	Jan. 1-31.....	2		
<b>Australia:</b>				
New South Wales.....				July 12-Dec. 20, 1917: Cases, 36. Jan. 4-17, 1918: Case, 1. Newcastle district.
Abermain.....	Oct. 25-Nov. 29.....	3		
Cessnock.....	July 12-Oct. 11.....	7		
Eumangla.....	Aug. 15.....	1		
Kurri Kurri.....	Dec. 5-20.....	2		
Mungindi.....	Aug. 13.....	1		
Warren.....	July 12-Oct. 25.....	22		
Do.....	Jan. 1-17.....	1		
<b>Brazil:</b>				
Bahia.....	Nov. 10-Dec. 8.....	3		
Pernambuco.....	Nov. 1-15.....	1		
Rio de Janeiro.....	Sept. 30-Dec. 29.....	703	190	
Do.....	Dec. 30-Jan. 26.....	158	42	
Sao Paulo.....	Oct. 29-Nov. 4.....		2	
<b>Canada:</b>				
British Columbia—				
Vancouver.....	Jan. 13-Mar 9.....	5		
Victoria.....	Jan. 7-Feb. 2.....	2		
Winnipeg.....	Dec. 30-Jan. 5.....	1		
<b>New Brunswick—</b>				
Kent County.....	Dec. 4.....			Outbreak. On main line Canadian Ry., 25 miles north of Moncton.
Do.....	Jan. 22.....	40		In 7 localities.
Northumberland County.....	do.....	41		In 5 localities.
Restigouche County.....	Jan. 18.....	60		
<b>St. John County—</b>				
St. John.....	Mar. 3-9.....	2		
Victoria County.....	Jan. 22.....	10		At Limestone and a lumber camp.
<b>Westmoreland County—</b>				
Moncton.....	Jan. 20-Feb. 23.....	8		
York County.....	Jan. 22.....	8		

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 29, 1917, to Mar. 29, 1918—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Canada—Continued.</b>				
<b>Nova Scotia—</b>				
Halifax.....	Feb. 24-Mar. 2.....	1	.....	
Sydney.....	Feb. 3-Mar. 2.....	4	.....	
<b>Ontario—</b>				
Hamilton.....	Dec. 16-22.....	1	.....	
Do.....	Jan. 13-19.....	2	.....	
Ottawa.....	Mar. 4-10.....	1	.....	
Sarnia.....	Dec. 9-15.....	1	.....	
Do.....	Jan. 6-Mar. 16.....	29	.....	
Toronto.....	Feb. 10-16.....	1	.....	
Windsor.....	Dec. 30-Jan. 5.....	1	.....	
<b>Prince Edward Island—</b>				
Charlottetown.....	Feb. 7-13.....	1	.....	
<b>Quebec—</b>				
Montreal.....	Dec. 16-Jan. 5.....	5	.....	
Do.....	Jan. 6-Mar. 9.....	7	.....	
<b>China:</b>				
Amoy.....	Oct. 22-Dec. 30.....	.....	.....	Present.
Do.....	Dec. 31-Feb. 3.....	.....	.....	Do.
Antung.....	Dec. 2-23.....	13	2	
Do.....	Jan. 7-Feb. 17.....	5	2	
Changsha.....	Jan. 28-Feb. 3.....	.....	1	
Chefoo.....	Jan. 27-Feb. 9.....	.....	.....	Do.
Chungking.....	Nov. 11-Dec. 29.....	.....	.....	Do.
Do.....	Dec. 30-Jan. 19.....	.....	.....	Do.
Dairen.....	Nov. 18-Dec. 22.....	3	1	
Do.....	Dec. 30-Feb. 16.....	19	1	
Harbin.....	May 14-June 30.....	20	.....	Chinese Eastern Ry.
Do.....	July 1-Dec. 2.....	7	.....	Do.
Hongkong.....	Dec. 23-29.....	1	.....	
Hungtahotze Station.....	Oct. 28-Nov. 4.....	1	.....	Do.
Manchuria Station.....	May 14-June 30.....	6	.....	Do.
Do.....	July 1-Dec. 2.....	3	.....	Do.
Mukden.....	Nov. 11-24.....	.....	.....	Present.
Nanking.....	Feb. 3-16.....	.....	.....	Epidemic.
Shanghai.....	Nov. 18-Dec. 23.....	41	91	Cases, foreign; deaths among natives.
Do.....	Dec. 31-Feb. 10.....	33	92	Do.
Swatow.....	Jan. 18.....	.....	.....	Unusually prevalent.
Tientsin.....	Nov. 11-Dec. 22.....	13	.....	
Do.....	Dec. 30-Feb. 9.....	14	.....	
Tsingtau.....	Feb. 4-10.....	1	.....	
<b>Cuba:</b>				
Habana.....	Jan. 7.....	1	.....	Nov. 8, 1917: 1 case from Coruna; Dec. 5, 1917, 1 case.
Marianao.....	Jan. 8.....	1	.....	6 miles distant from Habana.
<b>Ecuador:</b>				
Guayaquil.....	Sept. 1-30.....	8	.....	Sept. 1-Nov. 30, 1917: Cases, 26; deaths, 2.
Do.....	Oct. 1-31.....	14	1	
Do.....	Nov. 1-30.....	4	1	
<b>Egypt:</b>				
Alexandria.....	Nov. 12-18.....	2	1	
Do.....	Jan. 8-Feb. 4.....	3	.....	
Cairo.....	July 23-Nov. 18.....	6	1	
<b>France:</b>				
Lyon.....	Nov. 18-Dec. 16.....	6	3	
Do.....	Jan. 7-Feb. 17.....	11	2	
Marseille.....	Jan. 1-31.....	.....	2	
Paris.....	Jan. 27-Feb. 2.....	1	.....	
<b>Great Britain:</b>				
Cardiff.....	Feb. 3-9.....	4	.....	
<b>Honduras:</b>				
Santa Barbara Department.....	Jan. 1-7.....	.....	.....	Present in interior.
<b>India:</b>				
Bombay.....	Oct. 21-Dec. 1.....	16	4	
Do.....	Dec. 31-Jan. 5.....	26	5	
Karachi.....	Nov. 18-Dec. 29.....	1	2	Nov. 11-17, 1917: 10 cases with 4 deaths; imported on s. s. Menesha from Basreh.
Madras.....	Oct. 31-Dec. 8.....	9	3	
Do.....	Jan. 6-12.....	15	7	
Rangoon.....	Oct. 28-Nov. 24.....	4	1	
Do.....	Dec. 30-Jan. 5.....	1	.....	Nov. 1-30, 1917: Cases, 3; deaths, 1.

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 29, 1917 to Mar. 29, 1918—Continued.**

## **SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Indo-China:</b>				
Provinces.....				Sept. 1-Oct. 31, 1917: Cases, 345; deaths, 98.
Anam.....	Sept. 1-Oct. 31.....	103	15	
Cambodia.....	do.....	10	3	
Cochin-China.....	do.....	222	76	
Saigon.....	Oct. 20-Dec. 30.....	120	26	
Do.....	Dec. 31-Jan. 27.....	128	46	
Laos.....	Oct. 1-31.....	1		
Tonkin.....	Sept. 1-Oct. 31.....	9	4	
<b>Italy:</b>				
Castellamare.....	Dec. 10.....	2		Among refugees.
Florence.....	Dec. 1-15.....	17	4	
Genoa.....	Dec. 2-31.....	11	3	
Do.....	Jan. 2-31.....	30	2	
Leghorn.....	Jan. 7-Feb. 18.....	29	6	
Messina.....	Jan. 3-19.....	1		
Milan.....				Oct. 1-Nov. 30, 1917: Cases, 17.
Naples.....	To Dec. 10.....	2		Among refugees.
Taormina.....	Jan. 20-Feb. 9.....	6		
Turin.....	Oct. 29-Dec. 29.....	123	120	
Do.....	Jan. 21-Feb. 3.....	24	3	
<b>Japan:</b>				
Nagasaki.....	Jan. 14-27.....	3	1	
Taihoku.....	Dec. 15-21.....	1		Island of Taiwan (Formosa).
Do.....	Jan. 8-Feb. 11.....	5	2	Do.
Tokyo.....	Feb. 11-18.....	8		City and suburbs.
Yokohama.....	Jan. 17-Feb. 3.....	4		
<b>Java:</b>				
East Java.....	Oct. 7-Dec. 23.....	42		
Mid-Java.....				Oct. 10-Dec. 23, 1917: Cases, 80;
Samarang.....	Dec. 6-12.....	1	1	death, 1.
West Java.....				Oct. 19-Dec. 29, 1917: Cases, 288;
Batavia.....	Nov. 2-8.....	1		deaths, 41.
<b>Mexico:</b>				
Aguascalientes.....	Feb. 4-17.....		2	
Ciudad Juarez.....	Mar. 3-9.....	1	1	
Mazatlan.....	Dec. 5-11.....		1	
Do.....	Jan. 29-Mar. 5.....	4	3	
Mexico City.....	Nov. 11-Dec. 29.....	16		
Do.....	Dec. 30-Mar. 2.....	52		
Piedras Negras.....	Jan. 11.....	100		
Vera Cruz.....	Jan. 20-Mar. 2.....	7	3	
<b>Newfoundland:</b>				
St. Johns.....	Dec. 8-Jan. 4.....	29		
Do.....	Jan. 5-Mar. 8.....	34		
Trepassey.....	Jan. 4.....			Outbreak with 11 cases reported.
<b>Philippine Islands:</b>				
Manila.....	Oct. 28-Dec. 8.....	5		
Do.....	Jan. 13-Feb. 9.....	12		
<b>Porto Rico:</b>				
San Juan.....	Jan. 28-Mar. 3.....	23		
<b>Portugal:</b>				
Lisbon.....	Nov. 4-Dec. 15.....	2		
Do.....	Dec. 30-Jan. 19.....	2		
<b>Portuguese East Africa:</b>				
Lourenço Marques.....	Aug. 1-Nov. 30.....		2	
<b>Russia:</b>				
Archangel.....	Sept. 1-Oct. 31.....	7		
Moscow.....	Aug. 26-Oct. 6.....	22	2	
Petrograd.....	Aug. 31-Nov. 18.....	76	3	
<b>Siam:</b>				
Bangkok.....	Nov. 25-Dec. 1.....	1	1	
Do.....	Jan. 6-12.....	1		
<b>Spain:</b>				
Coruna.....	Dec. 2-15.....		4	
Madrid.....				Jan. 1-Dec. 31, 1917: Deaths, 77.
Seville.....	Oct. 1-Dec. 30.....		66	
<b>Straits Settlements:</b>				
Singapore.....	Nov. 25-Dec. 1.....	1	1	
Do.....	Dec. 30-Jan. 5.....	1		
<b>Tunisia:</b>				
Tunis.....	Dec. 14-2.....	1		
<b>Turkey in Asia:</b>				
Bagdad.....				Present in November, 1917.
<b>Union of South Africa:</b>				
Cape of Good Hope State.....	Oct. 1-Dec. 31.....	28		
<b>Venezuela:</b>				
Maracaibo.....	Dec. 2-8.....		1	

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 29, 1917, to Mar. 29, 1918—Continued.**

## **TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	Nov. 1-Dec. 31....	2	1	
Argentina:				
Rosario.....	Dec. 1-31.....		1	
Australia:				
South Australia.....				Nov. 11-17, 1917: Cases, 1.
Brazil:				
Rio de Janeiro.....	Oct. 28-Dec. 1....	7		
Canada:				
Ontario—				
Kingston.....	Dec. 2-8.....	3		
Quebec—				
Montreal.....	Dec. 16-22.....	2	1	
China:				
Antung.....	Dec. 3-30.....	13	1	
Do.....	Dec. 31-Jan. 27....	2	2	
Chosen (Formosa):				
Seoul.....	Nov. 1-20.....	1		
Egypt:				
Alexandria.....	Nov. 8-Dec. 28....	57	15	
Do.....	Jan. 8-Feb. 4.....	84	22	
Cairo.....	July 23-Dec. 16....	137	70	
Port Said.....	July 30-Nov. 11....	5	5	
France:				
Marseille.....	Dec. 1-31.....		1	
Great Britain:				
Belfast.....	Feb. 10-16.....	4	1	
Glasgow.....	Dec. 21.....	1		
Do.....	Jan. 20-Feb. 23....	4		
Manchester.....	Dec. 2-8.....	1		
Greece:				
Saloniki.....	Nov. 11-Dec. 29....		72	
Do.....	Dec. 30-Jan. 19....		11	
Japan:				
Nagasaki.....	Nov. 26-Dec. 16....	5	5	
Do.....	Jan. 7-Feb. 17....	8	2	
Java:				
East Java.....				Oct. 15-Dec. 9, 1917: Cases, 24; deaths, 3.
Mid-Java.....				Oct. 10-Dec. 12, 1917: Cases, 54; deaths, 2.
Samarang.....	Oct. 17-Dec. 5.....	15	2	
West Java.....				Oct. 19-Dec. 20, 1917: Cases, 73; deaths, 17.
Batavia.....	Oct. 19-Dec. 20....	57	14	
Mexico:				
Aguascalientes.....	Dec. 15.....		2	
Do.....	Jan. 21-Feb. 10....		14	
Durango State—				
Guanacovi.....	Feb. 11.....			Epidemic.
Mexico City.....	Nov. 11-Dec. 29....	476		
Do.....	Dec. 30-Mar. 2....	491		
Portugal:				
Lisbon.....	Feb. 21.....			Present.
Oporto.....	do.....			Epidemic. Dec. 24, 1917-Mar. 9, 1918: About 250 cases reported.
Russia:				
Archangel.....	Sept. 1-14.....	7	2	
Moscow.....	Aug. 26-Oct. 6....	49	2	
Petrograd.....	Aug. 31-Nov. 18....	32		
Do.....	Feb. 2.....			Present.
Vladivostok.....	Oct. 29-Nov. 4....	12	1	
Sweden:				
Goteborg.....	Nov. 18-Dec. 15....	2		
Switzerland:				
Basel.....	Jan. 6-13.....	1	1	
Zurich.....	Nov. 9-15.....	2		
Do.....	Jan. 13-19.....	2		
Tunisia:				
Tunis.....	Nov. 30-Dec. 6....		1	
Do.....	Feb. 9-15.....	2		
Turkey:				
Albania—				
Janina.....	Jan. 27.....			Epidemic.
Union of South Africa:				
Cape of Good Hope State.....				Sept. 10-Nov. 25, 1917: Cases, 3,724 (European, 31; native, 3,693); deaths, 761 (European, 5; native, 756).

# **CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from Dec. 29, 1917, to Mar. 29, 1918—Continued.**

## **YELLOW FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador.....				Sept. 1-Nov. 30, 1917: Cases, 5; deaths, 3.
Guayaquil.....	Sept. 1-30.....	1	1	
Do.....	Oct. 1-31.....	1		
Do.....	Nov. 1-30.....	2	2	
Yaguachi.....	do.....	1		
Honduras:				
Tegucigalpa.....	Dec. 16-22.....		1	
Do.....	Jan. 6-19.....		1	