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## PSYCHIATRIC STUDIES OF DELINQUENTS.

### PART IV. SOME CONSTITUTIONAL FACTORS IN PROSTITUTION.

By WALTER L. TREADWAY, Passed Assistant Surgeon, United States Public Health Service.

EDITORIAL NOTE.—Parts IV and V, published in this issue, conclude this series of Psychiatric Studies of Delinquents. The other articles of the series were printed in Public Health Reports for May 21, May 28, and June 25, 1920.

#### Introduction.

Personality is dependent upon heredity, education, and external conditions and influences affecting life and development. Although the limit of individual development is largely dependent upon the first of these, the direction of this development is determined by the second and third factors. It can not be denied that heredity plays a part in establishing a tendency to the evolution of certain traits of character; but just how far these traits may be inherited or what conditions influence their transmission is not entirely clear. In fact, the character of the offspring can not with accuracy be foretold by considering that of the progenitors. Correlated with this is the fact that variations in heredity frequently occur and are exemplified by strong personalities arising from weak progenitors. On the other hand, education and experience may modify potentially bad traits of character and change them into desirable social attributes. The history of democracy is replete with instances of great men and women who were born under adverse social conditions and who had but poor educational opportunities. Bad progenitors, pernicious social environments, and poor educational opportunities form an insufficient basis upon which to classify a personality.

One object of this study is to gain a better understanding of the traits of personality that may serve as an index of the true nature of the individual. The starting point of such an inquiry is a determination of the intelligence level of the individual and his relative capacity for energy, output, and activity. These abilities, representing the most accessible measurements of natural endowment, were determined in these investigations by a study, in each case, of the school history, and of the efficiency and permanency of occupation, in addition to the application of formal psychological tests.

The present investigation included also an inquiry into the presence of traits of personality referable primarily to the individual's

estimate of herself, and whether or not these traits interfered in either a general or a particular way with her adjustment to the environment. For it was important for the purpose in mind to find out whether or not the individuals dealt with showed any power of actively shaping situations. Inquiries were also made to determine whether or not the individuals under examination suffered mood disturbances and if such disturbances played a part in bringing them into conflict with the customs and conventions of society.

During the course of this investigation certain groups of cases were observed that showed similarity of make-up of the personal constitution of the individuals comprising them. A common characteristic of these groups is a tendency in the personality to interfere with the proper adjustment of such individuals to social usages. The groups are discussed under the following headings:

1. Egoistic Personality:
  - a. Egoistic traits in the epileptic.
  - b. Egoistic traits in indefinite epilepsy with feeble-mindedness.
  - c. Egoistic traits in uncomplicated feeble-mindedness.
2. Cases Allied to Egoistic Personality.
3. Seclusive and Fatuous Personalities:
  - a. Seclusive traits of character.
  - b. Fatuous traits of character.
  - c. Combination of seclusive and fatuous traits of character.
4. Obtrusive Personality:
  - a. Episodes of mania and depression.
  - b. Episodes of mania in the feeble-minded.
  - c. Habitual mood of elation.
5. Cases Allied to Obtrusive Personality.

#### 1. Egoistic Personality.

There is no denying the fact that a proper appreciation of one's own worth may be considered a good quality; but when it becomes exaggerated to such a degree as to make one arrogant or to cause one habitually to regard oneself as the center of all interest, it may be said to interfere with good mental adjustment. During this study a group of individuals were observed in whom an exaggerated self-esteem was the dominant trait of character. The term "egoistic personality" as used in this paper includes all cases showing an egoism that is clearly defined. Individuals temperamentally of this type require an unusual share of attention and perceive slights when none is intended. They are also suspicious and given to misinterpretations that harmonize with their own egoistic make-up. In consequence they have considerable difficulty in adjusting them-

selves to discipline and to customs of society. To this class the term "constitutional psychopathic inferior" has been applied. This type of personality is observed among epileptics and feeble-minded, and also among individuals who fall within the range of normal intelligence.

During the course of this survey, 41, or 20 per cent of all women examined, showed the egoistic temperament. Of the 29 white cases of this group, 4 were feeble-minded, 4 were feeble-minded epileptics, 1 had essential epilepsy, 5 gave histories of indefinite epilepsy, and 15 were classed as constitutionally psychopathic inferiors. Of the 12 colored cases, 3 were feeble-minded, 2 were feeble-minded epileptics, 2 had essential epilepsy, and 5 were classed as constitutionally psychopathic inferiors.

As to general characteristics of the cases of egoistic personality, it may be noted that all had been prostitutes of the mercenary type. As a group, none of the women had genuine love affairs that went very deeply or made any great impression. Those who married were dissatisfied, irritable, indifferent, and frequently domineering. There was a lack of the mother instinct and no desire for children. When children were born their care devolved upon some one else. As will be shown presently by illustrative cases, all were conceited, egotistical, and oversensitive. Many were exacting in their demands on those who were responsible for their care and comfort and were constantly finding fault with the most trivial incidents.

In regard to social relationships it was ascertained that they did not keep friends very long, and because of their inability to subordinate self, were never popular. Many came from large families, but did not get along well with their brothers and sisters or with one or both parents. In a number of instances one or more of their antecedents showed traits resembling those observed in this group.

In early life they had been irritable, and in school life they did not take proper advantage of the opportunities to learn. Many of them idled their time away, and because they did not like a particular study, gave up school entirely, or lost interest in it. Arithmetic appears to have been the most difficult. Obviously, many were slow in learning and had difficulty in keeping up with their classes. In most cases the deportment in school had been poor and truancy common. The reasons given for truancy in a number of instances were such as "did not like the teacher," "did not like to go," and "could not keep up with the class."

The egoistic traits of character just outlined are commonly observed in individuals who have definite epileptic convulsions. They are clearly shown in the following history of a feeble-minded epileptic woman 26 years of age, who, since her seventeenth year, had lived the life of a prostitute. As a child she was classed as "bad." In

school her deportment was always poor; she frequently quarreled with her teachers and usually spoke freely what she thought of them. She left the public school at 16, having reached the first year of high school without feeling as if she had profited by her school work. Her failure was largely due to her dislike of arithmetic. On the whole, her attitude toward authority was tactless, disrespectful, and antagonistic.

Leaving school, she obtained employment in a steam laundry, but kept this position only a few months, and later was married. Her attitude toward her husband was as disagreeable as it had been toward others. In consequence, they frequently separated and finally were divorced. She became a clandestine prostitute, and continued this practice even while working as chambermaid in numerous hotels in different cities. Again she held positions only for short periods. At one time she was apprehended by the authorities and committed to a reform school for 6 months.

In the fall of 1917 she remarried. When her husband was drafted into the United States Army, she followed him to camp. There she was arrested for prostitution and, on being found infected with a venereal disease, was quarantined at the industrial farm. She complained a great deal about her imprisonment, minimized her guilt, and tended to find fault with everyone with whom she came in contact. She was easily irritated by her companions and was decidedly oversensitive.

This woman's attitude toward authority and conditions in conflict with her desires began in very early life and has continued. These constitutional factors, which are of a psychopathic nature, brought her within the purview of the criminal as well as of the sanitary code. Interesting in this connection is the fact that her mother and sisters showed a disposition and temperament similar to her own.

The egoistic personality is further illustrated by the following case of feeble-mindedness associated with indefinite epilepsy. This woman claims to have attended school regularly until 16 years of age and to have done quite well in her classes. Since the school which she had attended was ungraded, it was impossible to determine what grades she failed in or what degree of progress she made. Soon after leaving school she married a responsible, ambitious man, and for a time thereafter attended a university with him. She could not take the college course, but was required to take up grade work. She lived with her husband about 8 years and gave birth to 4 children, 2 of whom are living. These 2 children at one time were wards of the juvenile court, having been taken from her by that court at least on one occasion.

Her husband divorced her because of her intimacy with another man with whom she has since lived in adultery. She has given birth

to one illegitimate child. After her divorce she moved to another town, where she lived a life of prostitution and crime. She was arrested numerous times for selling liquor illegally, and was also on the county's pauper list. At times she worked as a domestic and laundress in the community.

One day she quarreled with a man over some laundry work and, unable to control herself, became violent and threatening both in speech and acts. Relating the incident at home, both she and her common-law husband armed themselves with pistols, sought the man, and killed him. The woman made a vigorous attempt to shoot the man, but the cartridges failed to explode, so her husband shot the man from behind, killing him. After the shooting she again tried to fire her pistol at the helpless man, but without success. This incident but proves the vindictiveness and uncontrollable temper of the subject.

At the institution she did not associate freely with others, was always complaining of being ill-treated, but took especial delight in conversing with those in authority. To them she was servile and was always bearing tales about the shortcomings of others. She denied being guilty of any past wrong-doing and constantly attempted to exculpate herself when directly questioned about her unconventional behavior. Conceited, given to open self-admiration, extremely assertive of her rights, and highly oversensitive, she was most unhappy and imagined that she was being slighted. Moreover, she was subject to unusual attacks of baseless anger, and generally assumed an attitude of injured pride. Because of this attitude she caused endless trouble to those trying to please her and make her comfortable.

Toward her companions she always adopted a superior manner, and during conversations raised her eyebrows in a supercilious, inquiring way, as though she were condescending to talk to them. Usually she puckered up her lips in an unnatural manner as though she were pondering and deciding questions of considerable import. Her attitude was never flippant, but instead was that of a confirmed egoist.

When about 16 years of age she had some kind of "spells," which she described as "hot flashes in the chest," followed by unconsciousness. Since admission to the institution she has had attacks during which she pulls her hair and commits acts of violence against herself and others. These attacks are associated with at least partial unconsciousness.

In relating her story at the time of the examination, she used many unnecessary words, showed a tendency to bring an unusual number of qualifying adjectives into her conversation, and entered into minute details irrelevant to the questions.

This woman was obviously feeble-minded; but, in addition, she shows well-defined constitutional traits of character, essentially of a psychopathic nature. Her make-up resembles that of an epileptic, and the occurrence of spells or episodes fits in with such a classification. However, epileptic convulsions are not clearly defined. The egoistic traits of character stand out boldly and prevent her from realizing the rights of others or her duty to society, with disastrous consequences. In this connection it is of interest to note the statement of the county attorney in regard to his opinion of the case. He said: "She is of such a nature that it is better for society that she be forever segregated from it."

The egoistic personality was also observed in association with uncomplicated feeble-mindedness. Illustrative of this type is the case of a woman 20 years of age, who had been a prostitute for years and was infected with both gonorrhoea and syphilis. Her parents separated after her birth; her mother died when she was but 2½ years old. It is said that the mother suffered frequently from some kind of mental disease, during which she showed considerable excitement and pressure activity. After the mother's death, the girl was taken away and placed with a maternal aunt with whom she remained until she was about 6 years of age. She did not get along very well with her aunt's family, being saucy, heedless of advice, and frequently displaying an ungovernable temper. On the whole she was quite incorrigible. She was returned to her father, who placed her with another relative, but when she showed the same tendency to incorrigibility, this relative would not keep her.

Her father then took her back to his home, later placed her in a detention home, and finally left her with a family who lived in a boarding house. She was then 8 years of age. She remained with this family until she was 11. About this time, acting against the advice of her foster mother, she obtained a position which paid her \$6 a week. In this position she worked steadily for about 6 months, during which time she resided in the same boarding house as did her foster parents. When she was 13 years old, her father, who had left his home town and gone away for his health, died of tuberculosis. At this time she became pregnant, and her foster mother placed her in a refuge home, where she remained 3 years.

On leaving this place she obtained a position as clerk in a store, earning \$7 a week. She lived at a prominent hotel in the town, and for a time carried on a thriving business as a clandestine prostitute. For this she was arrested and sent to a State industrial school for 2½ years. After leaving there she entered a house of prostitution and was married a few weeks afterward. Her husband obtained a home for her; but while he was at work she plied her business of

prostitution and was arrested on a charge of vagrancy. Three months after her marriage, the husband was drafted and sent to camp. She then left home to reside in another town, where, presently, she was arrested. On being released she sought residence in still another town, where, within 2 weeks, she was arrested and fined \$25 for vagrancy. To satisfy this fine she remained in jail 3 weeks, and at the expiration of that time she was examined, found diseased, and ordered into quarantine.

Her schooling, obtained mostly in institutions, had been much interrupted. When she first began to attend school, between 6 and 8 years of age, she played truant, and would never heed her teacher's injunctions. At the institutions where she resided she finished the work of the eighth grade. Grammar was always her most difficult study, but she thinks she learned rapidly enough. She never liked her teachers and never would apply herself to study but only idled her time away. According to the Binet-Simon scale she graded 10 years mentally.

Throughout her entire life she has been incorrigible, and even as a baby was given to attacks of ungovernable temper, or "tantrums," and manifested antagonism toward all authority. She was evidently an unlovable child, who gave her foster parents much concern and anxiety. In her early childhood she manifested curiosity regarding sexual matters. At 6 years of age she attempted to have sexual relations with small boys. At one of the homes where she lived she had regular intercourse with a boy of 10 with whom she slept. Until the age of 13 she continued to go about with small boys and to have illicit relations with them. After that age she began having relations with men, the first one being 34 years of age. It was then that she became pregnant.

While at the first institution she attempted to run away and to be with men who were working in near-by fields, and required very close supervision. At this time her chief topics of conversation concerned sexual matters. She learned from companions the possibilities of making money by prostitution, and when discharged she straight-way began such a life. This immediately resulted in her rearrest and incarceration in a State industrial school. At that place she was kept locked up a good deal of the time. On her parole she became an inmate of a bawdy house, and later married upon the advice of the woman who was instrumental in obtaining her parole. She had no regard for her husband, and stated that she had never been in love with anyone. Intellectually inferior, she was also egotistical, extremely sensitive, selfish, and stubborn, and even during the period of her isolation she showed attacks of violent anger when not allowed her will.

This type of personality resembles the temperaments shown in the examples cited above, but there is no history of convulsive seizures or anything suggesting them. On the whole, the traits are dependent upon constitutional factors in their make-up and are of a psychopathic nature.

## 2. Cases Allied to Egoistic Personality.

Certain individuals exhibit well-defined selfish motives that may bring them into conflict with the conventional standards of the community. During the course of this study 32, or 15 per cent of all women examined, were classified as belonging to a group temperamentally allied to the egoistic type. Of these 32 women, 29 were white and 3 colored.

As a group, they showed quick and alert intelligence, differing in this respect from the egoistic type. Moreover, their exaggerated esteem of self was not so marked in very early life, but as puberty approached, they became arrogant and dictatorial. At this stage of development they showed an antipathy toward the mother or older sisters, would not heed their advice, and threw barriers about themselves on the grounds of supposed wrongs. For example, they imagined that their mothers were too severe and their sisters too dictatorial, and thus built up a resentment that crystallized into habits of thought and conduct. They were usually fond of the father, who in most instances was indulgent. But this indulgence exaggerated their resentment toward the mother and tended to strengthen the barriers which prevented normal relationships with others of the family.

From the social standpoint, their experience resembles that of the egoistic type. They usually had but one girl friend at a time. To each in turn they were very much attached, but such friendships did not last very long and were given up on slight provocation. To their intimates they were dictatorial and domineering. As a rule their love affairs were very perfunctory, as they did not show the tenderness, self-sacrifice, and self-subordination that one would naturally expect in a genuinely deep love. Like the egoistic, too, they were vain and given to self-admiration. In explanation of their conduct they would try to exculpate themselves on the ground that they were not given a chance at home, that the mother showed favoritism to other members of the family; yet, on the other hand, they were invariably the father's favorite. They were extremely fond of pretty clothes and would go to any extreme to satisfy the desire for self-aggrandizement.

It is believed that this type is at least on the border line of the psychopathic group and that their mental maladjustment is largely due to faulty methods of training that have permitted the unbridled development of bad traits of personality. Self-admiration and the



warping of their love life prevented them from realizing that they were units in the organization of society, and therefore from understanding and appreciating their obligations to others.

An example of this type is afforded in the case of a woman 24 years of age, quarantined because of venereal disease, who had been a prostitute and the mistress of different men since she was 17 years old.

She began to attend school when 5 years old, and attended regularly until she was 16, when she reached the second year of high school. She claimed that her progress in school was rapid, but one of her former schoolmates denied the truth of this statement. According to this schoolmate she was always willful and headstrong, did not get along with her teachers, and her deportment was always more or less questionable. She was selfish, somewhat dictatorial, and had few friends or close companions. After leaving school she went to live with the grandmother, because her older sister insisted upon giving her advice, which she resented. Of this she said: "My sister bossed me too much, so I let myself go." This she gave as her reason for entering upon the unconventional life she led. She was never especially fond of members of her family, but liked her father best.

After living with her grandmother for 4 or 5 months, during which time she was a clandestine prostitute, she went to another town to enter a training school for nurses. There she did not apply herself very diligently, and finally, after 4 or 5 months, gave it up and returned to her grandmother.

For about 3 years thereafter, she lived as mistress of a man in her home town, and in addition was a well-known prostitute in the community. She then left her home for a city in the Southwest, where she was for some time an inmate of a bawdy house. There she met a soldier whom she married. He bought her a "beauty parlor" and set her up in business before he was transferred to another camp, pending his departure overseas. Soon she tired of her beauty parlor, sold out the business, and proceeded to a town adjoining one of the military camps. There she was arrested on suspicion, examined, found diseased, and ordered into quarantine.

Further inquiry into her sexual life reveals the fact that she committed her first offense against the law of chastity when 17. She stated that she had never loved anyone, and that she had never had any regard for her paramours, except that of a mercenary nature which came from the fact that they provided her with spending money and pretty clothes.

### 3. Seclusive and Fatuous Personalities.

Two other types of personality were observed among the women studied. One of these has been termed the seclusive temperament and the other the fatuous. The character of the first of these is

essentially one of reticence, shyness, and seclusiveness, whereas the character of the second is one of silly, stupid behavior, with a sense of self-complacency. Other cases were observed showing traits of character that are admixtures of these two types. One or two specific incidents will illustrate the main characteristics of this type of temperament.

During the course of these studies, 51, or 24.7 per cent of the women observed (37 white, 14 colored), showed the seclusive and fatuous temperaments. Some of them had these traits sufficiently developed to warrant their being classed as psychopathic, but in all the traits interfered with good mental and social adjustment. Of the 37 white cases, 26 were feeble-minded, 1 was constitutionally psychopathic inferior, and 10, although classed as intellectually normal, as far as formal psychological tests are concerned, nevertheless possessed these traits of character to a degree sufficient to interfere with adaptation to social conventions. Of the 14 colored cases observed, 11 were feeble-minded and 3, although classed as normal mentally, did not show good adaptative capabilities.

The traits that stand out prominently in the personalities with seclusive and fatuous temperaments are the inability to shape situations to meet their needs and the lack of outside interests that serve as balancing factors in conventional behavior. The seclusive temperaments are fanciful and appear to derive a good deal of satisfaction from ruminations and longings. In an attempt to fulfill certain longings and desires, they adapt themselves in a peculiar stilted and awkward way; and, moreover, in their effort to be like others, they easily overstep the boundary line of convention. As a rule they do not belong to the mercenary type of prostitutes, but were quiet, easily influenced, surreptitious type. Even in school they showed the so-called "shut-in tendencies." The fatuous temperaments are childlike and trusting, easily influenced for good or bad, and women of this type accidentally adopt prostitution as a means of earning a living that they can not otherwise accomplish without supervision. In school they are usually laggards, and many are unable to do the work of the public schools. As they grow older their childlike emotional behavior continues. They are also especially liable to hallucination.

The seclusive type of personality may be illustrated by the case of a woman 30 years of age, who was infected with a venereal disease. She was not a mercenary type of prostitute and denied ever having sold her virtue for a consideration. She attended school regularly until 16, and made good progress as far as the eighth grade, but repeated this grade 3 times. Later she finished the second year of high school. Upon leaving school she obtained a position as bookkeeper in a general store and competently filled this position for 2 years. She then gave up her position to teach in the rural public

schools, but did this for one term only, and then returned to her former position. A short time afterwards, when about 20 years old, she married the manager of the store. This was her first love affair, and as the time approached for her marriage she wavered a good deal and was not comfortable about it. Although she never seriously thought of breaking her engagement, she was not sure that she wanted to marry at all. She finally did so, however, and to her husband was affectionate, never jealous, and was on quite good terms with him.

Six years after her marriage, the husband went West for his health, leaving her behind. Upon his departure she went to the city and obtained a position, which she held satisfactorily for 3 years. She left her home against her husband's wishes, and soon afterwards he divorced her on the grounds of desertion. This, however, did not interfere with her peace of mind in the least.

As a child she was bashful, and since she has grown up she has been timid and backward—this trait being more marked when strangers were present. She was never capable of making many friends and kept her acquaintances always at a distance. She has never been demonstrative toward anyone, but has been reticent about herself and has never had any confidants with whom she could discuss her ambitions or difficulties, not even having placed her confidences in her older sister. Sometimes she wished that she were active, talkative, and gifted with a sense of humor like others whom she met. In an attempt to overcome this reticence she became acquainted with a fellow employee who took her about a good deal and introduced her to men.

Toward men she was shy, but longed to be comfortable and at ease in their presence. She always felt that they were making remarks with hidden meanings that had some sexual significance. In her attempt to overcome shyness her manner was awkward and stilted and lacked the comfort and ease that goes with good adjustment. She did not know how to enjoy the companionship of others instinctively and allowed men to make improper advances to her. She could not protect herself, and without much struggle began to have illicit relations with them. She always did these things in association with a girl friend who no doubt influenced her a good deal. During one of their parties she was arrested and found diseased.

She never could plan new work or undertakings or shape situations to fulfill her social demand in the conventional way. Her work has always been of a routine character, and she was never unduly precise. She read the newspapers occasionally, but had no especial interests or hobbies, nor did she obtain much pleasure from games or ordinary amusements. Religion has not filled a place in her life, although she attended church a good deal. In other words, so far as the outside

world is concerned, her interests have been superficial and have not served as balancing factors in her mental make-up.

The other type belonging to this group, that with fatuous make-up, is illustrated in the case of a feeble-minded woman 22 years of age. This woman had a vacuous expression, and at first glance seemed mentally inferior. She showed, in addition to this vacuousness, a number of mannerisms: While sitting quietly and unobserved, she would swing the body from side to side, a movement much like that of a weaver. When spoken to she would suddenly brace up from apparent preoccupation and become attentive in a constrained or forced way. She answered quite promptly when addressed, but with a slight lisp and a high pitched voice. On the whole, her manner was that of a trustful child, easily blushing and shy. When joked she wriggled about like a little girl. The psychometric tests were taken in the light of a game which she enjoyed very much. Her grading by the Binet-Simon scale was nine years mentally.

Her father was an illiterate laborer, who provided as best he could for his family. The mother died some 15 months prior to the case's admission to the institution, leaving her the eldest in charge of a family of 3 children. A short time after her mother's death she was escorted home from church by a man whom she says she could do nothing with and who took advantage of her. This was her first offense against chastity. A short time afterward she was told by her father to leave home as he was going to marry. She then visited a town near one of the military camps, where anyone who paid her room rent could stay with her. Because of prostitution she was apprehended, found diseased, and quarantined. In quarantine she was found to be pregnant. After 3 or 4 months' treatment she was discharged as cured of infection. She again returned to the same town from which she was quarantined and the first day out met a soldier who paid her room rent and remained with her that night. He then made a "date" for his friend for the following night, but voluntary aid came to her rescue and she was placed in a home where she could work for her support and receive care during confinement.

In relating the story of her social adjustment, after being cured of her infection, she told it in a most matter-of-fact manner, apparently unable to realize that she had done wrong. At no time did she appear afraid, but seemed exceedingly trustful and dependent upon those who befriended her.

Such a case points out the obligation that society owes to these types of feeble-minded women. It is likely that her progeny will also be feeble-minded and will require special guidance and care.

Characteristics that appear to be admixtures of the seclusive and fatuous traits described above may be illustrated in the following history of an 18-year-old feeble-minded woman, who graded 11 years

mentally according to the Binet-Simon scale. She began school at 9 and left at 14, but did not make reasonable progress. However, she finished the sixth-grade work. Spelling and arithmetic were her most difficult subjects.

After leaving school she remained for a time with her mother, but she did not like her stepfather and so ran away to live with a sister. At 16 she married and thereafter obtained employment as a domestic at different places. Her mother persuaded her to leave her positions, and as she was never capable at work, she became dependent for her clothes upon her mother or sister. She was always impulsive in her judgments. As a child she was sluggish and did not care to play, as she thought it foolishness. Playmates would say things she did not like and she would go home. Even as a child she preferred to be alone.

She had always been in a hurry to do her work and because of haste and inefficiency often had to do it a second time. This was shown in her work at the institution.

There was always evident a tendency to pay unusual attention to her aches and pains. Noises made her "nervous"; they gave her "cold flashes" and caused her to shake "all over" and to "want to scream." Talking, pounding, or street noise also made her feel this way. It was especially at these times that she most desired to be alone. She had always been somewhat irritable and difficult to please and had never been very "sociable." Never did she associate freely with people, but she would talk when addressed. She denied being bashful, but during interviews she was not quite at ease, sighed a good deal, and appeared rather stilted in her emotional behavior.

She has always been easily offended, envious of her acquaintances, and is of a jealous disposition. There was, however, never any outward demonstration of her likes or dislikes. Like cases of other types, she never had any confidants to whom she could unburden herself. She could not talk freely even with her mother or sister. Never of her own accord did she volunteer information about her difficulties.

When her mother died, she claimed to have been much hurt, but did not cry because she did not believe in doing so. Apparently she did not take her mother's death as hard as did other members of the family. At this time she was 8 blocks from home and claimed she could hear her mother breathing. Since being in the institution, she has heard her mother's voice in the form of thoughts telling her not to do wrong.

Before her marriage she gave birth to an illegitimate child, and since has been a clandestine prostitute. She denies any attachment to men and after being with them wants to get away. However,

she drinks with them when opportunity affords. Because of her prostitution she was arrested, found diseased, and ordered quarantined.

The personality of this case shows the "shut-in tendencies" rather clearly defined; but, in addition, there is more or less of a finical manner displayed in her emotional adjustment.

#### 4. Obtrusive Personality.

Another type of personality observed during the course of these studies belongs to a group of cases whose constitutional traits serve in the genesis of a psychosis characterized by mood disturbances. This type shows emotional variability in the form of moods of elation or depression that interfere with efficiency or capacity for work. Moreover, persons showing elated moods, pressure of activity, and general psychomotor restlessness are very liable to be promiscuous in adapting themselves to their sexual demands. The incidence and characteristics of this obtrusive personality may be briefly discussed.

Maniclike reactions were observed among the feeble-minded and also among those of normal intelligence, but the latter were considered as being of a psychopathic character. During this study 26, or 12.6 per cent of the women observed (17 white and 9 colored), had the obtrusive temperament. Of the 17 white cases, 7 were feeble-minded and 10 were classed as constitutionally psychopathic inferiors. Of the 9 colored cases, 5 were feeble-minded and 4 were psychopathic inferiors. In some instances the reaction occurred episodically and in others habitually, but it always interfered with proper adaptation.

During their episodes of excitement, a feeling of elation and well-being induced activity in the sexual sphere. In consequence they were liable to be promiscuous and intensely potent. This group showed in early life an excessive amount of energy and overactivity, characterized by too much stimulation and tension. In other words they are "flighty," easily stimulated to inordinate activity and impulsiveness. Certain episodes of mania and depression in this type may be cited. One example is the case of a prostitute 30 years of age, infected with both gonorrhoea and syphilis, and committed to the institution on a charge of adultery. She began school when 6 and finished the eighth grade when 15. She always liked to attend school, made good grades, and took advantage of the opportunities to obtain an education. Her intelligence was normal.

After leaving school she worked for a while as a domestic servant and lived at home with her mother. At this time she met a man some years her senior, whom she agreed to marry. Her mother liked him, but as the time for the marriage approached, the girl wavered and did not wish to marry. Her mother finally persuaded

her to marry, at least for a home. Of her husband she said: "He was a nasty nice man; he had no vices." An hour after her marriage she "hated him," but lived with him about 6 years. Frequently she seriously thought of leaving him, as his relatives made life miserable for her. They were jealous, she insisted, because she "had nice things to keep house with."

She first became pregnant 3 years after marriage, but did not desire the child and was quite upset over the prospect of bearing children. This, she said, was due to the fact that children might interfere with her leaving him or her making her own living. During that pregnancy she was "nervous" and could not sleep. The child died when he was about 2½ years old and during the woman's second pregnancy. The second child died a month after its birth. She took these deaths very hard and soon afterwards separated from her husband. For 2 years she traveled over the western part of the United States, working as a domestic. At the expiration of that time she suffered an attack of depression.

During this period of depression she was very despondent, could not sleep, remained in bed a large part of the time, and could not work. She finally attempted to shoot herself, but was prevented from doing so. It is unknown what lifted her out of this depression, but following it she became very happy, excitable, and overactive. During the episode of excitement, she traveled to different cities in the West, earning her living by prostitution. This episode of excitement lasted about 9 months, when she again developed a depression.

During this period of depression she was sexually anesthetic and very subdued, but drank freely, sometimes until unconscious. How long this depression lasted she was unable to state; but afterwards she had another period of excitement, when she was very amorous and active, sleeping only two or three hours at night. Alcohol, which she drank to excess, made her more excitable.

She was unable to tell through how many episodes of depression and excitement she had passed, as no doubt many of them were marked by excessive indulgence in alcohol. During her last excitement she plied her trade with such diligence and disregard of health that her friends undertook to advise her to rest. In explaining her conduct she stated that she was money mad, and during one week earned \$150 as a prostitute. Her fees were at the rate of \$2. This illustrates very well her state of excitement and overactivity.

In company with another prostitute and 2 men she toured by automobile to a distant resort town for rest. They quarreled a good deal on their way, drank frequently and upon arrival were without funds. She and her male partner attempted to return home by rail, traveling a short distance each day on the money she earned by prostitution. They had crossed 3 States by this method when both

were arrested on suspicion of being implicated in a local robbery. At the preliminary hearing she plead guilty to a charge of adultery and was sentenced to the industrial farm for 6 months.

The psychopathic traits of character observed in this case are responsible for her antisocial conduct and for bringing her within the scope of the codes. Her reactions toward the community have been those of a mentally disordered person, mild in some instances, but, nevertheless, abnormal. To the community her psychopathic traits have been masked by alcoholic indulgence, which was a part of her mental trouble.

An illustrative example of manic episodes occurring in the feeble-minded is the case of a woman 20 years of age, who graded 7 years by the Binet-Simon scale. She had been a prostitute for years; she was found infected with gonorrhea, and was quarantined. Both she and her sisters, as well as her father, have been problems to the community for years, guilty of petty crimes, such as illicit sale of liquor, alcoholism, prostitution, and dependency. This woman had been a streetwalker for some years, an irresponsible social unit in the community. She was more or less excitable. Her conduct had been condoned because of her recognized mental deficiency. The excitement, which occurs periodically and from which she was suffering at the time of her admission, had been characterized by overactivity, hilarity, and unusual sexual promiscuity. During these excited periods she was very talkative, noisy, swore a great deal, and caused considerable disturbance in the neighborhood. Her excitement and overactivity were always accentuated by alcohol, which she drank to excess whenever she had the opportunity.

On admission to the institution, she was excited, easily stimulated to overactivity, very talkative, and flippant in manner. She was easily stimulated to laugh; she laughed immoderately and quite out of keeping with the situation. Her dress, in harmony with her heightened mood, was characterized by an array of exceedingly bright colors. At the time of the first interview, she was not quite clearly orientated as to place and thought she had seen the examiner before, which was not true. There was no physical sign indicative of organic psychoses.

Habitual manic reactions of less marked type were also observed in other individuals, who might be described as psychopathic inferior of the obtrusive type. An example is afforded in the case of a woman 20 years of age with normal intelligence. Her father was a half-breed Cherokee Indian with a violent and ungovernable temper. He mistreated her mother, who was a submissive, kind-hearted, and hard-working woman. The father never drank, nor was he unduly religious. He was usually very indulgent toward his children, especially toward



the subject. He often made sporadic attempts to curb the children's activities, and at such times was harsh and cruel.

As a child she attended school from her sixth until her thirteenth year, and made good progress in spite of habitual truancy. She was unruly, mischievous, and disobedient to her mother. This attitude was encouraged by the father, who would pat her and call her "his girl." She was always more fond of her father, because her mother corrected her and whipped her too often, sometimes twice a day.

During childhood she always believed that her mother was jealous of her because she was her father's favorite, and that this, perhaps, was the reason why the mother whipped her so much. To support the contention that she was her father's favorite, she stated that he always whipped the other children and petted her. As she grew older, the father would not let her go to places; and so she ran away from home and went to live with her aunt in town. There she did not get along well, played truant from school, and ran away from her aunt. She finished the eighth-grade work and got along with her teachers fairly well.

Since having grown up she has been impulsive in her acts, as she was, even in childhood, never applying herself diligently to anything, and never learning to sew until she came to the institution. She had always, however, had an extra amount of energy, with lots of activity and tension. At times she became unruly and irritable and took delight in worrying people. Yet, with all her energy, she had worked but 3 full days in her life. This was in a position as a waitress.

She married when 15 years of age, but thought seriously of breaking her engagement, and wavered considerably as the time for marriage approached. At the marriage ceremony, when she said "I will," the bridegroom squeezed her hand. From that time she was disgusted with him.

Her husband, according to her statement, was a kind, considerate, good man, and treated her well. She had no regard or feeling for him, and during the first year of their married life she had illicit relations with another. At the end of a year they separated and she lived as the common-law wife of her paramour. She soon tired of him and has since lived a promiscuous sexual life. Because of prostitution she was arrested, and being found diseased, she was quarantined.

During her stay in the institution she was jovial, jolly, and exhilarated in spirits. This mood and the pressure of activity associated with it were out of all proportion to the situation. Besides her prostitution, which she has carried on clandestinely, she had also picked the pockets of her paramours whenever opportunity was offered; but this she claims to have done as a joke.

While the cases referred to above are definitely psychopathic in character, other personalities were observed with characteristics closely allied to these, that perhaps serve as the geneses of unconventional behavior.

#### 5. Cases Allied to Obtrusive Personality.

This group comprises the jolly, jovial, excessively congenial types, somewhat obtrusive in character, but capable of making acquaintances easily. They are usually impulsive and easily stimulated to daring undertakings. In consequence, they often find themselves in compromising situations.

As a type they are usually demonstrative, quite romantic, and very suggestible. Moreover, they may have episodes of depression that limit the capacity for occupation or attacks of irritability that result in inefficiency. It may be assumed in the light of past experiences that this type of individual, with a limited education and under adverse environment, is liable to escapades that would ultimately lead to infection with a venereal disease.

During the course of this survey, 7 white and 8 colored women were observed to have temperaments or personalities that were allied to the obtrusive type.

#### Recapitulation.

The traits of character that stand out prominently in the personalities studied are divided into three large groups, namely: Those in whom the exaggerated estimate of self prevented proper mental and social development; those in whom there was a diminution of contact with the cares and pursuits of others that prevented proper social adjustment; and those showing mood disturbances, pressure of activity, and increased stimulability that interfered with social adaptation. These groups comprised 150, or 72.8 per cent, of the 206 cases studied. In addition to these 150 cases, there were 15 allied to them in characteristics, leaving but 41, or 19.9 per cent, with normal personal make-up.

Many of the 150 cases showed these traits early in life, indicating that educational authorities should recognize these personalities and attempt to develop desirable traits that make for proper balance in mental adjustment and adaptation.

On the other hand, it was observed in these 150 cases that there was a lack of tenderness and regard for their paramours; that their sensual feelings were well developed, but there was no tenderness combined with these, a necessary requisite for the instinctive biological demands of mating. This lack of instinctive development is characteristic of the neurotic and psychopathic constitution.

**PART V. CONCLUSIONS AND RECOMMENDATIONS.**

By **WALTER L. TREADWAY** and **L. O. WELDON**, Passed Assistant Surgeons, United States Public Health Service, and **ALICE M. HILL**, Special Agent of the Children's Bureau, United States Department of Labor.

The presence of so many psychopathic individuals among the groups studied indicates that the problem of delinquency—and particularly of sexual delinquency among girls and women—is a medicopsychological as well as social one. Moreover, the findings of this study as they relate to the make-up of these offenders show the importance of recognizing and understanding certain types of mental reactions in children, which frequently lead to the development of antisocial traits of character in later life, in order to institute suitable methods of corrective training.

The findings indicate the need for an adequate system of medical supervision of children in the schools. The principles of personal hygiene should be taught; a dentist and dental equipment provided; a specialist in diseases of the eye, ear, nose, and throat should serve on the medical staff; and funds should be provided for the purchase of glasses. Similar supervision, instruction, and provision should obtain in all correctional institutions.

Another important step indicated is that medical supervision of school children shall be made to include not only the discovery, correction, and prevention of physical defects, but the detection, also, of such tendencies of behavior as those referred to above, which may later develop into serious defects of mind and character. Such inspection should be part of the State health program, and this program should also make reportable feeble-mindedness and certain forms of insanity.

Since mental defect is so conspicuous in cases of delinquency, the importance of mental hygiene is evident in the control of delinquency as well as in the control of venereal diseases.

Supervision of the mentally defective in the community—the establishment of special classes in public schools for training mental defectives and delinquent children—will also serve to prevent delinquency and the social ills caused by inadequate care of the feeble-minded.

The level of intelligence is likely to be low among delinquent women. Among the group studied it varied considerably. Cognizance must be taken of this fact in establishing a school for their training. Moreover, the difference in mental attainments suggests that individual training should constitute, in large measures, the method of such a school.

Further, the frequent concurrence of mental disorders among the group studied indicates that provision should be made in special State institutions for those children who are unable to profit by

special school classes and for those feeble-minded, epileptic, and insane persons who exhibit distinct antisocial tendencies. Similar provision should be made for psychopathically inferior individuals not generally recognized heretofore as in need of institutional care. The mental status of all individuals in correctional institutions should be considered by a medicopsychologist before they are paroled, and a medicopsychologist should serve in the juvenile and adult courts for the purpose of securing proper mental classification of offenders, thus preventing injustice in disposing of their cases.

A State institution for the feeble-minded which admits only those idiotic and imbecile persons under 15 years of age who are incapable of instruction in the public schools is not an adequate provision for all those mentally defective individuals who complicate the delinquency problem. Proper care and protection should be given also to the feeble-minded who are actual delinquents or likely to become so. By this means the danger to society in general would undoubtedly be lessened. The cost of adequate provision for the feeble-minded would be less than the cost to the community of their neglect and consequent antisocial conduct.

The Kansas Legislature recently passed a law allowing the commitment of mentally defective delinquents to the State institution for the feeble-minded without the consent of parent or guardian. This study has made clear the necessity for such provision.

In public and private relief agencies mental examinations by a competent psychologist or psychiatrist should be given members of families coming to their attention, especially those furnishing difficult problems. Such an examination not only would be of great assistance to the agency in making adequate plans for treatment, but also would prove helpful in many cases by giving a starting point for the diagnosis of causes of immorality in the cases of certain specific individuals.

It is a shortsighted policy which refuses to admit to an industrial school delinquent girls suffering from venereal diseases, but makes no other provision for the training or care of such girls. While it serves the immediate purpose of protecting the girls already in the institution, it allows to remain unchecked sources of danger to public health and to the social standing of the community. Neither is that policy adequate which quarantines the girl until the infectious stage of the disease is past and then turns her back into the community. Morally delinquent girls should, where the evidence warrants, be committed to an industrial school, whether venereally diseased or not; subsequent to commitment, but prior to mingling with girls already within the school, infected girls should be given treatment until danger is past in a quarantine cottage attached to the school or in some other designated place. Where morally delin-

quent girls and women are quarantined in the same institution the juvenile and adult delinquents should be cared for separately. It is unfortunate that in the present situation children as young as 14 must, because of the necessities of the method of providing medical treatment, associate with older and more hardened women.

The age through which girls are protected by laws in regard to age of consent is an important factor in lessening immorality. The legal age of consent in Kansas is 18 years, yet, though 29 of the girls included in this study were under 18 years of age at commitment, and at least 56 (all but 10 of those for whom the age at first lapse from moral conduct was known) had been first immoral before reaching the age of 18, there is no evidence to show that any man was brought into court for violating the law in regard to age of consent in respect to any one of these girls. The man's responsibility for contributing to a girl's delinquency and for the spread of venereal disease should be better recognized, and the man should be punished as well as the girl or woman. It was known that 2 of the inmates of the Kansas State Industrial Farm at the time this study was made had become diseased through the same man, yet the man was allowed to go free.

While some measure of correction may be required, moral delinquency can be curbed better by preventive than by corrective measures. To be effective preventive work should be undertaken early, since the morally delinquent usually enter upon their careers when young.

The inadequate supervision of children which results from the absence of a mother from her home because of gainful employment is conducive to moral delinquency. Provision which would obviate the necessity for such employment or secure adequate supervision for the children should be an effective means of reducing juvenile delinquency.

Also certain economic changes whereby all women who work can earn sufficient to enable them to live in decency and comfort and have a reasonable amount of time and money for recreation will have to be brought about.

Finally, these studies have shown that fundamental among the factors of prostitution are the normal and aggressive reproductive instinct of male and the ignorance, inferiority, and defenselessness of a large number of girls and women whose mental condition makes it difficult or impossible for them to make a living by legitimate means. It seems that the large majority of these women derive little or no satisfaction from their soliciting, but follow prostitution as a sordid commercial arrangement, believing, and, without doubt, correctly, that they can, for the time being, secure more compensation and physical comforts by prostitution than by engaging in any legitimate

occupation which they are qualified to follow. The great majority of these women, owing to inherent defect or lack of opportunity for education and training, have extremely few interests, and can exist only by the most menial occupation.

It is realized that a study of a group of delinquent women, in many individuals at least, is a study of an end-product of bad heredity or poor environment, or both, and is usually barren of immediate reconstructive results. A better understanding of such persons will require a more individual study, beginning in early childhood. To this end, as already suggested, the teacher must be interested, the school physician should have some knowledge of psychiatry, and if possible the services of a skilled psychiatrist should be utilized for consultation in the case of the peculiar or unusual child.

It seems clear also that a large percentage of these women who pass through the courts and drift in and out of various penal institutions should be regarded as in some way mentally abnormal until proved otherwise by a mental and physical examination conducted by a competent psychiatrist.

Modern laws relative to educational standards, with proper enforcement, will aid considerably by diminishing ignorance in those who are educable and in aiding them to a status wherein they can earn a reasonable living wage in a legitimate occupation.

In the case of those who are clearly defective, and who are a menace to a community through their delinquency, there remains no solution but permanent detention under conditions where they can be made at least partly self-supporting.

But after these more obviously needed changes are well on the way to solution, there will remain the problem of that great number of women who engage in clandestine or intermittent prostitution, in whom the demonstration of mental defect, to the satisfaction of the jurist, will often be extremely difficult. The history of prostitution is replete with instances of attempts at repression by the harshest measures and with little permanent result. At the present time such measures alone will accomplish but little in connection with the clandestine and occasional prostitute. The final solution of that problem is, perhaps, most of all a matter of social sentiment and conviction.

Recently we have heard much about the suppression of prostitution, and the abolition of alcohol as a beverage will undoubtedly accomplish considerable good; but there will still remain, however, certain fundamental factors, such as inherent human defect, ignorance, adverse economic conditions, the power of the reproductive instinct, and the inability of many persons to live satisfactorily in the married state.

## ADSORPTION OF CYANIDE GAS BY FOODSTUFFS.

The question of the possibility of adsorption or absorption and retention of cyanide gas by foodstuffs exposed in the process of fumigation of vessels, warehouses, and similar places, to the extent that they are rendered dangerous or injurious to consumers, has arisen from time to time. This matter has recently been carefully investigated by the United States Public Health Service by the practical method of exposing foodstuffs to the fumes of cyanide gas and then feeding them to animals.

The foods selected were fresh bread, which, on account of its spongy structure, offers an excellent condition for adsorption of the gas; and milk, because it is the most available liquid food.

White mice were selected as the experimental animals.

The bread and milk were exposed to cyanide gas under a bell jar of 1.5 cubic feet capacity for periods varying from 2 to 22 hours. On removal of the food from the bell jar a part of the bread was soaked in the milk and immediately placed in a jar containing white mice. Another portion was exposed to the air for from 1 to 3 hours before being fed to mice. Generation of the cyanide gas was controlled by placing a live mouse in the bell jar and observing the symptoms and death of the animal.

The summary and comment of the officer who conducted the experiments are as follows:

"Bread and milk, when exposed to the cyanide gas in the concentration usually advised for fumigating tight compartments, did not absorb or adsorb sufficient cyanide to cause symptoms when fed to white mice.

"When a double amount of cyanide was used and the time of exposure was short, no symptoms were produced in the mice. When the double amount was used and the time of exposure was prolonged, symptoms and death of mice were produced if the bread and milk were offered to mice immediately on removal of the food from the fumigating chamber. After one or two hours' exposure of the food to the air no symptoms were produced.

"*Comment.*—It appears that the symptoms and death of the mice were caused by respiration of cyanide gas that was given off by the bread placed in the jar before sufficient time for aeration of the food had elapsed. No consumption of the bread by the mice which showed symptoms or death from cyanide poisoning was observed. On the contrary, in the experiments which gave no symptoms in mice, a variable amount of the bread was eaten. The absence of symptoms in mice receiving food that had been aerated for from 1 to 2 hours after removal from the fumigating chambers also suggests that a sufficient amount of cyanide fumes may be carried by the bread to cause symptoms if the food is used immediately."

The conclusion from these experiments is that the possibility of food poisoning occurring from food materials exposed to cyanide gas is extremely remote.

**CITY HEALTH OFFICERS, 1920.**

**Directory of Those in Cities of 10,000 or More Population.**

Directories of the city health officers in the cities of the United States having a population of 10,000 or more have been published in the Public Health Reports in 1916, 1917, 1918, and 1919<sup>a</sup> for the information of health officers and others interested in public health activities. These directories have been compiled from data furnished by the health officers. The cities included in this directory are those having 10,000 population or more as estimated by the Census Bureau in 1917.

The asterisk (\*) indicates that the officer so designated has been reported to be a "full-time" health officer. For this purpose a "full-time" officer is defined as "one who does not engage in the practice of medicine or in any other business, but devotes all his time to official business."

City.	Name of health officer.	Official title.
<b>Alabama:</b>		
Anniston.....	*Geo. A. Cryer, M. D.....	County health officer.
Bessemer.....	.....	.....
Birmingham.....	*J. D. Dowling, M. D. <sup>1</sup> .....	Health officer.
Gadsden.....	*C. L. Murphree, M. D.....	County health officer.
Mobile.....	*Chas. A. Mohr, M. D.....	Do.
Montgomery.....	*W. A. McPhaul, M. D.....	City and county health officer.
Selma.....	.....	.....
Tuscaloosa.....	*A. A. Kirk, M. D.....	Do.
<b>Arizona:</b>		
Phoenix.....	H. K. Beauchamp, M. D.....	City health officer.
Tucson.....	Meade Clyne, M. D.....	Health officer.
<b>Arkansas:</b>		
Fort Smith.....	*A. A. McKelvey, M. D.....	District health officer.
Helena.....	.....	.....
Hot Springs.....	B. F. Casada, M. D. <sup>2</sup> .....	Health officer.
Little Rock.....	*John Thames, M. D.....	City health officer.
North Little Rock.....	R. C. Poster, M. D.....	Do.
Pine Bluff.....	Fred C. Rowell, M. D.....	Do.
<b>California:</b>		
Alameda.....	Arthur Hieronymus, M. D.....	Health officer.
Bakersfield.....	S. C. Long, M. D.....	Kern County health officer.
Berkeley.....	E. H. Pape, M. D.....	Health officer.
Eureka.....	John N. Chain, M. D.....	Health officer and city physician.
Fresno.....	Geo. H. Aiken, M. D.....	City health officer.
Long Beach.....	*Ralph L. Taylor, M. D.....	Health officer.
Los Angeles.....	*L. M. Powers, M. D.....	Health commissioner.
Oakland.....	Kirby B. Smith, M. D.....	Health officer.
Pasadena.....	J. S. Hibben, M. D.....	Health officer and city physician.
Pomono.....	*Wm. H. Eaton, M. D.....	Deputy county health officer.
Redlands.....	Wm. A. Taltavall, M. D.....	City physician and health officer.
Riverside.....	Wm. B. Wells, M. D.....	City health officer.
Sacramento.....	*Wm. J. Hanna, M. D.....	Health officer.
San Bernardino.....	F. M. Gardner, M. D.....	Do.
San Diego.....	Geo. B. Worthington, M. D.....	County health officer.
San Francisco.....	*Wm. C. Hassler, M. D.....	Health officer.
San Jose.....	W. C. Bailey, M. D.....	Health officer.
Santa Ana.....	J. I. Clark, M. D.....	City health officer.
Santa Barbara.....	*Arthur W. Sloan.....	Do.
Santa Cruz.....	W. R. Congdon, M. D.....	Public health officer.
Stockton.....	Linwood Dozier, M. D.....	City health officer.
Vallejo.....	Edward A. Peterson, M. D.....	Health officer.
<b>Colorado:</b>		
Boulder.....	Cyrus W. Poley, M. D.....	Director of public health.
Colorado Springs.....	Omer R. Gillett, M. D.....	Health officer.
Denver.....	*William H. Sharpley, M. D. <sup>3</sup> .....	Manager of health and charity.
Fort Collins.....	T. C. Taylor, M. D. <sup>4</sup> .....	Health officer.
Greeley.....	*Thomas Gibbeon.....	City health officer.
Pueblo.....	W. E. Buck, M. D.....	Chief of department of sanitation.
Trinidad.....	G. W. Robinson, M. D.....	City physician.

<sup>a</sup> Reprints Nos. 346, 416, 494, and 539.

<sup>1</sup> Also health officer for Jefferson County and all municipalities in the county.

<sup>2</sup> Also health officer for Garland County.

<sup>3</sup> Also health officer for Denver County.

<sup>4</sup> Also health officer for Larimer County.



City.	Name of health officer.	Official title.
<b>Connecticut:</b>		
Ansonia.....	Frederick C. Goldstein, M. D.....	Health officer.
Bridgeport.....	*William H. Coon, M. D.....	Do.
Bristol.....	Joseph I. Woisard, M. D.....	Do.
Danbury.....	George E. Lemmer, M. D.†.....	Do.
Enfield.....	*George T. Finch, M. D.....	Do.
Greenwich.....	Albert E. Austin, M. D.....	Do.
Hartford.....	*Charles P. Botsford, M. D.....	Superintendent of health.
Manchester.....	D. C. Y. Moore, M. D.....	Chairman of board of health.
Meriden.....	Edgar A. Wilson, M. D.....	Health officer.
Middletown.....	Thomas P. Walsh, M. D.....	Do.
Naugatuck.....		
New Britain.....	*John H. Curtis, M. D.....	Superintendent of health.
New Haven.....	*Frank W. Wright, M. D.....	Health officer.
New London.....	*William H. Mitchell, M. D.....	Do.
Norwalk.....	William J. Tracey, M. D.....	City health officer.
Norwich.....	Edward J. Brophy, M. D.....	Health officer.
Orange.....	C. A. Bavan, M. D.....	Town health officer.
Stamford.....	James J. Costanzo, M. D.....	City health officer.
Torrington.....		
Wallingford.....	M. T. Sheehan, M. D.....	Borough health officer.
Waterbury.....	C. W. S. Frost, M. D.....	Health officer.
Willimantic.....	William P. S. Keating, M. D.....	City health officer.
<b>Delaware:</b>		
Wilmington.....	Howard R. Frantz.....	Secretary of board of health.
<b>District of Columbia:</b>		
Washington.....	*William C. Fowler, M. D.....	Health officer.
<b>Florida:</b>		
Jacksonville.....	*William W. Macdonell, M. D.....	City health officer.
Key West.....	William R. Warren, M. D.....	Do.
Pensacola.....		
Tampa.....	Sheldon Stringer, M. D.....	City physician and health officer.
West Tampa.....	Louis Levy, M. D.....	City physician.
<b>Georgia:</b>		
Albany.....	*H. C. Robles, M. D.....	Health commissioner.
Athens.....		
Atlanta.....	*J. P. Kennedy, M. D.....	City health officer.
Augusta.....	Eugene E. Murphey, M. D.....	President of board of health.
Brunswick.....	*R. W. Todd, M. D.‡.....	Commissioner of health.
Columbus.....	*J. B. Fitzmcrris, M. D.†.....	Health officer.
Macon.....	*T. W. Margrum D. P. H.....	Do.
Rome.....	*R. L. De Saussure, M. D.....	Commissioner of health.
Savannah.....	*W. F. Brunner, M. D.....	Health officer.
Waycross.....	*J. R. Scully, D. V. S.....	Health officer and food inspector.
<b>Idaho:</b>		
Boise.....	Joseph M. Downs, M. D.....	Health officer.
Pocatello.....	J. H. Lynn, M. D.....	City physician.
<b>Illinois:</b>		
Alton.....	A. P. Robertson, M. D.....	Health commissioner.
Aurora.....	Geo. W. Haan, M. D.....	Do.
Belleville.....	B. H. Portuondo, M. D.....	President of board of health.
Bloomington.....	*J. M. Furstman, M. D.....	Health director.
Cairo.....	W. C. Clarke, M. D.....	Health officer and city physician.
Canton.....	Verne Hays, M. D.....	City health commissioner.
Centralia.....	J. W. Armstrong, M. D.....	Health officer.
Champaign.....	W. E. Schowengerdt, M. D.....	Do.
Chicago.....	*John Dill Robertson, M. D.....	Commissioner of health.
Chicago Heights.....	G. F. Schreiber, M. D.....	Health commissioner.
Cicero.....	Bret L. Vilna, M. D.....	Do.
Danville.....	W. C. Dixon, M. D.....	Do.
Deatur.....	*H. H. Neccc, M. D.....	Director of public health.
East St. Louis.....	C. W. Lillie, M. D.....	Health commissioner.
Elgin.....	*A. J. Vclsterff.....	Health officer.
Evanston.....	Clarence T. Roome, M. D.....	Commissioner of health.
Freeport.....	E. H. Best, M. D.....	Health commissioner.
Galesburg.....	E. D. Wing, M. D.....	Commissioner of health.
Granite City.....	J. Harrison Wedig, M. D.....	City physician.
Jacksonville.....	Allen M. King, M. D.....	City health physician.
Joliet.....	*Ed. J. Higgins, M. D.....	Commissioner of health.
Kankakee.....	Chas. K. Smith, M. D.....	Health officer.
Kewanee.....	H. N. Heflin, M. D.....	Commissioner of health.
La Salle.....	*E. W. Weis, M. D.‡.....	Health commissioner.
Lincoln.....	E. C. Gaffney, M. D.....	Health officer.
Mattoon.....	R. J. Coultas, M. D.....	City health officer.
Maywood.....	Harold H. Roberts, M. D.....	Health officer.
Moline.....	A. E. Kohler, M. D.....	City physician.
Monmouth.....	R. C. McMillan, M. D.....	Health officer.
Mount Vernon.....	Andy Hall, M. D.....	City physician.
Oak Park.....	Frank S. Needham, M. D.....	Commissioner of health.
Pekin.....	Lawrence R. Clary, M. D.....	Health officer.

‡ Health officer for city and town.

† Also health officer for Glynn County.

‡ Also health officer for Muscogee County.

‡ Health officer for three cities, La Salle, Peru, and Oglesby.

City.	Name of health officer.	Official title.
<b>Illinois—Continued.</b>		
Peoria	F. A. Garrett, M. D.	Health commissioner.
Quincy	*Fred Fecker	Do.
Rock Island	Albert N. Mueller, M. D.	City physician.
Rockford	J. S. Lundholm, M. D.	Health commissioner.
Springfield	*Albert E. Campbell, M. D.	Superintendent of health.
Streator		
Urbana	Austin M. Lindley, M. D.	President of board of health.
Waukegan	John C. Foley, M. D.	Health commissioner.
<b>Indiana:</b>		
Anderson	J. A. Long, M. D.	Secretary of health board.
Bedford	Harvey Voyles, M. D.	Secretary of city board of health.
Bloomington	John E. Luzadder, M. D.	Do.
Brazil	George W. Finley, M. D.	County health commissioner.
Crawfordsville	Thomas L. Cooksey, M. D.	Do.
East Chicago	J. A. Teegarden, M. D.	Secretary board of health.
Elkhart	Lloyd A. Elliott, M. D.	Do.
Elwood	Charles G. Dick, M. D.	Do.
Evansville	*Porter H. Linthicum, M. D.	Do.
Fort Wayne	Eric A. Crull, M. D.	Health commissioner.
Frankfort	Wm. J. Fernald, M. D.	Secretary of board of health.
Gary	Christopher M. Reyher, M. D.	Do.
Hammond	Wm. A. Buchanan, M. D.	Do.
Huntington	R. F. Frost, M. D.	Do.
Indianapolis	*Herman G. Morgan, M. D.	Health officer.
Jeffersonville	W. Marshall Varble, M. D.	County health commissioner.
Kokomo	T. C. Cochran, M. D.	City health officer.
La Fayette	A. J. Bauer, M. D.	Do.
Laporte		
Logansport	*Edgar L. Tracy	Health officer.
Marion	Geo. R. Daniels, M. D.	City health officer.
Michigan City	Erin O. Krueger, M. D.	Health officer.
Mishawaka	C. A. Dresch, M. D.	Secretary of city board of health.
Muncie	Frederick L. Bunch, M. D.	City health officer.
New Albany	Chester C. Funk, M. D.	Secretary of board of health.
New Castle	W. J. Fugate, M. D.	Secretary of city board of health.
Peru	Laughlin O. Malsbury, M. D.	Health officer.
Richmond	George B. Hunt, M. D.	Secretary of board of health.
Shelbyville	Bayard G. Keency, M. D.	Secretary of city board of health.
South Bend	E. G. Freyeremuth, M. D.	Secretary of board of health and health officer.
Terre Haute	Maurice B. Van Cleave, M. D.	Secretary of city board of health.
Vincennes	Norman E. Beckes, M. D.	Secretary of board of health.
<b>Iowa:</b>		
Boone		
Burlington	Geo. H. Steinle, M. D.	City physician.
Cedar Rapids	R. C. Alt, M. D.	Do.
Clinton	Leslie K. Fenton, M. D.	City health physician.
Council Bluffs	Chas. H. Bower, M. D.	Health officer.
Davenport	*Thos. P. Kennedy	Do.
Des Moines	*H. L. Saylor, M. D.	Health commissioner.
Dubuque	*E. L. Reinecke, M. D.	City physician.
Fort Dodge	*J. D. Lowry, M. D.	City health physician.
Iowa City	John P. Mullin, M. D.	Physician for city health department.
Keokuk	Bruce L. Gilfillan, M. D.	Physician to board of health.
Marshalltown	James F. Battin, M. D.	City health officer.
Mason City	A. D. Smith, M. D.	Superintendent of health and sanitation.
Muscatine	Walter W. Daut, M. D.	Health physician.
Ottumwa	Walter E. Anthony, M. D.	City physician.
Sioux City	B. Courshon, M. D.	Health officer.
Waterloo	Harry W. Sigworth, M. D.	City physician.
<b>Kansas:</b>		
Atchison	Charles W. Robinson, M. D.	City and county health officer.
Chanute	R. A. Light, M. D.	City health officer.
Coffeyville	Walter H. Wells, M. D.	City physician and health officer.
Fort Scott	C. F. Harrar, M. D.	City health officer.
Hutchinson	H. M. Stewart, M. D.	Do.
Independence		
Iola	J. S. Sutcliffe, M. D.	County health officer.
Kansas City	Louis B. Gloyne, M. D.	Commissioner of health and sanitation.
Lawrence	*Arthur W. Clark, M. D.	Superintendent of public health.
Leavenworth	Charles J. McGee, M. D.	City health officer.
Parsons	L. B. Kackley, M. D.	Health officer.
Pittsburg	R. E. Jenkins, M. D.	City health officer.
Salina	S. T. Blodes, M. D.	Do.
Topeka	*Earle G. Brown, M. D.	Do.
Wichita	*W. T. Doherty, M. D.	Health director.
<b>Kentucky:</b>		
Ashland	*Robert D. Higgins, M. D.	Director of Boyd County health department.
Covington	J. M. O'Maley, M. D.	City health officer.
Frankfort	R. M. Coblin, M. D.	Do.
Henderson	Charles L. Nollau, M. D.	Do.
Hopkinsville	Randolph Dade, M. D.	Do.

City.	Name of health officer.	Official title.
<b>Kentucky—Continued.</b>		
Lexington.....	*J. D. Maguire, M. D.	Health officer.
Louisville.....	*T. H. Baker, M. D.	City health officer.
Newport.....	John Todd, M. D.	Do.
Owensboro.....	*John H. Hamilton, M. D.	Director of Daviess County department of health.
Paducah.....	H. P. Lina, M. D.	City health officer.
<b>Louisiana:</b>		
Alexandria.....	*C. M. Abbott, M. D. <sup>9</sup>	Director of public health.
Baton Rouge.....	Philip H. Jones, M. D.	President of board of public health.
Lake Charles.....	*G. C. McKinney, M. D. <sup>10</sup>	Do.
Monroe.....	D. I. Hirsch, M. D.	President of city board of health.
New Orleans.....	*W. H. Robin, M. D.	Superintendent of public health.
Shreveport.....	G. C. Chandler, M. D.	President of board and health officer.
<b>Maine:</b>		
Auburn.....	*Leo F. Hall, M. D.	Health officer.
Augusta.....	*George A. Coombs, M. D.	Do.
Bangor.....	*Harry D. McNeal, M. D.	Do.
Biddeford.....	John W. Mahoney	Do.
Lewiston.....	*L. J. Dumont, M. D.	Do.
Portland.....	*Thomas Tetreau, M. D.	Do.
Sanford.....	C. W. Blagden, M. D.	Do.
Waterville.....	H. W. Abbott, M. D.	Do.
<b>Maryland:</b>		
Baltimore.....	*Charles Hampson Jones, M. D.	Commissioner of health.
Cumberland.....	*Max J. Colton, D. P. H.	Health officer.
Frederick.....	J. M. Goodman, M. D.	City health officer.
Hagerstown.....	C. R. Scheller, M. D. <sup>11</sup>	Health officer.
<b>Massachusetts:</b>		
Adams.....	A. J. Bent, M. D.	Secretary of board of health.
Arlington.....	*William H. Bradley	Agent and clerk.
Attleboro.....	Ralph P. Kent, M. D.	Health officer.
Beverly.....	*Alonzo O. Woodbury	Clerk and agent.
Boston.....	*Wm. C. Woodward, M. D.	Health commissioner.
Brockton.....	Fred. J. Ripley, M. D.	Health officer.
Brookline.....	Francis P. Denny, M. D.	Health officer and agent.
Cambridge.....	Vacant.	Medical inspector for board of health.
Chelsea.....	*William J. Randall	Health officer.
Chicopee.....	*Charles J. O'Brien	Agent of board of health.
Clinton.....	*Edward DeCourcy	Do.
Danvers.....	*Hugo Nappe	Do.
Dedham.....	John W. Fratt, M. D.	Health officer
Easthampton.....	Clemence C. Buckner	Agent of board of health.
Everett.....	*William Gess	Do.
Fall River.....	*Samuel B. Morriss	Do.
Fitchburg.....	*Fred R. Brigham	Do.
Framingham.....	*Fred S. Dodson	Executive officer department of health.
Gardner.....	*W. P. O'Donnell	Agent of board of health.
Gloucester.....	Wm. E. Tucker	Do.
Greenfield.....	*George P. Moore	Health agent and milk inspector.
Haverhill.....	*George T. Lannon	Agent and clerk of board of health.
Holyoke.....	*J. Sidney Wright	Agent and health officer.
Lawrence.....	*Daniel J. Murphy	Chairman of board of health.
Leominster.....	Hugh E. Crain	Agent of board of health.
Lowell.....	*Francis J. O'Hare	Do.
Lynn.....	Michael R. Donovan, M. D.	Commissioner of public health.
Malden.....	Charles E. Prior, M. D.	Chairman of board of health.
Marlboro.....	*John J. Cassidy	Agent of board of health.
Medford.....	Paul J. D. Halsey, M. D.	Health officer.
Melrose.....	Clarence P. Holden, M. D.	Chairman of board of health.
Methuen.....	*John T. Dugdale	Sanitary inspector.
Milford.....	James J. Birmingham.	Do.
Natick.....	William J. Cochran, M. D.	Chairman of board of health.
New Bedford.....	*Wm. G. Kirschbaum	Agent and executive officer.
Newburyport.....	*William Thurston	Agent and clerk.
Newton.....	*Francis Geo. Curtis, M. D.	Chairman of board of health.
North Adams.....	*D. W. Hyde	Agent of board of health.
North Attleboro.....	Amzi B. Shoemaker, M. D.	Health officer.
Northampton.....	*Geo. R. Turner	Agent of board of health.
Northbridge.....	W. E. Bumap	Do.
Peabody.....	*James J. Ray	Health agent.
Pittsfield.....	*A. L. Stone, M. D.	Health officer.
Plymouth.....	George H. Jackson, M. D.	Chairman and physician.
Quincy.....	*Edward A. Bean	Health commissioner.
Revere.....	*Joseph E. Lamb, M. D.	Agent of board of health.
Salem.....	*John J. McGrath	Do.
Saugus.....	Charles E. Light	Health officer.
Somerville.....	Frank L. Morse, M. D.	Medical inspector.
Southbridge.....	*Albert R. Brown	Agent of board of health.
Springfield.....	*William L. Young	Do.

<sup>9</sup> Also health officer for Rapides Parish.

<sup>10</sup> Also health officer for Calcasieu Parish.

<sup>11</sup> Also health officer for Washington County.

City.	Name of health officer.	Official title.
<b>Massachusetts—Contd.</b>		
Taunton.....	Thomas F. Cusick, M. D.....	Chairman and secretary.
Wakefield.....	David Taggart.....	Health officer.
Waltham.....	C. B. Fuller, M. D.....	Director of public welfare.
Watertown.....	*John W. Tapper.....	Health officer and agent of board.
Webster.....	Leon J. Kreff.....	Secretary and health officer.
Westfield.....	*Henry F. Moody.....	Agent and milk inspector.
West Springfield.....	John J. Lysaght.....	Agent of board of health.
Weymouth.....	Frederick L. Doucett, M. D.....	Health officer.
Winchester.....	*Maurice Dinneen.....	Health officer and agent of board of health.
Winthrop.....	*Smith A. Maury.....	Health officer and agent.
Woburn.....	*Edward F. Gorman.....	Agent and secretary of board of health
Worcester.....	James C. Coffey.....	Executive officer.
<b>Michigan:</b>		
Adrian.....	J. P. Bland, M. D.....	Health officer.
Alpena.....	Duncan A. Cameron, M. D.....	Do.
Ann Arbor.....	John A. Wessinger, M. D.....	Do.
Battle Creek.....	*Eugene Miller, M. D.....	Do.
Bay City.....	John A. Kaho, M. D.....	Secretary of board of health.
Benton Harbor.....	Edwin R. Taylor, M. D.....	Health officer.
Cadillac.....	David Ralston, M. D.....	Do.
Detroit.....	*Henry F. Vaughan, C. E., D. P. H.....	Commissioner of health.
Escanaba.....	Harry J. Defnet, M. D.....	Health officer.
Flint.....	*William De Kleine, M. D.....	Do.
Grand Rapids.....	*Clyde C. Siemons, M. D.....	Do.
Hancock.....	M. D. Roberts, M. D.....	Do.
Highland Park.....	Wm. N. Braley, M. D.....	Do.
Holland.....	Byron B. Godfrey, M. D.....	City health officer.
Ironwood.....	*Clarence W. Olson, M. D.....	Health officer and sanitary engineer.
Ishpeming.....	*David Littlejohn, M. D.....	Health officer.
Jackson.....	*Harry B. Neagle, M. D., C. P. H.....	Do.
Kalamazoo.....	*Alvin H. Rockwell, M. D.....	Do.
Lansing.....	*James A. Humphrey, M. D.....	Do.
Laurium.....	J. B. Quick, M. D.....	Do.
Ludington.....	H. E. Hoffman, M. D.....	Do.
Manistee.....	Homer A. Ramsdell, M. D.....	Do.
Marquette.....	*Chas. P. Drury, M. D.....	Do.
Menominee.....	E. V. McComb, M. D.....	Do.
Muskegon.....	*C. J. Addison, M. D.....	Do.
Owosso.....	W. E. Ward, M. D.....	Do.
Pontiac.....	*Charles A. Neale, M. D.....	Do.
Port Huron.....	William J. Duff, M. D.....	Do.
Saginaw.....	J. H. Powers, M. D.....	Do.
Sault Ste. Marie.....	*John J. Griffin, M. D.....	Do.
Traverse City.....	F. Holdsworth, M. D.....	Do.
<b>Minnesota:</b>		
Duluth.....	E. W. Fahey, M. D.....	Director of public health.
Hibbing.....	C. F. Carstens, M. D.....	Health officer.
Mankato.....	Arthur A. Wohlrahe, M. D.....	Do.
Minneapolis.....	*F. E. Harrington, M. D.....	Commissioner of public health.
Red Wing.....	.....	.....
St. Cloud.....	P. E. Stangl, M. D.....	City physician.
St. Paul.....	*Benj. F. Simon, M. D.....	Chief health officer.
Stillwater.....	J. H. Haines, M. D.....	Health commissioner.
Virginia.....	Charles W. Miller, M. D.....	Health officer.
Winona.....	W. V. Lindsay, M. D.....	Do.
<b>Mississippi:</b>		
Columbus.....	C. E. Lehnberg, M. D.....	President of city board of health.
Greenville.....	Jerome B. Hirsch, M. D.....	City physician.
Hattiesburg.....	*B. F. Moseley, M. D.....	City and county health officer.
Jackson.....	Nolan Stewart, M. D.....	City health officer.
Laurel.....	J. B. Jarvis, M. D.....	Do.
Meridian.....	T. J. Houston, M. D.....	Do.
Natchez.....	E. B. Franch, M. D.....	Do.
Vicksburg.....	Sylvan Myers, M. D. <sup>12</sup> .....	Health officer.
<b>Missouri:</b>		
Cape Girardeau.....	J. W. Pearson.....	Do.
Columbia.....	W. A. Norris, M. D. <sup>12</sup> .....	Deputy commissioner of health.
Hannibal.....	R. J. Heavneridge, M. D.....	City physician and president of board of health.
Independence.....	F. L. Cook, M. D.....	City physician.
Jefferson City.....	S. V. Bedford, M. D.....	Do.
Joplin.....	*Robert B. Tyler, M. D.....	Commissioner of health and sanitation
Kansas City.....	*E. H. Bullock, M. D.....	Health director.
Moberly.....	Thos. S. Fleming, M. D.....	City health commissioner.
St. Charles.....	T. L. Hardin, M. D.....	City physician
St. Joseph.....	*Hasbrouck De Lamater, M. D.....	Health officer.
St. Louis.....	*Max C. Starkloff, M. D.....	Health commissioner.
Sedalia.....	.....	.....
Springfield.....	*Edward S. Finch.....	Commissioner of health and sanitation.
Webb City.....	C. H. Creig, M. D.....	City physician.

<sup>12</sup> Also health officer for Warren County.

<sup>13</sup> Also health officer for Boone County.

City.	Name of health officer.	Official title.
<b>Montana:</b>		
Anaconda.....	J. M. Sligh, M. D.	City physician.
Billings.....	*Roscoe C. Main, M. D. <sup>14</sup>	Health officer.
Butte.....	E. R. Grigg, M. D.	City health officer.
Great Falls.....	*Jovyns Dolan, M. D.	Secretary of city board of health.
Helena.....	Max W. Farbour, M. D.	Health officer.
Missoula.....	*F. D. Pease, M. D. <sup>15</sup>	Secretary of board of health.
<b>Nebraska:</b>		
Beatrice.....	G. L. Roe, M. D.	City physician.
Fremont.....	James C. Agee, M. D.	Do.
Grand Island.....	L. Phelan, M. D.	Health officer.
Hastings.....	James V. Beghtol, M. D.	Do.
Lincoln.....	*Chauncey F. Chapman, M. D.	Superintendent of health.
Omaha.....	*James F. Edwards, M. D.	Commissioner of health.
<b>Nevada:</b>		
Reno.....	W. L. Samuels, M. D.	Secretary of board of health.
<b>New Hampshire:</b>		
Berlin.....	*L. W. Wellington.	Health officer.
Concord.....	*Charles E. Palmer.	Sanitary officer.
Do'er.....	*William E. Whiteley.	Executive officer.
Keene.....	Ira H. Prouty, M. D.	Chairman of board of health.
Laconia.....	W. H. True, M. D.	Secretary of board of health.
Manchester.....	*Carl O. Seaman.	Health officer.
Nashua.....	P. J. McLaughlin, M. D.	Chairman of board of health.
Portsmouth.....	George A. Tredick, M. D.	Health officer.
<b>New Jersey:</b>		
Asbury Park.....	*B. H. Obert.....	Do.
Atlantic City.....	Samuel L. Salasin, M. D.	Do.
Bavonne.....	W. W. Brooke, M. D.	Do.
Belleville.....	W. Brand Smith.....	Health officer and sanitary inspector.
Bloomfield.....	Joseph C. Saile, M. D.	Health officer.
Bridgeton.....	*Chas. E. Bellows, Ph. G.	Sanitary inspector.
Camden.....	*John F. Leavitt, M. D.	Health officer.
East Orange.....	*T. Dudley Ballinger.....	Do.
Elizabeth.....	*Louis J. Richards.....	Do.
Englewood.....	*John A. Maason.....	Sanitary inspector.
Garfield.....	Chas. B. Bleasby, M. D.	Health officer.
Gloucester City.....	J. Alonzo Beck, M. D.	Executive officer.
Hackensack.....	George W. Finke, M. D.	Health officer.
Harrison.....	*John T. McClure.....	Do.
Hoboken.....	Joseph F. X. Stack, M. D.	Commissioner of health.
Irvington.....	*Joseph K. Clichenger.....	Sanitary inspector.
Jersey City.....	*James J. Hagan.....	Health officer.
Kearny.....	*H. V. Amerman.....	Do.
Long Branch.....	*R. Clifford Erriekson.....	Do.
Montclair.....	*Miss B. A. Bain, R. N.	Acting health officer.
Millville.....		
Morristown.....	*John J. Belbey.....	Sanitary inspector.
Newark.....	*Charles V. Craster, M. D., D. P. H.	Health officer.
New Brunswick.....	E. I. Cronk, M. D.	Do.
Orange.....	*John O'Brien.....	Do.
Passaic.....	John N. Ryan, M. D.	Do.
Paterson.....	Orville R. Hagen, M. D.	Do.
Perth Amboy.....	*Chas. S. Thompson, D. V. S.	Do.
Phillipsburg.....	Alma L. Williston, M. D.	Do.
Plainfield.....	*N. J. Randolph Chandler.....	Do.
Rahway.....	*Fred M. Williams.....	Sanitary inspector.
Trenton.....	Alton S. Fell, M. D.	Health officer.
Union.....	*Joseph Traut.....	Health investigator.
West Hoboken.....	*Frank A. Frederick.....	Health officer.
West New York.....	August Goetz.....	Chief inspector.
West Orange.....	*D. E. Buckley.....	Health officer.
<b>New Mexico:</b>		
Albuquerque.....	Earl Bowdich.....	Do.
<b>New York:</b>		
Albany.....	*Arthur Sautter, M. D.	Do.
Amsterdam.....	Horace M. Hicks, M. D.	Do.
Auburn.....	Thomas C. Sawyer, M. D.	Do.
Batavia.....	John W. Baker, M. D.	Do.
Beacon.....	Charles B. Dugan, M. D.	Do.
Binghamton.....	C. J. Longstreet, M. D.	Do.
Buffalo.....	*Francis E. Fronczak, M. D., LL. B., D. P. H.	Health commissioner.
Cohoes.....	John Archibald, M. D.	Health officer.
Corning.....	Frank S. Swain, M. D.	Do.
Cortland.....	A. C. Knapp, M. D.	Do.
Dunkirk.....	G. E. Ellis, M. D.	Do.
Elmira.....	Reeve B. Howland, M. D.	Do.
Fulton.....	E. J. Drury, M. D.	Do.
Geneva.....	C. W. Grove, M. D.	Do.
Glens Falls.....	*Virgil D. Selleck, M. D.	Do.
Gloversville.....	Alexander L. Johnson, M. D.	Do.
Hornell.....	Bertis R. Wakeman, M. D.	Do.

<sup>14</sup> Also health officer for Yellowstone County.<sup>15</sup> Also health officer for Missoula County.

City.	Name of health officer.	Official title.
<b>New York—Continued.</b>		
Hudson.....	William D. Collins, M. D.....	Health officer.
Ithaca.....	H. H. Crum, M. D.....	Do.
Jamestown.....	*John J. Mahoney, M. D.....	Superintendent of public health.
Johnstown.....	Frank M. Neundorff, M. D.....	Health officer.
Kingston.....	Frank A. Johnston, M. D.....	Do.
Lackawanna.....	Alois Jokl, M. D.....	Do.
Little Falls.....	George S. Eveleth, M. D.....	Do.
Lockport.....	Thomas E. Spalding, M. D.....	City physician.
Middletown.....	J. L. Hanmer, M. D.....	Health officer.
Mount Vernon.....	John H. Tallman, M. D.....	Do.
Newburgh.....	Thomas J. Burke, M. D.....	Do.
New Rochelle.....	*Edwin H. Coddling, M. D.....	Do.
New York.....	*Royal S. Copeland, M. D.....	Commissioner of health.
Niagara Falls.....	Walter A. Scott, M. D.....	Health officer.
North Tonawanda.....	*Thomas P. C. Barnard, M. D.....	Do.
Ogdensburg.....	John W. Benton, M. D.....	Do.
Olean.....	J. A. Johnson, M. D.....	Do.
Oneonta.....		
Ossining.....	Robert T. Irvine, M. D., D. P. H.....	Do.
Oswego.....	James E. Mansfield, M. D.....	Do.
Peekskill.....	Fred A. Snowden, M. D.....	Do.
Plattsburgh.....	J. H. Lacroque, M. D.....	Do.
Port Chester.....	Wm. J. Sheehan, M. D.....	Do.
Poughkeepsie.....	*Helen L. Palliser, M. D.....	Do.
Rensselaer.....	Richard B. Gray, M. D.....	Do.
Rochester.....	*George W. Goler, M. D.....	Do.
Rome.....	Charles R. Mahady, M. D.....	Do.
Saratoga Springs.....	A. S. Downs, M. D.....	Do.
Schenectady.....	John H. Collins, M. D.....	Do.
Syracuse.....	Henry A. MacGrue, M. D.....	Commissioner of health.
Troy.....	Melville D. Dickinson, M. D.....	Health officer.
Utica.....	Hugh H. Shaw, M. D.....	Do.
Watertown.....	*Isaac W. Brewer, M. D.....	Do.
Watervliet.....	George S. Haswell, M. D.....	Do.
White Plains.....	Edwin G. Ramsdell, M. D.....	Do.
Yonkers.....	Clarence W. Buckmaster, M. D.....	Do.
<b>North Carolina:</b>		
Asheville.....	Carl V. Reynolds, M. D.....	Do.
Charlotte.....	*A. J. Warren, M. D.....	City health officer.
Durham.....	*A. Cheatham, M. D. <sup>14</sup> .....	Superintendent of health.
Greensboro.....	*B. B. Williams, M. D.....	City physician.
High Point.....	W. J. McAnally, M. D.....	Do.
New Bern.....		
Raleigh.....	*Percy Ahrons, M. D. <sup>17</sup> .....	Superintendent of health.
Rocky Mount.....	*H. Lee Large, M. D.....	Superintendent of department of health.
Wilmington.....	*Chas. E. Low, M. D. <sup>18</sup> .....	Health officer.
Winston-Salem.....	*R. L. Carlton, M. D.....	City health officer.
<b>North Dakota:</b>		
Fargo.....	Arthur A. Nichols, M. D.....	Health officer.
Grand Forks.....	*Samuel Claman.....	Health and sanitation officer.
<b>Ohio:</b>		
Akron.....	*Chas. T. Nesbitt, M. D.....	Director of health.
Alliance.....	P. C. Ramsey, M. D.....	Health commissioner.
Ashtabula.....	A. J. Pardee, M. D.....	Health officer.
Barberton.....	Wm. A. Mansfield, M. D.....	Health commissioner.
Bellaire.....	Dexter W. Boone, M. D.....	Do.
Cambridge.....	O. F. Lowry, M. D.....	Do.
Canton.....	*John A. Kappelman, M. D.....	Do.
Chillicothe.....	G. E. Robbins, M. D. <sup>19</sup> .....	Do.
Cincinnati.....	*William H. Peters, M. D.....	Do.
Cleveland.....	*H. L. Rockwood, M. D.....	Do.
Columbus.....	W. L. Dick, M. D.....	Acting health officer.
Coshocton.....	Glenn E. Smith.....	Health commissioner.
Dayton.....	*A. O. Peters, M. D.....	Do.
East Cleveland.....	Geo. B. Stober, M. D.....	Director of health.
East Liverpool.....	Charles H. Bailey, M. D.....	Health commissioner.
Elyria.....	G. E. French, M. D.....	Do.
Findlay.....	*Amos Beardsley.....	Do.
Fostoria.....	*W. N. Caldwell.....	Do.
Fremont.....	E. L. Vermilya, M. D.....	Do.
Hamilton.....	M. F. Vereker, M. D.....	Do.
Ironton.....	E. E. Wells, M. D.....	Health officer.
Lakewood.....	Wallace J. Benner, M. D.....	Inspector of health.
Lancaster.....	C. H. Hamilton, M. D.....	Health commissioner.
Lima.....	Arthur L. Jones, M. D.....	Do.
Lorain.....	Valloyd Adair, M. D.....	Do.
Mansfield.....	John Maglott, M. D.....	Do.
Marietta.....		
Marion.....	*Charles M. Tobin.....	Do.

<sup>14</sup> Also health officer for Durham County.  
<sup>15</sup> Also health officer for Wake County.

<sup>17</sup> Also health officer for New Hanover County.  
<sup>18</sup> Also health commissioner for Ross County.

City.	Name of health officer.	Official title.
Ohio—Continued.		
Martins Ferry.....	*W. S. Tilton.....	Health Commissioner.
Massillon.....	*T. Clarke Miller, M. D.....	Do.
Middletown.....	G. D. Lummas, M. D.....	Do.
Mount Vernon.....	Irvin S. Workman, M. D.....	Do.
Newark.....	W. H. Morgan, M. D.....	Do.
New Philadelphia.....	Joseph Blicensderfer, M. D.....	Do.
Norwood.....	*H. J. Wittenberg, M. D.....	Do.
Piqua.....	J. H. Lowe, M. D.....	Do.
Portsmouth.....	Oral D. Taje, M. D.....	Do.
Sandusky.....	*O. E. Thomas, M. D.....	Do.
Springfield.....	*Rush B. Richison, M. D. <sup>22</sup>	Health director.
Steubenville.....	*Theo W. Smith.....	Health commissioner.
Tiffin.....	J. A. Gosling, M. D.....	Do.
Toledo.....	Chester W. Waggoner, M. D.....	Do.
Warren.....	Geo. N. Simpson, M. D.....	Do.
Youngstown.....	H. E. Welch, M. D.....	Do.
Zanesville.....	George W. McCormick, M. D.....	Do.
Oklahoma:		
Ardmore.....	Walter Hardy, M. D.....	County superintendent of public health.
Chickasha.....	J. C. Ambrister, M. D. <sup>21</sup>	Superintendent of board of health.
Enid.....	M. A. Kelso, M. D.....	City superintendent of health.
Guthrie.....	E. O. Barker, M. D.....	City physician.
McAlester.....	W. C. Graves, M. D. <sup>23</sup>	City health officer.
Muskogee.....	H. T. Ballantine, M. D.....	City superintendent of health.
Oklahoma City.....	J. T. Martin, M. D. <sup>22</sup>	Superintendent of health department.
Sapulpa.....		
Shawnee.....	J. H. Scott, M. D.....	City physician.
Tulsa.....	L. C. Presson, M. D.....	Superintendent of health.
Oregon:		
Astoria.....	Nellie S. Vernon, M. D.....	City and county health officer.
Eugene.....	Seth Kerron, M. D.....	City health officer.
Medford.....	E. B. Pickel, M. D.....	Do.
Portland.....	George Parrish, M. D.....	Do.
Salem.....	R. E. Pomeroy, M. D.....	Health officer.
Pennsylvania:		
Allentown.....	*J. Treichler Butz, M. D., D. D. S. <sup>24</sup>	Do.
Altoona.....	*T. G. Herbert.....	Chief of division of health.
Beaver Falls.....	Chas. Medley.....	Health officer.
Bethlehem.....	Stewart E. Bauch, M. D.....	City physician.
Bradock.....	*Jas. E. Wills.....	Health officer.
Bradford.....	*William Roedell.....	Do.
Bristol.....	*John M. Wright.....	Do.
Butler.....	*H. M. Stanley.....	Do.
Carbondale.....	*P. F. Langan.....	Sanitary officer.
Carlisle.....	*A. P. Litzman.....	Health officer.
Carnegie.....	*A. A. Tarter.....	Do.
Chambersburg.....	Walter J. Fanestock.....	Health inspector.
Charleroi.....	*W. M. Darby.....	Do.
Chester.....	*Jas. MacIntyre.....	Health officer.
Coatesville.....	*Joseph M. Rea.....	Do.
Columbia.....		
Connellsville.....	*Geo. Hetzel.....	Sanitary police.
Dickson City.....	Aaron A. Cantor, M. D.....	Health officer.
DuBois.....	Luther W. Quinn, M. D.....	City physician.
Dunmore.....	Herbert E. Costello.....	Health officer.
Duquesne.....	*John Butler.....	Do.
Easton.....	J. James Condran, M. D.....	Do.
Edwardsville.....	*William J. Davis.....	Sanitary officer.
Erie.....	*J. W. Wright, M. D.....	Health officer and county medical director.
Farrell.....		
Franklin.....	Charles H. Brown, M. D.....	Health officer.
Greensburg.....	*T. Ray Hunter.....	Do.
Harrisburg.....	John M. J. Raunick, M. D.....	Health officer and director.
Hazleton.....	*P. J. Bonner.....	Health officer.
Homestead.....	*James L. King.....	Do.
Johnstown.....	L. W. Jones, M. D.....	Do.
Lancaster.....	*James H. Deen.....	Do.
Lansford.....	G. R. Leonard.....	Do.
Latrobe.....	*John E. Campbell.....	Do.
Lebanon.....	E. H. Gingrich, M. D.....	Do.
Lewistown.....	George Joseph.....	Do.
McKeesport.....	Daniel Stratton.....	Acting health officer
McKees Rocks.....		
Mahanoy.....	*John Sullivan.....	Health officer.
Meadville.....	*Harold M. Remington.....	Do.
Monessen.....	*B. H. Clendenon.....	Do.
Mount Carmel.....	*Fred Gross.....	Do.
Nanticoke.....	*Thomas A. Butkiewicz, sr.....	Do.
New Castle.....	William L. Steen, M. D.....	Do.

<sup>22</sup> Also health director for Clark County.<sup>23</sup> Also health officer for Grady County.<sup>24</sup> Also health officer for Pittsburg County.<sup>21</sup> Also health officer for Oklahoma County.<sup>22</sup> Also medical director for Lehigh County.

City	Name of health officer.	Official title.
<b>Pennsylvania—Contd.</b>		
Norristown.....	*Chas. F. White.....	Health officer.
North Braddock.....	*Robert M. Sylvès.....	Do.
Oil City.....	*W. J. Lewis.....	Do.
Old Forge.....	.....	Do.
Olyphant.....	*James L. O'Mally.....	Do.
Philadelphia.....	*C. Lincoln Furbush, M. D.....	Director of department of publichealth.
Phoenixville.....	Charles F. Fisher.....	Health officer.
Pittsburgh.....	*Wm. H. Davis.....	Director of department of publichealth.
Pittston.....	*Thos. F. Tracey.....	Health officer.
Plymouth.....	H. G. Templeton, M. D.....	Do.
Pottstown.....	*Clymer Missimer.....	Do.
Pottsville.....	*O. L. Kleckner.....	Do.
Punxsutawney.....	Frank E. Boney.....	Do.
Reading.....	*Ira J. Hain.....	Do.
Scranton.....	N. E. Newbury, M. D.....	Director of department of publichealth.
Shamokin.....	*A. Campbell.....	Health officer.
Sharon.....	Will M. Stewart.....	Secretary of bureau of health.
Shenandoah.....	*Cyrus Gaise.....	Health officer.
Steelton.....	*E. G. Butler.....	Do.
Sanbury.....	*Victor A. Koble.....	Do.
Tamaqua.....	*Henry B. Myers.....	Do.
Taylor.....	E. E. Edwards, M. D.....	Do.
Uniontown.....	*W. C. Hall.....	Do.
Warren.....	R. N. Brown.....	Do.
Washington.....	*J. G. Dinsmore.....	Do.
West Chester.....	Joseph Scattergood, M. D.....	County medical director.
Wilkes-Barre.....	.....	.....
Wilkinsburg.....	*J. M. Snyder.....	Health officer.
Williamsport.....	Clarence E. Shaw, M. D.....	Do.
York.....	J. Frank Small, M. D.....	Director of public health.
<b>Rhode Island:</b>		
Central Falls.....	A. R. V. Fenwick, M. D.....	Superintendent of health.
Cranston.....	Daniel S. Latham, M. D.....	Superintendent of health and city physician.
Cumberland.....	Albert E. Barnes, M. D.....	Health officer.
East Providence.....	Irving W. Slack, M. D.....	Do.
Lincoln.....	H. A. Manchester, M. D.....	Do.
Newport.....	*J. W. Sampson.....	Executive officer of board of health.
Pawtucket.....	Charles H. Holt, M. D.....	Superintendent of health.
Providence.....	*Charles V. Chapin, M. D.....	Do.
Warwick.....	Ralph Fred Lockwood, M. D.....	Health officer.
West Warwick.....	T. F. Darby, M. D.....	Acting health officer.
Woonsocket.....	Thos. J. McLaughlin, M. D.....	Health officer.
<b>South Carolina:</b>		
Anderson.....	*James Carl Mitchell, V. M. D.....	Do.
Charleston.....	*J. Merceir Green, M. D.....	Do.
Columbia.....	*Clarence E. Smith, D. V. S.....	City health officer.
Greenville.....	*W. W. Richards, D. V. S.....	Commissioner of health.
Spartanburg.....	*William O. Wrightson, M. D.....	Director of health.
<b>South Dakota:</b>		
Aberdeen.....	*Chas. F. Lynch, M. D.....	Health officer.
Sioux Falls.....	*I. Pemberton P. Hollingsworth, M. D.....	Director of public health.
<b>Tennessee:</b>		
Chattanooga.....	*Stanton H. Barrett, M. D.....	Director of health and sanitation.
Jackson.....	W. G. Saunders, M. D.....	Health officer.
Johnson City.....	E. A. Long, M. D.....	City physician.
Knoxville.....	Wm. R. Cochran, M. D.....	Director of department of health.
Memphis.....	J. L. Andrews, M. D.....	Superintendent of health department.
Nashville.....	*William E. Hibbett, M. D.....	City health officer.
<b>Texas:</b>		
Ablene.....	.....	.....
Amarillo.....	R. M. Walker, M. D.....	Health officer.
Austin.....	*C. H. Brownlee, M. D.....	City health officer.
Beaumont.....	Ernest D. Mabry, M. D.....	Do.
Brownsville.....	E. E. Dickason, M. D.....	Do.
Cleburne.....	B. H. Turner, M. D.....	County health officer.
Corpus Christi.....	W. E. Wills, M. D.....	City health officer.
Corsicana.....	T. O. Wills, M. D.....	Do.
Dallas.....	*Leslie C. Frank, C. E.....	Director of public health.
Denison.....	W. T. Booth, M. D.....	City health officer.
El Paso.....	Hugh S. White, M. D.....	Do.
Fort Worth.....	Isaac A. Withers, M. D.....	City physician.
Galveston.....	W. L. Hoecker, M. D.....	City health physician.
Greenville.....	M. M. Chandler, M. D.....	City health officer.
Houston.....	*Arthur H. Flickwir, M. D.....	Do.
Laredo.....	H. M. Austin, M. D.....	Do.
Marsball.....	Chas. E. Heartsill, M. D.....	Do.
Palestine.....	E. V. Converse, M. D.....	Do.
Paris.....	Lucian Michalson, M. D.....	Do.
San Angelo.....	A. C. DeLong, M. D.....	Do.
San Antonio.....	*W. A. King, M. D.....	City health physician.
Sherman.....	.....	.....
Temple.....	T. F. Bunkley, M. D.....	City health officer.
Texarkana.....	Wm. Hibbitts, M. D.....	City health officer.



City.	Name of health officer.	Official title.
<b>Texas—Continued.</b>		
Tyler.....	Albert Woldert, M. D.	City health officer.
Waco.....	R. F. Minnock, M. D.	Health officer and city physician.
Wichita Falls.....	M. A. Beckman, M. D.	City health officer.
<b>Utah:</b>		
Ogden.....	*J. M. Elliott, M. D.	Sanitary and health officer.
Provo.....	Walter T. Hasler, M. D.	City physician.
Salt Lake City.....	Willard Christophersen, M. D.	Health commissioner.
<b>Vermont:</b>		
Barre.....	C. H. Burr, M. D. <sup>25</sup>	District health officer.
Burlington.....	*Charles A. Ravey, M. D.	Health officer.
Rutland.....	*Bernie D. Colby, M. D.	Health officer, district No. 7.
<b>Virginia:</b>		
Alexandria.....	*Louis E. Foulks, M. D.	City health officer.
Danville.....	*R. W. Garnett, M. D.	Health officer.
Lynchburg.....	*Mosby G. Ferrow, Ph. D.	Do.
Newport News.....	W. F. Cooper, M. D.	Do.
Norfolk.....	*P. S. Schenck, M. D.	Health commissioner.
Petersburg.....	Robert A. Martin, M. D.	Health officer.
Portsmouth.....	*L. J. Roper, M. D.	Do.
Richmond.....	*C. C. Hudson, M. D.	Do.
Roanoke.....	*W. Brownley Foster, M. D.	Do.
Staunton.....	Geo. H. Thomas, M. D.	City physician.
<b>Washington:</b>		
Aberdeen.....	J. B. Kinne, M. D.	Health officer and city physician.
Bellingham.....	W. W. Ballaine, M. D.	City health officer.
Everett.....	I. W. Parsons, M. D.	Do.
Hoquiam.....	H. C. Watkins, M. D.	Do.
Seattle.....	*H. M. Read, M. D.	Commissioner of health.
Spokane.....	*Ralph Hendricks, M. D.	Health officer.
Tacoma.....	*P. R. Brenton, M. D.	Do.
Vancouver.....	J. M. P. Chalmers, M. D.	City and county health officer.
Walla Walla.....	M. Stiles, M. D.	City health officer.
Yakima.....	*H. H. Smith, M. D.	City and county health officer.
<b>West Virginia:</b>		
Bluefield.....	*J. E. Martin, M. D.	Health officer.
Charleston.....	R. A. Ireland, M. D.	Health commissioner.
Clarksburg.....	William T. Gocke, M. D.	Health officer.
Fairmont.....	H. L. Criss, M. D.	City health officer.
Huntington.....	A. J. Pickering, M. D.	Do.
Martinsburg.....	A. Bruce Eagle, M. D.	Health commissioner.
Morgantown.....	W. C. Kelly, M. D.	City health officer.
Moundsville.....	John H. Luikart, M. D.	Health officer.
Parkersburg.....	W. B. Richardson, M. D.	City health officer.
Wheeling.....	J. E. Marschner, M. D.	Health commissioner.
<b>Wisconsin:</b>		
Appleton.....	H. E. Ellsworth, M. D.	City physician and health officer.
Ashland.....	George W. Harrison, M. D.	Health commissioner.
Beloit.....	*L. M. Field, M. D.	Health officer.
Eau Claire.....	J. F. Farr, M. D.	Executive officer.
Fond du Lac.....	N. J. Malloy, M. D.	City physician and health officer.
Green Bay.....	*E. J. Gosin, M. D.	Health officer and city physician.
Janesville.....	Fred B. Welch, M. D.	City health officer.
Kenosha.....	*G. Windesheim, M. D.	Commissioner of public health.
La Crosse.....	*W. W. Armstrong, M. D.	Commissioner of health.
Madison.....	Harry E. Purcell, M. D.	Health officer.
Manitowoc.....	J. E. Meany, M. D.	Health commissioner.
Marinette.....	S. Berglund, M. D.	Do.
Milwaukee.....	*Geo. C. Ruhland, M. D.	Commissioner of health.
Oshkosh.....	*Bertha V. Thomson, M. D.	Health commissioner.
Racine.....	*William W. Johnston, M. D.	Deputy health officer.
Sheboygan.....	H. C. Reich, M. D.	Commissioner of public health.
Superior.....	*P. G. McGill, M. D.	Health commissioner.
Wausau.....	*C. D. Partridge, M. D.	Health officer.
<b>Wyoming:</b>		
Cheyenne.....	W. A. Wyman, M. D.	County health officer.
Sheridan.....	F. A. Hodson, M. D.	Do.

<sup>25</sup> Address, Montpelier.

**DEATHS DURING WEEK ENDED JUNE 19, 1920.**

[From the "Weekly Health Index," June 22, 1920, issued by the Bureau of the Census, Department of Commerce.]

*Deaths from all causes in certain large cities of the United States during the week ended June 19, 1920, infant mortality (per cent), annual death rate, and comparison with corresponding week of preceding year.*

City.	Population Jan. 1, 1920, subject to revision.	Week ended June 19, 1920.		Average annual death rate per 1,000. <sup>3</sup>	Per cent of deaths under 1 year.	
		Total deaths.	Death rate. <sup>1</sup>		Week ended June 19, 1920.	Previous year or years. <sup>2</sup>
Akron, Ohio.....	208,435	41	10.3	9.6	9.8	25.6
Albany, N. Y.....	113,344	38	17.5	C 13.6	10.5	C 3.4
Atlanta, Ga.....	* 201,732	72	18.6	C 17.1	15.3	C 19.7
Baltimore, Md.....	733,826	192	13.6	A 13.3	19.8	A 18.5
Birmingham, Ala.....	* 197,670	64	16.9	A 19.1	17.2	A 19.2
Boston, Mass.....	747,923	177	12.3	A 16.0	14.7	A 15.5
Bridgeport, Conn.....	143,152	23	8.4		26.1	
Buffalo, N. Y.....	505,675	103	10.6	C 14.3	10.7	C 20.0
Cambridge, Mass.....	109,456	29	13.8	A 10.7	13.8	A 14.4
Chicago, Ill.....	2,701,212	563	10.7	A 13.2	16.3	A 17.1
Cincinnati, Ohio.....	401,158	114	14.8	C 15.7	16.7	C 13.4
Cleveland, Ohio.....	795,836	159	10.4	C 9.0	10.7	C 19.1
Columbus, Ohio.....	237,031	50	11.0	C 9.1	10.0	C 17.5
Dayton, Ohio.....	153,830	27	9.2	C 13.0	18.5	C 8.1
Denver, Colo.....	256,369	70	14.2	A 12.8	7.1	
Detroit, Mich.....	993,739	235	12.3		21.3	
Fall River, Mass.....	* 128,392	34	13.8	C 5.7	14.7	C 28.6
Grand Rapids, Mich.....	* 135,450	31	11.9	C 9.6	25.8	C 16.0
Hartford, Conn.....	138,036	26	9.8		19.2	
Indianapolis, Ind.....	* 290,389	62	16.5	C 14.9	13.0	C 6.0
Jersey City, N. J.....	297,864	56	9.8	C 13.7	7.1	C 22.1
Kansas City, Kans.....	* 101,078	10	5.2		10.0	
Kansas City, Mo.....	* 313,785	90	15.0	C 18.3	14.4	C 8.2
Los Angeles, Calif.....	575,490	140	12.7	A 14.4	12.1	A 9.5
Louisville, Ky.....	234,891	52	11.5	C 14.5		C 10.8
Lowell, Mass.....	112,479	21	9.7	A 13.8	9.5	A 23.1
Memphis, Tenn.....	162,351	72	23.1	C 17.5	9.7	C 17.0
Milwaukee, Wis.....	457,147	83	9.5	A 10.2	22.9	A 16.0
Minneapolis, Minn.....	380,498	83	11.4	C 9.9	8.4	C 7.1
Nashville, Tenn.....	118,342	35	15.4	C 24.5	22.9	C 12.7
Newark, N. J.....	415,609	108	13.6	C 10.3	12.0	C 20.0
New Haven, Conn.....	162,390	41	13.2	C 11.6	9.8	C 20.0
New Orleans, La.....	387,408	137	18.4	A 17.4	12.4	A 14.1
New York, N. Y.....	5,621,151	1,171	10.9	C 10.9	16.4	C 13.9
Oakland, Calif.....	216,361	40	9.6	A 10.1	12.5	A 11.0
Philadelphia, Pa.....	* 1,761,371	433	12.8	* 12.8	14.3	* 12.9
Pittsburgh, Pa.....	588,193	161	14.3	C 14.8	19.3	C 17.0
Portland, Oreg.....	258,288	56	11.3	C 11.9	7.1	C 10.5
Providence, R. I.....	* 263,613	60	11.9	C 9.7	18.3	C 20.4
Richmond, Va.....	* 160,719	57	18.5	C 18.5	10.5	C 17.5
Rochester, N. Y.....	* 264,856	58	11.4	C 10.6	15.5	C 24.1
St. Louis, Mo.....	773,000	196	13.2	C 12.3	7.7	C 12.3
St. Paul, Minn.....	234,595	43	9.6	C 10.8	14.0	C 16.7
San Francisco, Calif.....	506,410	102	10.5	C 15.2	6.9	C 2.8
Seattle, Wash.....	315,652	55	9.1	A 8.8	9.1	A 12.0
Spokane, Wash.....	104,204	26	13.0	C 10.0	7.7	C 25.0
Springfield, Mass.....	129,338	29	11.7		13.8	
Syracuse, N. Y.....	171,647	38	11.5	C 13.2	15.8	C 9.5
Toledo, Ohio.....	243,109	79	16.9	A 14.8	10.1	A 13.7
Trenton, N. J.....	119,289	39	17.0	A 17.2	17.9	A 17.6
Washington, D. C.....	437,571	98	11.7	A 16.3	15.3	A 11.1
Youngstown, Ohio.....	132,358	31	12.2		29.0	

<sup>1</sup> Annual rates per 1,000 estimated population.

<sup>2</sup> "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1918.

<sup>3</sup> Population estimated as of July 1, 1918.

<sup>4</sup> Data are based on statistics of 1915, 1916, and 1917.

*Summary of information received by telegraph from industrial insurance companies for week ended June 19, 1920.*

Policies in force.....	44,055,769
Number of death claims.....	8,117
Death claims per 1,000 policies in force, annual rate.....	9.6

# 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.

### CURRENT STATE SUMMARIES.

#### Telegraphic Reports for Week Ended June 26, 1920.

These reports are preliminary and the figures are subject to change when later returns are received by the State health officers.

ARKANSAS.		Cases.	FLORIDA.		Cases.
Cerebrospinal meningitis.....		2	Cerebrospinal meningitis.....		1
Chicken pox.....		23	Diphtheria.....		4
Diphtheria.....		4	Influenza.....		26
Dysentery.....		10	Malaria.....		28
Hookworm.....		3	Pneumonia.....		34
Influenza.....		3	Poliomyelitis.....		1
Malaria.....		169	Scarlet fever.....		3
Measles.....		18	Typhoid fever.....		10
Ophthalmia neonatorum.....		2			
Pollagra.....		24	GEORGIA.		
Scarlet fever.....		2	Cerebrospinal meningitis.....		1
Smallpox.....		9	Chicken pox.....		10
Trachoma.....		5	Conjunctivitis (acute infectious).....		2
Tuberculosis.....		41	Diphtheria.....		4
Typhoid fever.....		8	Dysentery (amebic).....		15
Whooping cough.....		39	Dysentery (bacillary).....		116
			German measles.....		1
CALIFORNIA.			Hookworm.....		13
Cerebrospinal meningitis:			Influenza.....		2
Alameda County.....		2	Malaria.....		233
Berkeley.....		1	Measles.....		41
Oakland.....		2	Mumps.....		8
San Francisco.....		2	Paratyphoid fever.....		4
Leprosy—Ontario.....		1	Pneumonia.....		5
Lethargic encephalitis—Palo Alto.....		1	Poliomyelitis.....		1
Poliomyelitis:			Scarlet fever.....		3
Fullerton.....		1	Septic sore throat.....		8
San Diego.....		1	Smallpox.....		28
Santa Ana.....		1	Tetanus.....		2
Smallpox.....		26	Tuberculosis (all forms).....		33
Typhoid fever.....		13	Typhoid fever.....		32
			Whooping cough.....		54
DELAWARE.					
Chicken pox.....		2	ILLINOIS.		
Diphtheria.....		3	Cerebrospinal meningitis:		
Measles.....		35	East St. Louis.....		1
Mumps.....		4	Diphtheria:		
Pneumonia.....		2	Chicago.....		102
Scarlet fever:			Scattering.....		18
Hartly.....		2	Influenza—Chicago.....		2
Wilmington.....		8	Lethargic encephalitis—Chicago.....		1
Tuberculosis.....		2			
Whooping cough.....		19			

ILLINOIS—continued.	
	Cases.
<b>Poliomyelitis:</b>	
Chicago.....	1
Cicero.....	1
<b>Pneumonia:</b>	
Chicago.....	73
Scattering.....	2
<b>Scarlet fever:</b>	
Chicago.....	95
Scattering.....	42
<b>Smallpox:</b>	
Brown County—Pearidge Township.....	9
Freeport.....	13
Gladstone.....	7
Petersburg.....	8
Scattering.....	44
Typhoid fever.....	24
<b>INDIANA.</b>	
Diphtheria.....	23
Measles.....	221
<b>Poliomyelitis:</b>	
Blackford County.....	1
Lake County.....	2
Rabies in animals.....	2
Scarlet fever.....	62
Smallpox.....	52
Typhoid fever.....	11
<b>KANSAS.</b>	
Cerebrospinal meningitis.....	1
Chicken pox.....	28
Diphtheria.....	11
Malaria.....	1
Measles.....	138
Mumps.....	10
Pellagra.....	1
Pneumonia.....	6
Scarlet fever.....	21
Smallpox.....	81
Trachoma.....	2
Tuberculosis.....	67
Typhoid fever.....	24
Whooping cough.....	79
<b>LOUISIANA.</b>	
Diphtheria.....	9
Malaria.....	29
Measles.....	21
Pellagra.....	11
Pneumonia.....	11
Scarlet fever.....	3
Smallpox.....	27
Tuberculosis.....	34
Typhoid fever.....	22
<b>MAINE.</b>	
Chicken pox.....	3
Diphtheria.....	7
German measles.....	2
<b>Measles:</b>	
Lakeview.....	9
Lisbon.....	7
Plymouth.....	9
Portland.....	33
Scattering.....	32
Mumps.....	8
Scarlet fever.....	4

MAINE—continued.	
	Cases.
Septic sore throat.....	1
Smallpox.....	1
Tuberculosis.....	27
<b>Typhoid fever:</b>	
Jackman.....	26
Scattering.....	8
Whooping cough.....	30
<b>MARYLAND.<sup>1</sup></b>	
Cerebrospinal meningitis.....	2
Chicken pox.....	30
Diphtheria.....	12
Influenza.....	1
Lethargic encephalitis.....	3
Malaria.....	1
Measles.....	213
Mumps.....	17
Ophthalmia neonatorum.....	3
Pneumonia (all forms).....	50
Smallpox.....	1
Scarlet fever.....	28
Tuberculosis.....	50
Typhoid fever.....	11
Whooping cough.....	53
<b>MASSACHUSETTS.</b>	
Cerebrospinal meningitis.....	2
Chicken pox.....	76
Conjunctivitis (suppurative).....	14
Diphtheria.....	105
German measles.....	7
Influenza.....	4
Measles.....	867
Mumps.....	89
Ophthalmia neonatorum.....	14
Pneumonia (lobar).....	41
Scarlet fever.....	150
Septic sore throat.....	12
Tetanus.....	1
Tuberculosis (all forms).....	163
Typhoid fever.....	17
Whooping cough.....	195
<b>MINNESOTA.</b>	
Cerebrospinal meningitis.....	1
Poliomyelitis.....	1
Smallpox.....	14
<b>MISSISSIPPI.</b>	
Diphtheria.....	1
Scarlet fever.....	5
Smallpox.....	13
Typhoid fever.....	27
<b>MONTANA.</b>	
Diphtheria.....	2
Rocky Mountain spotted or tick fever.....	3
Scarlet fever.....	3
Smallpox.....	20
Typhoid fever.....	7
<b>NEBRASKA.</b>	
Cerebrospinal meningitis—McCook.....	1
Chicken pox.....	15
Diphtheria.....	1

<sup>1</sup> Week ended Friday.

NEBRASKA—continued.		Cases.
<b>Measles:</b>		
Omaha.....	17	
Upland.....	7	
Valentine.....	8	
Scattering.....	29	
<b>Mumps.....</b>	6	
<b>Scarlet fever.....</b>	8	
<b>Smallpox:</b>		
Clay County.....	9	
Omaha.....	9	
Scattering.....	13	
Tuberculosis.....	5	
Whooping cough.....	15	
<b>NEW JERSEY.</b>		
Influenza.....	4	
Pneumonia.....	45	
<b>Smallpox:</b>		
Salem City.....	2	
Woolwich Township.....	1	
<b>NEW MEXICO.</b>		
Cerebrospinal meningitis.....	1	
Chicken pox.....	5	
Diphtheria.....	10	
Malaria.....	1	
Measles.....	24	
Mumps.....	2	
Paratyphoid fever.....	1	
Pneumonia.....	3	
Smallpox.....	3	
Trachoma.....	1	
Tuberculosis.....	27	
Typhoid fever.....	9	
Whooping cough.....	6	
<b>NEW YORK.</b>		
(Exclusive of New York City.)		
Cerebrospinal meningitis:		
Antwerp.....	1	
Cohoes.....	1	
Diphtheria.....	160	
Influenza.....	2	
Lethargic encephalitis.....	6	
Measles.....	1,258	
Pneumonia.....	79	
Scarlet fever.....	101	
Smallpox.....	1	
Typhoid fever.....	26	
Whooping cough.....	248	
<b>NORTH CAROLINA.</b>		
Cerebrospinal meningitis.....	4	
Chicken pox.....	22	
Diphtheria.....	7	
Measles.....	129	
Ophthalmia neonatorum.....	2	
Scarlet fever.....	10	
Septic sore throat.....	4	
Smallpox.....	36	
Trachoma.....	2	
Typhoid fever.....	43	
Whooping cough.....	322	

OHIO.		Cases.
Scarlet fever—Springfield.....		10
<b>Smallpox:</b>		
Akron.....		17
Galion.....		15
Lima.....		22
<b>SOUTH DAKOTA.</b>		
Chicken pox.....		2
Diphtheria.....		5
Measles.....		77
Scarlet fever.....		10
Smallpox.....		10
Tuberculosis.....		3
Typhoid fever.....		2
Whooping cough.....		34
<b>TEXAS.</b>		
Cerebrospinal meningitis—Galveston.....		1
Chicken pox.....		1
Diphtheria.....		7
<b>Dysentery:</b>		
Bastrop County.....		3
Dallas.....		15
Kimble County.....		12
Malaria.....		20
<b>Measles:</b>		
Dallas.....		29
Fort Worth.....		1
Mumps.....		2
Pellagra.....		3
Plague (bubonic)—Galveston.....		1
Pneumonia.....		1
Scarlet fever.....		6
Smallpox.....		29
Tuberculosis.....		8
<b>Typhoid fever:</b>		
Newton.....		7
Wichita Falls.....		48
Scattering.....		15
Whooping cough.....		28
<b>VERMONT.</b>		
Chicken pox.....		39
Diphtheria.....		4
Measles.....		155
Mumps.....		30
Pneumonia.....		2
Scarlet fever.....		6
Typhoid fever.....		3
Whooping cough.....		35
<b>WASHINGTON.</b>		
Chicken pox.....		28
Diphtheria.....		14
German measles.....		2
Measles.....		178
Mumps.....		2
Scarlet fever.....		33
Smallpox.....		56
Tuberculosis.....		2
Typhoid fever.....		6
Whooping cough.....		18

WEST VIRGINIA.		WISCONSIN—continued.	
	Cases.	Milwaukee—Continued.	Cases.
Diphtheria.....	2	Scarlet fever.....	19
Measles:		Smallpox.....	6
Sisterville.....	10	Tuberculosis.....	20
Wheeling.....	18	Whooping cough.....	64
Scattering.....	31	Scattering:	
Scarlet fever.....	3	Cerebrospinal meningitis.....	1
Smallpox.....	9	Chicken pox.....	62
Typhoid fever.....	6	Diphtheria.....	15
		Influenza.....	5
		Measles.....	477
		Poliomyelitis.....	1
		Scarlet fever.....	81
		Smallpox.....	122
		Tuberculosis.....	10
		Typhoid fever.....	4
		Whooping cough.....	65

**Kentucky Report for Week Ended June 19, 1920.**

	Cases.		Cases.
Chicken pox.....	9	Pneumonia.....	4
Diphtheria.....	10	Paratyphoid.....	1
Dysentery.....	1	Scarlet fever.....	14
Malaria.....	1	Smallpox.....	14
Measles:		Tonsillitis.....	1
Beyd County.....	10	Trachoma.....	3
Jefferson County.....	12	Tuberculosis.....	22
Scattering.....	21	Typhoid fever.....	10
Mumps.....	2	Whooping cough.....	6

**SUMMARY OF CASES REPORTED MONTHLY, BY STATES.**

Tables showing, by counties, the reported cases of cerebrospinal meningitis, influenza, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as received.

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<b>MAY, 1920.</b>										
California.....	19	541	175	38	1,830	3	4	348	306	67
Connecticut.....	9	245	6	2	1,207			334		22
Illinois.....	12	768	138	129	5,442		5	1,891	1,129	84
Indiana.....	3	112			3,215		3	661	569	98
Iowa.....	3	69					1	268		518
Minnesota.....	3	232	57		1,890		2	290	572	26
Mississippi.....	5	54	520	7,295	319	677	4	71	375	140
Montana.....	1	20	2		405			71	200	8
New Jersey.....	18	445	24	6	5,364		1	431	16	43
North Carolina.....	9	82			480			89	313	54
North Dakota.....		21			106			65	51	7
Oregon.....		26			523			37	173	4
Pennsylvania.....	21	898		2	11,015		3	1,639	29	151
Rhode Island.....	3	103			324			68		4
South Carolina.....		44	60	43	58	27		17	96	10
South Dakota.....	4	17			694			135	211	3
Washington.....	4	134	8		2,325			210	543	13

**RECIPROCAL NOTIFICATION.****Minnesota—May, 1920.**

*Cases of communicable diseases referred during May, 1920, to other State health departments by department of health of the State of Minnesota.*

Disease and locality of notification.	Referred to health authority of—	Why referred.
<b>Smallpox:</b> Litchfield, Meeker County.	Stanhope, Hamilton County, Iowa..	Patient taken sick with smallpox while on visit in Iowa.
<b>Tuberculosis:</b> Mayo Clinic, Rochester, Olmsted County.	Wallace, Shoshone County, Idaho.. Joliet, Will County, Ill. Bridgeport, Lawrence County, Ill. Marshalltown, Marshall County, Iowa. Sault Ste. Marie, Chippewa County, Mich. Escanaba, Delta County, Mich. Swanton, Fulton County, Ohio. Okmulgee, Okmulgee County, Okla. Ada, Pontotoc County, Okla. Bellefonte, Center County, Pa. Milbank, Grant County, S. Dak. Genea Junction, Walworth County, Wis. Park Falls, Price County, Wis. Park River, Walsh County, N. Dak. Pinewood, Ontario, Canada. Douglass, Ontario, Canada. Winnipeg, Manitoba, Canada.	6 advanced, 6 moderately advanced, 3 (stage of disease not given), 2 incipient cases, left Mayo Clinic for homes.
Moorhead, Clay County...	Hickson, Cass County, N. Dak.....	A specimen of sputum examined by the division of preventable diseases of this board showed tubercle bacilli.

**ACTINOMYCOSIS.****Montana—May, 1920.**

During May, 1920, one case of actinomycosis was reported in Montana.

**ANTHRAX.****State Reports for May, 1920.**

During May, 1920, there were reported two cases of anthrax in California, three in Illinois, one case in Minnesota, two cases in Pennsylvania, and one case in South Dakota.

**City Reports for Week Ended June 12, 1920.**

During the week ended June 12, 1920, one case of anthrax was reported at Boston, Mass., and one was reported at Newton, Mass.

**BERIBERI.****California—May, 1920.**

During May, 1920, one case of beriberi was reported in California.

**CEREBROSPINAL MENINGITIS.**

State Reports for May, 1920.

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Mississippi:</b>	
Alameda County—		Coahoma County.....	1
Oakland.....	5	Harrison County.....	2
Fresno County.....	1	Jefferson County.....	1
Humboldt County—		Panola County.....	1
Eureka.....	1	Total.....	5
Los Angeles County.....	1		
Los Angeles.....	3	<b>Montana:</b>	
San Diego County—		Yellowstone County—	
San Diego.....	1	Laurel.....	1
San Francisco County—			
San Francisco.....	4	<b>New Jersey:</b>	
Santa Clara County—		Burlington County.....	2
San Jose.....	1	Essex County.....	5
Santa Cruz County—		Hudson County.....	2
Santa Cruz.....	2	Mercer County.....	1
Total.....	19	Middlesex County.....	1
		Passaic County.....	2
<b>Connecticut:</b>		Union County.....	5
Fairfield County—		Total.....	18
Bridgeport.....	4		
Hartford County—		<b>North Carolina:</b>	
Bristol.....	1	Chatham County.....	1
New Haven County—		Forsyth County.....	1
New Haven.....	2	Franklin County.....	2
Waterbury.....	1	Harnett County.....	1
Tolland County—		New Hanover County.....	1
Stafford.....	1	Richmond County.....	1
Total.....	9	Surry County.....	1
		Wake County.....	1
<b>Illinois:</b>		Total.....	9
Cook County—			
Chicago.....	4	<b>Pennsylvania:</b>	
La Grange Park.....	1	Cambria County.....	1
Coles County—		Erie County.....	1
Lerna.....	1	Fayette County.....	2
Kane County—		Lancaster County.....	1
Aurora.....	1	Lawrence County.....	1
Macon County—		Luzerne County.....	1
Decatur.....	1	Mercer County.....	2
Putnam County—		Northumberland County.....	1
Granville.....	1	Philadelphia County.....	5
Rock Island County—		Schuylkill County.....	2
Rock Island.....	1	Somerset County.....	1
Stephenson County—		Sullivan County.....	1
Freeport.....	1	Washington County.....	2
Will County—		Total.....	21
Joliet.....	1		
Total.....	12	<b>Rhode Island:</b>	
		Providence County—	
<b>Indiana:</b>		Providence.....	2
Bartholomew County.....	1	Washington County—	
Clay County.....	2	Westerly (town).....	1
Grant County.....	2	Total.....	3
Starke County.....	1		
St. Joseph County.....	2	<b>South Dakota:</b>	
Total.....	8	Marshall County.....	1
		Minnehaha County.....	1
<b>Iowa:</b>		Sully County.....	2
Marshall County.....	1	Total.....	4
Polk County.....	1		
Scott County.....	1	<b>Washington:</b>	
Total.....	3	King County—	
		Seattle.....	2
<b>Minnesota:</b>		Spokane County—	
Mille Lacs County—		Spokane.....	2
Page Township.....	1	Total.....	4
Ramsey County—			
St. Paul.....	1		
Sibley County.....			
New Auburn.....	1		
Total.....	3		



## CEREBROSPINAL MENINGITIS—Continued.

City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Attleboro, Mass.....		1	Lincoln, Nebr.....	1	
Bloomfield, N. J.....		1	Milwaukee, Wis.....	4	
Buffalo, N. Y.....	1		New York, N. Y.....	4	1
Butte, Mont.....		1	Oklahoma City, Okla.....	1	1
Chicago, Ill.....		2	Orange, N. J.....	1	1
Cleveland, Ohio.....	1	1	St. Paul, Minn.....		1
Cohoes, N. Y.....	1	1	Salem, Oreg.....		1
Des Moines, Iowa.....	1	1	Savannah, Ga.....	1	1
Detroit, Mich.....	4		South Bend, Ind.....		1
Dubuque, Iowa.....	1	1	Watertown, Mass.....	1	1
Green Bay, Wis.....	1		Wausau, Wis.....		1
Indianapolis, Ind.....	1				

## DIPHTHERIA.

See Telegraphic weekly reports from States, p. 1609; Monthly summaries by States, p. 1612; and Weekly reports from cities, p. 1635.

## INFLUENZA.

California, Minnesota, and Mississippi Reports for May, 1920.

Place.	New cases reported.	Place.	New cases reported.
California.....	175	Mississippi—Continued.	
Minnesota:		Lawrence County.....	4
Lac qui Parle County—		Lee County.....	31
Madison.....	2	Leflore County.....	1
St. Louis County—		Lincoln County.....	1
Midway Township.....	53	Marion County.....	2
Stunts Township.....	2	Marshall County.....	21
Total.....	57	Newton County.....	7
Mississippi:		Noxubee County.....	4
Alcorn County.....	23	Oktibbeha County.....	8
Chickasaw County.....	17	Panola County.....	11
Clay County.....	1	Pike County.....	30
Coahoma County.....	21	Quitman County.....	19
DeSoto County.....	7	Sunflower County.....	16
Forest County.....	1	Tate County.....	8
Hancock County.....	2	Tishomingo County.....	21
Harrison County.....	67	Tunica County.....	10
Hinds County.....	17	Union County.....	2
Holmes County.....	47	Walthall County.....	6
Itawamba County.....	15	Washington County.....	3
Jones County.....	59	Webster.....	6
Lafayette County.....	11	Winston County.....	10
		Yalobusha County.....	11
		Total.....	520

City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga.....		1	Minneapolis, Minn.....	1	1
Birmingham, Ala.....		1	Nashua, N. H.....	3	
Boston, Mass.....	2		Nashville, Tenn.....		1
Chicago, Ill.....	9	1	New Britain, Conn.....	1	
Cincinnati, Ohio.....	1	1	New York, N. Y.....	5	4
Cohoes, N. Y.....	1		Omaha, Nebr.....	1	1
Cumberland, Md.....	1		Philadelphia, Pa.....	2	1
Dallas, Tex.....	3		San Francisco, Calif.....	1	1
Denver, Colo.....		1	Washington, D. C.....		2
Kansas City, Mo.....	1	1	Westfield, Mass.....	1	1
Lynn, Mass.....	1				

**LETHARGIC ENCEPHALITIS.**

**State Reports for May, 1920.**

During May, 1920, there were reported 12 cases of lethargic encephalitis in California, 8 in Connecticut, 17 in Illinois, 6 in Pennsylvania, and 2 in Rhode Island.

**Berkeley, Calif., Omaha, Nebr., and Yonkers, N. Y.**

During the week ended June 12, 1920, lethargic encephalitis was reported as follows: Berkeley, Calif., one case and one death; Omaha, Nebr., one case and one death; Yonkers, N. Y., one case and one death.

**MALARIA.**

**State Reports for May, 1920.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Illinois—Continued.</b>	
Alameda County—		Gallatin County—	
Alameda .....	1	Shawneetown .....	1
Oakland .....	1	Hamilton County—	
Butte County—		Mayberry Township .....	2
Chico .....	1	Henry County—	
Gridley .....	2	Annawan .....	1
Colusa County—		Jackson County—	
Colusa .....	5	De Soto Township .....	2
Fresno County .....	1	Jasper County—	
Fresno .....	1	Rose Hill .....	1
Glenn County—		Kane County—	
Oriand .....	1	Flgin .....	1
Los Angeles County—		Kankakee County—	
Los Angeles .....	3	Aroma Park .....	2
Auburn County—		Lawrence County—	
Auburn .....	1	Russellville .....	1
Sacramento County .....	1	Montgomery County—	
Sacramento .....	3	Donnellson .....	1
San Francisco County—		Panama .....	3
San Francisco .....	1	McLean County—	
U. S. N. station, San Francisco .....	9	Colfax .....	4
Santa Clara County—		Martin Township .....	8
Mountain View .....	1	Perry County—	
Shasta County .....	4	South Western Precinct .....	2
Solano County .....	2	Pope County—	
<b>Total.....</b>	<b>38</b>	Golconda .....	4
		Randolph County—	
<b>Connecticut:</b>		Ellis Grove .....	2
Fairfield County—		Saline County—	
Greenwich .....	1	East Eldorado .....	1
Redding .....	1	St. Clair County—	
<b>Total.....</b>	<b>2</b>	Stites Township .....	4
		Union County—	
<b>Illinois:</b>		Reynolds Precinct .....	4
Alexander County—		Vermillion County—	
Thebes .....	3	Rankin .....	1
Bureau County—		Wabash County—	
Bureau .....	1	Bellmont .....	2
Depue .....	6	Wayne County—	
Clay County—		Keith Township .....	1
Clay City Township .....	15	Whiteside County—	
Louisville Township .....	6	Albany .....	5
Clinton County—		Williamson County—	
Germantown .....	24	Cambria .....	2
Cumberland County—		<b>Total.....</b>	<b>129</b>
Greenup Township .....	1		
Dupage County—		<b>Mississippi:</b>	
Glen Ellyn .....	4	Adams County .....	25
Franklin County—		Alcorn County .....	36
Frankfort Heights .....	3	Amite County .....	101
Orient .....	8	Attala County .....	71
Zelig .....	1	Benton County .....	8
Fulton County—		Calhoun County .....	30
Buckheart Township .....	2	Carroll County .....	84
		Chickasaw County .....	51

## MALARIA—Continued.

## State Reports for May, 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Mississippi—Continued.</b>		<b>Mississippi—Continued.</b>	
Choctaw County.....	32	Quitman County.....	157
Clalborne County.....	71	Rankin County.....	36
Clarke County.....	31	Scott County.....	56
Clay County.....	60	Sharkey County.....	170
Coahoma County.....	464	Simpson County.....	50
Copiah County.....	92	Smith County.....	81
Covington County.....	85	Stone County.....	34
De Soto County.....	63	Sunflower County.....	392
Forrest County.....	53	Tallahatchie County.....	224
Franklin County.....	32	Tate County.....	117
George County.....	14	Tippah County.....	60
Greene County.....	80	Tishomingo County.....	90
Grenada County.....	40	Tunica County.....	179
Hancock County.....	125	Union County.....	44
Harrison County.....	22	Walsh County.....	31
Hinds County.....	208	Warren County.....	227
Holmes County.....	168	Washington County.....	191
Humphreys County.....	216	Wayne County.....	28
Issaquena County.....	41	Webster County.....	61
Itawamba County.....	26	Wilkinson County.....	71
Jackson County.....	43	Winston County.....	133
Jasper County.....	85	Yalobusha County.....	96
Jefferson County.....	37	Yazoo County.....	318
Jefferson Davis County.....	37		
Jones County.....	106	Total.....	7,295
Kemper County.....	60		
Lafayette County.....	77	<b>New Jersey:</b>	
Lamar County.....	46	Burlington County.....	1
Lauderdale County.....	45	Essex County.....	1
Lawrence County.....	46	Hudson County.....	1
Leake County.....	79	Mercer County.....	1
Lee County.....	221	Morris County.....	1
Leflore County.....	36	Union County.....	1
Lincoln County.....	92		
Lowndes County.....	90	Total.....	6
Madison County.....	30	<b>Pennsylvania:</b>	
Marion County.....	65	Eric County.....	1
Marshall County.....	52	Lehigh County.....	1
Monroe County.....	206		
Montgomery County.....	72	Total.....	2
Neshoba County.....	47	<b>South Carolina:</b>	
Newton County.....	13	Anderson County.....	4
Noxubee County.....	48	Chesterfield County.....	10
Oktibbeha County.....	62	Horry County.....	1
Panola County.....	114	Marion County.....	14
Pearl River County.....	72	Orangeburg County.....	8
Perry County.....	54	Union County.....	6
Pike County.....	56		
Pontotoc County.....	107	Total.....	43
Prentiss County.....	22		

## City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, La.....	25	1	Lake Charles, La.....	1	
Beaumont, Tex.....		1	Little Rock, Ark.....	2	
Boston, Mass.....	3		Memphis, Tenn.....		1
Brunswick, Ga.....	1		Savannah, Ga.....	1	
Charleston, S. C.....		1	Tuscaloosa, Ala.....		
Dallas, Tex.....	1		Waco, Tex.....	1	
Detroit, Mich.....		1	West Hoboken, N. J.....	1	
Houston, Tex.....	2	1			

## MEASLES.

See Telegraphic weekly reports from States, p. 1609; Monthly summaries by States, p. 1612; and Weekly reports from cities, p. 1635.

**PELLAGRA.**

**California, Mississippi, and South Carolina Reports for May, 1920.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Mississippi—Continued.</b>	
Alameda County—		Marshall County.....	11
Alameda.....	1	Montgomery County.....	4
Napa County.....	1	Neshoba County.....	4
Sierra County.....	1	Noxubee County.....	5
<b>Total.....</b>	<b>3</b>	Oktibbeha County.....	2
<b>Mississippi:</b>		Panola County.....	10
Adams County.....	5	Pearl River County.....	1
Alcorn County.....	2	Perry County.....	1
Amite County.....	4	Pike County.....	5
Attala County.....	3	Pontotoc County.....	4
Carroll County.....	5	Prentiss County.....	6
Chickasaw County.....	5	Quitman County.....	16
Clalborne County.....	1	Scott County.....	2
Clarke County.....	7	Sharkey County.....	10
Clay County.....	8	Simpson County.....	4
Coahoma County.....	69	Smith County.....	5
Copiah County.....	10	Stone County.....	4
Covington County.....	7	Sunflower County.....	73
De Soto County.....	11	Tallahatchie County.....	15
Forest County.....	4	Tate County.....	4
George County.....	4	Tippah County.....	6
Greene County.....	4	Tishomingo County.....	5
Harrison County.....	3	Tunica County.....	24
Hinds County.....	41	Union County.....	3
Holmes County.....	33	Walthall County.....	3
Humphreys County.....	25	Warren County.....	4
Issaquena County.....	2	Washington County.....	35
Itawamba County.....	2	Wayne County.....	3
Jackson County.....	5	Webster County.....	2
Jasper County.....	10	Winston County.....	1
Jefferson Davis County.....	4	Yazoo County.....	40
Jones County.....	4	<b>Total.....</b>	<b>677</b>
Kemper County.....	1	<b>South Carolina:</b>	
Lafayette County.....	1	Anderson County.....	3
Lauderdale County.....	1	Charleston County.....	1
Lawrence County.....	16	Greenville County.....	3
Leake County.....	1	Greenwood County.....	1
Lee County.....	14	Marion County.....	1
Leflore County.....	3	Spartanburg County.....	14
Lincoln County.....	22	Union County.....	4
Lowndes County.....	4	<b>Total.....</b>	<b>27</b>
Madison County.....	13		
Marion County.....	7		

**City Reports for Week Ended June 12, 1920.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Beaumont, Tex.....	3		New Orleans, La.....	1	1
Birmingham, Ala.....	1	1	Petersburg, Va.....		1
Dallas, Tex.....	1	3	Raleigh, N. C.....		1
Fort Worth, Tex.....	1		Savannah, Ga.....		1
Nashville, Tenn.....	1		Winston-Salem, N. C.....		1

**PLAGUE (HUMAN).**

**Beaumont, Tex.**

One death from human plague occurred in Beaumont, Tex., on June 26, 1920. Diagnosis was confirmed June 27.

**Pensacola, Fla.**

A fourth case of human plague (M. J., colored, aged 16) in Pensacola, Fla., was confirmed June 22, 1920. The patient died June 2.

## PLAGUE (RODENT).

## California.

The following table shows the number of ground squirrels (*Citellus beecheyi*) confirmed as plague infected during the week ended June 12; also the number of squirrels collected and the number examined during the same period:

County.	Plague infection confirmed during week.	Squirrels collected.	Squirrels examined.
Alameda.....	1	0	0
Contra Costa.....	1	0	0
Merced.....	None.	78	78
Monterey.....	None.	194	194
San Benito.....	1	238	177
San Joaquin.....	None.	168	168
San Mateo.....	None.	245	245
Santa Clara.....	1	352	352
Santa Cruz.....	2	353	353
Stanislaus.....	None.	264	264
<b>Total.....</b>	<b>6</b>	<b>1,892</b>	<b>1,831</b>

<sup>1</sup> Shot in May.

At San Francisco 2 rats were examined for plague infection and in Monterey County 10 rabbits were examined. None was confirmed as plague infected.

## New Orleans, La.

During the week ended June 12, 1920, 9,645 rodents were captured and examined for plague infection. One rodent, *Mus norvegicus*, was found to be plague infected. The classification of the rodents captured is as follows: *Mus norvegicus*, 4,564; *Mus rattus*, 190; *Mus alexandrinus*, 394; *Mus musculus*, 4,192; wood rats, 37; miscellaneous, 2; and putrid, 266.

During the week ended June 19, 1920, 7,385 rodents were captured and examined for plague infection. One rodent, *Mus norvegicus*, was found to be plague infected. The classification of the rodents captured is as follows: *Mus norvegicus*, 3,443; *Mus rattus*, 202; *Mus alexandrinus*, 274; *Mus musculus*, 3,155; wood rats, 31; miscellaneous, 5; and putrid, 275.

## PNEUMONIA (ALL FORMS).

## City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Calif.....	2	2	Barberton, Ohio.....	1	2
Albany, N. Y.....	5		Battle Creek, Mich.....	1	
Alliance, Ohio.....		1	Belleville, N. J.....	3	
Alton, Ill.....	1		Benton Harbor, Mich.....		1
Anniston, Ala.....	1		Berkeley, Calif.....		1
Atlanta, Ga.....		3	Beverly, Mass.....	1	1
Atlantic City, N. J.....	2	1	Binghamton, N. Y.....	3	1
Attleboro, Mass.....		1	Birmingham, Ala.....		1
Auburn, N. Y.....	2	1	Bloomfield, N. J.....	4	
Aurora, Ill.....	1		Bloomington, Ill.....		2
Baltimore, Md.....	42	14	Boston, Mass.....	12	12

PNEUMONIA (ALL FORMS)—Continued.

City Reports for Week Ended June 12, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Bridgeport, Conn.		6	Mishawaka, Ind.		2
Brockton, Mass.	1	1	Missoula, Mont.		1
Buffalo, N. Y.	13	7	Mobile, Ala.		3
Butte, Mont.	1	1	Morgantown, W. Va.	1	1
Cambridge, Mass.	1	2	Morristown, N. J.		1
Canton, Ohio		2	Mount Vernon, N. Y.	6	2
Charleston, S. C.		2	Muncie, Ind.		3
Charlotte, N. C.		2	Nashville, Tenn.		2
Chelsea, Mass.	3	1	New Bedford, Mass.		2
Chicago, Ill.	153	41	New Britain, Conn.	1	1
Chicope, Mass.	1	1	Newburyport, Mass.	1	1
Chillicothe, Ohio.	1	1	New Haven, Conn.		6
Cincinnati, Ohio.	6	6	New London, Conn.		1
Cleveland, Ohio.	15	8	New Orleans, La.		1
Clinton, Mass.	1	1	New York, N. Y.	151	102
Cohoes, N. Y.	5	1	Niagara Falls, N. Y.	3	1
Colorado Springs, Colo.		1	North Attleboro, Mass.	1	1
Columbus, Ohio.		8	North Tonawanda, N. Y.	1	1
Covington, Ky.	1	1	Norwood, Ohio.	2	2
Cranston, R. I.	1	1	Oakland, Calif.	2	3
Cumberland, Md.	1	1	Oklahoma City, Okla.		2
Dallas, Tex.	1	1	Olean, N. Y.	1	1
Danville, Ill.		1	Omaha, Nebr.	2	5
Dayton, Ohio.	3	1	Orange, N. J.	2	2
Denver, Colo.		7	Passaic, N. J.	4	2
Detroit, Mich.	25	29	Paterson, N. J.	1	1
Dubuque, Iowa.	1	1	Pawtucket, R. I.		1
East Chicago, Ind.		1	Peoria, Ill.		2
Easthampton, Mass.	2	1	Philadelphia, Pa.	8	26
East Orange, N. J.	1	1	Piqua, Ohio.		1
East St. Louis, Ill.	1	1	Pittsfield, Mass.		1
Elizabeth, N. J.		4	Plainfield, N. J.	1	1
Elkhart, Ind.		1	Plymouth, Mass.		1
Elmira, N. Y.	4	1	Pontiac, Mich.		2
El Paso, Tex.		4	Port Chester, N. Y.	3	1
Evanston, Ill.	1	1	Portland, Me.		1
Everett, Mass.	2	3	Portland, Oreg.		4
Fall River, Mass.	1	1	Poughkeepsie, N. Y.		2
Flint, Mich.	1	4	Providence, R. I.		3
Fort Worth, Tex.		5	Pueblo, Colo.		2
Framingham, Mass.		1	Richmond, Va.		4
Fresno, Calif.	2	1	Rochester, N. Y.	8	1
Grand Rapids, Mich.	6	2	Rock Island, Ill.	1	2
Great Falls, Mont.		2	Rome, N. Y.	1	1
Greenwich, Conn.	1	1	Rutland, Vt.		1
Hackensack, N. J.	1	1	Sacramento, Calif.	2	1
Harrison, N. J.	2	1	St. Joseph, Mo.		3
Hartford, Conn.		7	St. Paul, Minn.		4
Haverhill, Mass.	3	1	Salem, Mass.		1
Hoboken, N. J.	1	1	Salt Lake City, Utah.		1
Holyoke, Mass.	2	1	San Diego, Calif.	2	2
Houston, Tex.	3	1	Sandusky, Ohio.	1	1
Huntington, W. Va.		1	San Francisco, Calif.	5	5
Indianapolis, Ind.		7	Santa Barbara, Calif.		1
Ironwood, Mich.	1	1	Savannah, Ga.		2
Irrington, N. J.	1	1	Schenectady, N. Y.	2	1
Jamestown, N. Y.	2	1	South Bend, Ind.		3
Jersey City, N. J.	6	1	Southbridge, Mass.	5	1
Kalamazoo, Mich.	5	1	Springfield, Ill.		1
Kansas City, Mo.	5	6	Springfield, Mo.		1
Kearny, N. J.	2	1	Springfield, Ohio.		1
Keene, N. H.	1	1	Staunton, Va.		1
Kokomo, Ind.		2	Syracuse, N. Y.	6	4
Lackawanna, N. Y.	4	1	Taunton, Mass.		2
Lancaster, Ohio.		1	Terre Haute, Ind.		1
Lawrence, Kans.	1	1	Toledo, Ohio.		4
Lawrence, Mass.	1	1	Topeka, Kans.	1	1
Leominster, Mass.	1	1	Trenton, N. J.	4	1
Lincoln, Nebr.	1	2	Troy, N. Y.	3	1
Lorain, Ohio.	1	1	Waltham, Mass.	1	1
Los Angeles, Calif.	17	12	Washington, D. C.		14
Louisville, Ky.		7	West Hoboken, N. J.		1
Lowell, Mass.	4	4	West Orange, N. J.	3	1
Lynn, Mass.	3	1	Wheeling, W. Va.	1	3
Malden, Mass.		1	Wichita, Kans.	2	2
Manchester, N. H.	4	4	Wilmington, Del.		6
Marlboro, Mass.	1	1	Winchester, Mass.	2	2
Marquette, Mich.	1	1	Winston-Salem, N. C.		2
Melrose, Mass.		1	Worcester, Mass.	3	5
Memphis, Tenn.		3	Yonkers, N. Y.	1	1
Milwaukee, Wis.		17			
Minneapolis, Minn.		11			

## POLIOMYELITIS (INFANTILE PARALYSIS).

## State Reports for May, 1920.

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Iowa:</b>	
Fresno County—		Cedar County.....	1
Sehna.....	1	<b>Minnesota:</b>	
Los Angeles County—		Crow Wing County—	
Los Angeles City.....	1	Crosby.....	1
Monrovia.....	1	Nicollet County—	
Pasadena.....	1	Courtland Township.....	1
<b>Total.....</b>	<b>4</b>	<b>Total.....</b>	<b>2</b>
<b>Illinois:</b>		<b>Mississippi:</b>	
Cook County—		Carroll County.....	1
Chicago.....	1	Franklin County.....	1
Kane County—		Panola County.....	1
Big Rock Township.....	1	Warren County.....	1
Macon County—		<b>Total.....</b>	<b>4</b>
Decatur.....	1	<b>New Jersey:</b>	
Macoupin County—		Union County.....	1
Staunton.....	1	<b>Pennsylvania:</b>	
Vermilion County—		Cumberland County.....	1
Butler Township.....	1	Union County.....	1
<b>Total.....</b>	<b>5</b>	Westmoreland County.....	1
<b>Indiana:</b>		<b>Total.....</b>	<b>3</b>
Knox County.....	1		
Shelby County.....	1		
Tipton County.....	1		
<b>Total.....</b>	<b>3</b>		

## City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md.....	2	1	Steubenville, Ohio.....	1	1
Chicago, Ill.....	1		Waltham, Mass.....	1	
New York, N. Y.....	1		Washington, D. C.....		1
St. Louis, Mo.....	2				

## ROCKY MOUNTAIN SPOTTED OR TICK FEVER.

## Montana and Washington Reports for May, 1920.

Place.	New cases reported.	Place.	New cases reported.
<b>Montana:</b>		<b>Montana—Continued.</b>	
Garfield County—		Musselshell County—	
Jordan.....	1	Gage.....	3
Granite County—		Roundup.....	1
Drummond.....	1	<b>Total.....</b>	<b>8</b>
Lewis and Clark County—		<b>Washington:</b>	
Helena.....	1	Spokane County.....	1
Marysville.....	1		

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 1609; Monthly summaries by States, p. 1612; and Weekly reports from cities, p. 1635.

SMALLPOX.

State Reports for May, 1920—Vaccination Histories.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Vaccinated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated.	History not obtained or uncertain.
California:						
Alameda County—						
Alameda	1				1	
Berkeley	3		1		2	
Oakland	6				4	2
Butte County—						
Chico	1				1	
Contra Costa County—						
Martinez	2				2	
Eldorado County	1				1	
Fresno County	5				5	
Fresno	7			2	5	
Selma	2				2	
Imperial County—						
Holtville	1				1	
Inyo County	1			1		
Kern County—						
Bakersfield	1				1	
Kings County	3				3	
Hanford	15				15	
Lassen County	12			1	11	
Los Angeles County	16				16	
Asus	11		1	1	3	6
Glendora	1			2	1	
Long Beach	18			2	16	
Los Angeles	57			7	34	16
Monrovia	2				2	
Santa Monica	1				1	
Sierra Madre	1				1	
Venice	3				3	
Yosemite County—						
Yosemite	1			1		
Mendocino County—						
Fort Bragg	13			1	12	
Ukiah	1				1	
Merced County	1				1	
Monterey County—						
Pacific Grove	1				1	
Napa County	1			1		
St. Helena	8			2	6	
Grass Valley	1					1
Orange County	4			1	3	
Santa Ana	1				1	
Riverside County	5				5	
Riverside	1				1	
Sacramento County—						
Sacramento	7		1	1	4	1
San Bernardino County	1				1	
Needles	1		1			
Ontario	1					1
Redlands	1					1
San Diego County—						
San Diego	6		1	1	4	
San Francisco County—						
San Francisco	17					17
San Joaquin County	3			1		2
Lodi	10					10
Manteca	2					2
Stockton	3			1		2
San Luis Obispo County	1					1
Arroyo Grande	1					1
Santa Clara County	9			3		6
San Jose	1					1
Santa Cruz County—						
Santa Cruz	3					3
Siskiyou County—						
Montague	3					3



SMALLPOX—Continued.

State Reports for May, 1920—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Vaccinated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated.	History not obtained or uncertain.
<b>California—Continued.</b>						
Sonoma County—						
Santa Rosa.....	2				2	
Stanislaus County—						
Tohama County—						
Red Bluff.....	1				1	
Tulare County—						
Lindsay.....	3				3	
Visalia.....	6				6	
Ventura County—						
.....	1				1	
<b>Total.....</b>	<b>306</b>		<b>7</b>	<b>27</b>	<b>244</b>	
<b>Minnesota:</b>						
Anoka County—						
Blaine Township.....	1				1	
Becker County—						
Lake View Township.....	1				1	
Beltrami County—						
Bemidji.....	1				1	
Benton County—						
St. Cloud.....	3				3	
Blue Earth County—						
Mankato.....	3				2	
Garden City Township.....	1				1	
Carlton County—						
Barnum Township.....	1				1	
Moose Lake Township.....	1				1	
Cass County—						
Lima Township.....	4				4	
Chippewa County—						
Clara City.....	4				1	
Granite Falls.....	2				2	
Maynard.....	1				1	
Milan.....	2				2	
Montevideo.....	2				2	
Granite Falls Township.....	7				7	
Louriston Township.....	2				2	
Chisago County—						
Fish Lake Township.....	2				2	
Clay County—						
Moorhead.....	3				1	
Elmwood Township.....	4				4	
Crow Wing County—						
Brainerd.....	2				2	
Crosby.....	2				2	
Manganese.....	2				2	
Dakota County—						
South St. Paul.....	1				1	
Dodge County—						
West Concord.....	1				1	
Douglas County—						
Spruce Hill Township.....	1				1	
Ida Township.....	3				3	
Freeborn County—						
Albert Lea.....	11				11	
Shell Rock Township.....	1				1	
Goodhue County—						
Belvidere Township.....	2				2	
Grant County—						
Barrett.....	1				1	
Elbow Lake.....	3				3	
Land Township.....	1				1	
Lien Township.....	2				2	
Hennepin County—						
Minneapolis.....	185				83	
West Minneapolis.....	3				2	
Dayton Township.....	1				1	
Excelsior Township.....	1				1	
Fort Snelling.....	1				1	
Orono Township.....	2				2	

## SMALLPOX—Continued.

## State Reports for May, 1920—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Vaccinated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated.	History not obtained or uncertain.
<b>Minnesota—Continued.</b>						
Itasca County—						
Grand Rapids.....	2				2	
Kanabec County—						
Knife Lake Township.....	1				1	
Kandiyohi County—						
Atwater.....	1				1	
Willmar.....	3				1	2
Koochiching County—						
Big Falls.....	1			1		
Lake County—						
Two Harbors.....	4				4	
Fall Lake Township.....	7			1	4	2
Lac qui Parie County—						
Boyd.....	1				1	
Dawson.....	1				1	
Madison.....	4			1	3	
Cerro Gordo Township.....	2				2	
Le Sueur County—						
Kasota.....	3				3	
Elysian Township.....	2				2	
Meeker County—						
Litchfield.....	2				2	
Dassel Township.....	1				1	
Litchfield Township.....	2				2	
Morrison County—						
Little Falls.....	1					1
Mower County—						
Austin.....	10				10	
Udolpho Township.....	1				1	
Nobles County—						
Ellsworth.....	2				2	
Norman County—						
Home Lake Township.....	2				2	
Olmsted County—						
Rochester.....	1				1	
Ottertail County—						
Pelican Rapids.....	2				2	
Dunn Township.....	1				1	
Maplewood Township.....	1				1	
Pine County—						
Bruno Township.....	4				4	
Polk County—						
Crookston.....	9				8	1
Pope County—						
Starbuck.....	9				9	
Ramsey County—						
St. Paul.....	40				40	
Red Lake County—						
Emmardville Township.....	1				1	
Garnes Township.....	8		6		1	1
Redwood County—						
Walnut Grove.....	1				1	
North Hero Township.....	1			1		
Renville County—						
Wang Township.....	1				1	
Rice County—						
Faribault.....	20		3	2	14	1
Cannon City Township.....	2				2	
Webster Township.....	1				1	
Wheeling Township.....	1				1	
Rock County—						
Luverne.....	1				1	
St. Louis County—						
Duluth.....	46			2	44	
Winton.....	34			1	33	
Morse Township.....	13				13	
Scott County—						
Belle Plaine.....	3				3	
Sibley County—						
Winthrop.....	1				1	
Stearns County—						
St. Cloud.....	13				13	
St. Joseph.....	1				1	

## SMALLPOX—Continued.

## State Reports for May, 1920—Vaccination Histories—Continued.

Place:	New cases reported.	Deaths.	Vaccination history of cases.			
			Vaccinated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated.	History not obtained or uncertain.
<b>Minnesota—Continued.</b>						
Steele County—						
Owatonna.....	13		2		9	2
Meriden Township.....	2				2	
Todd County—						
Staples.....	2				2	
Wabasha County—						
Chester Township.....	3				3	
Plainview Township.....	1				1	
Washington County—						
Newport.....	1				1	
St. Paul Park.....	4			1	3	
Stillwater.....	1				1	
Winona County—						
Winona.....	3				3	
Wright County—						
Cokato.....	1				1	
Stockholm Township.....	1				1	
Yellow Medicine County—						
Granite Falls.....	1				1	
<b>Total.....</b>	<b>572</b>		<b>16</b>	<b>26</b>	<b>429</b>	<b>101</b>
<b>Montana:</b>						
Big Horn County—						
Pompeys Pillar (R. D.)...	2				2	
Blaine County—						
Harlem.....	15				15	
Cascade County—						
Great Falls.....	14				14	
Custer County—						
Miles City.....	14				14	
Dawson County—						
Glendive.....	7				7	
Fergus County—						
Hobson.....	3				3	
Lewistown.....	2				2	
Flathead County—						
Whitefish (R. D.).....	1				1	
Garfield County—						
Jordan.....	5				1	4
Glacier County—						
Cut Bank.....	1				1	
Hill County—						
Havre.....	2				2	
Madison County—						
Twin Bridges.....	25		3		22	
Missoula County—						
Missoula.....	5				5	
Musselshell County—						
Barber.....	1				1	
Broadview.....	3				3	
Lavina.....	1				1	
Ryegate.....	14				14	
Waldheim.....	1				1	
Park County—						
Livingston (2 R. D.).....	11				9	2
Ravalli County—						
Hamilton.....	1				1	
Richland County—						
Lambert.....	36				36	
Silver Bow County—						
Butte.....	1				1	
Valley County—						
Glasgow.....	3				3	
Yellowstone County—						
Ballentine.....	3				3	
Billings.....	7			1	6	
Hesper.....	1				1	
Laurel.....	20				20	
Worden.....	1				1	
<b>Total.....</b>	<b>200</b>		<b>3</b>	<b>1</b>	<b>190</b>	<b>6</b>

SMALLPOX—Continued.

State Reports for May, 1920—Vaccination Histories—Continued.

Place.	New cases reported.	Deaths.	Vaccination history of cases.			
			Vaccinated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never successfully vaccinated.	History not obtained or uncertain.
New Jersey:						
Bergen County.....	4			2	2	
Burlington County.....	2				2	
Camden County.....	1					1
Essex County.....	6				4	2
Monmouth County.....	1					1
Ocean County.....	1				1	
Passaic County.....	1				1	
Total.....	16			2	10	4

State Reports for May, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Illinois:			Illinois—Continued.		
Adams County—			Ford County—		
Quincy.....	4		Benton.....	5	
Clayton Township....	2		Franklin County—		
Richfield Township..	2		Benton.....	5	
Boone County—			Cave Township.....	6	
Belvidere.....	8		Franklin Heights....	1	
Brown County—			Six Mile Township....	5	
Cooperstown Town- ship.....	2		Thompsonville.....	6	
Pea Ridge Township..	13		West City.....	16	
Ripley.....	14		Zeigler.....	2	
Bureau County—			Barren Township....	3	
Arlington.....	1		Ewing Township.....	2	
Concord Township....	1		Orient.....	1	
Elby Township.....	2		Sesser.....	14	
Carroll County—			Gallatin County—		
Mount Carroll Town- ship.....	2		Equality Township..	5	
Christian County—			Omaha.....	2	
Palmer.....	2		Ridgeway.....	5	
Pana.....	2		Shawneetown.....	3	
Taylorville.....	4		Grundy County—		
Taylorville Township.	7		Varna.....	10	
Clark County—			Verona.....	8	
Casey Township.....	1		Vienna.....	17	
Johnson Township...	3		Hamilton County—		
Clinton County—			Crook Township.....	1	
New Baden.....	1		Crouch Township....	3	
Coles County—			Flanagan Township..	8	
Mattoon.....	1		McLeansboro Town- ship.....	1	
Cook County—			Griggs Township....	5	
Evanston.....	1		Hancock County—		
Harvey.....	1		Appanoose Township	2	
Melrose Park.....	1		Augusta.....	4	
Chicago.....	17		Hardin County—		
Crawford County—			Rosiclare.....	2	
Robinson.....	25		Henderson County—		
Cumberland County—			Stronghurst Town- ship.....	3	
Crook Creek Township	1		Henry County—		
Dewitt County—			Annawan.....	1	
Farmer City.....	3		Geneseo.....	1	
Barnett Township....	1		Cambridge.....	4	
Santa Anne Township	6		Cornwell Township..	1	
Douglas County—			Kewanee.....	16	
Tuscola.....	1		Wetherfield.....	5	
Arthur.....	2		Iroquois County—		
Effingham County—			Ashkum.....	1	
Effingham.....	3		Milks Grove Town- ship.....	2	
Fayette County—			Jasper County—		
Hurricane Township.	3		Granville Township..	1	
Sheron Township.....	1				
Vandalia.....	3				

## SMALLPOX—Continued.

## State Reports for May, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Illinois—Continued.			Illinois—Continued.		
Jefferson County—			Morgan County—		
Mount Vernon Town-			Franklin.....	9	
ship.....	7		Jacksonville.....	45	
Field Township.....	1		Jacksonville Precinct	1	
Jersey County—			Jacksonville State		
Dow Township.....	1		Hospital.....	10	
Jersey Township.....	2		Mercedosa.....	5	
Mississippi Township.	2		Chapin Precinct.....	1	
Jo Daviess County—			Franklin Precinct.....	17	
Dunlieth Township.....	1		South Jacksonville.....	2	
Johnson County—			Murrayville Precinct	1	
Vienna.....	1		Woodson.....	4	
Cyprus.....	3		Moultrie County—		
Sumpson.....	3		Jonathan Creek Town-		
Kane County—			ship.....	3	
Aurora.....	2		Lowe Township.....	3	
Batavis.....	1		Ogle County—		
North Aurora.....	1		Rochelle.....	1	
Kankakee County—			Peoria County—		
Beddick.....	2		Jubilee Township.....	1	
Knox County—			Perry County—		
East Galesburg.....	2		Pinekeyville.....	1	
Galesburg.....	43		Willisville.....	3	
Galesburg Township..	28		South Western Pre-		
Truro Township.....	1		cinct.....	2	
Walnut Grove.....	2		Platt County—		
Lake County—			Goose Creek Town-		
Zion City.....	19		ship.....	1	
Benton Township.....	4		Blue Ridge Town-		
La Salle County—			ship.....	2	
La Salle.....	4		Pike County—		
Lawrence County—			Hull.....	17	
Denison Township.....	1		Nebo.....	1	
Bridgeport.....	7		New Salem.....	1	
Christy Township.....	1		Spring Creek Town-		
Lawrenceville.....	30		ship.....	8	
Larkin Township.....	7		Derry Township.....	1	
Russell Township.....	10		Flint Township.....	1	
Rushville.....	4		Kinderhook.....	6	
St. Francisville.....	1		Barry.....	2	
Lee County—			Pope County—		
Ashton.....	1		Golconda.....	1	
Ashton Township.....	1		Pulaski County—		
Logan County—			Mound City.....	3	
Atlanta.....	1		Putnam County—		
Elkhart.....	1		Fennahwin Township.	1	
McDonough County—			Richland County—		
Macomb.....	10		Bonpas Township.....	6	
Bushnell.....	4		Calboun.....	4	
Industry Township.....	2		Rock Island County—		
East Salem Township	1		East Moline.....	17	
Sciota.....	32		Moline.....	20	
Sciota Township.....	11		Coal Valley.....	1	
McLean County—			Coal Valley Town-		
Bloomington Town-			ship.....	2	
ship.....	1		Silvis.....	1	
Macon County—			Rock Island.....	36	
Blue Mound.....	1		Saline County—		
Decatur.....	7		Carrier Mills.....	10	
Macoupin County—			Eldorado.....	8	
Girard.....	1		Gaskin City.....	2	
Nilwood.....	5		Harrisburg.....	8	
Nilwood Township.....	3		Tate Township.....	1	
Shaws Point Town-			Carrier Mills Town-		
ship.....	2		ship.....	1	
South Otter Town-			East Eldorado.....	14	
ship.....	1		Raleigh Township.....	3	
Madison County—			Rector Township.....	2	
Granite City.....	5		Beulah Heights.....	9	
Madison.....	2		Sangamon County—		
Mason County—			Buffalo Hart Town-		
Mason City.....	1		ship.....	1	
Massac County—			Curran.....	2	
Metropolis.....	2		Fancy Prairie.....	1	
Mercer County—			Riverton.....	1	
Eliza Township.....	11		Springfield.....	2	
Mathersville.....	1		Clear Lake Township.	2	
Viola.....	9		Curran Township.....	2	

SMALLPOX—Continued.

State Reports for May, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Illinois—Continued.</b>			<b>Indiana—Continued.</b>		
Schuyler County—			Kosciusko County.....	4	
Oakland Township.....	2		Lagrange County.....	6	
Scott County—			Lake County.....	20	
Bluffs.....	8		Lawrence County.....	20	
Naples.....	1		Madison County.....	20	
St. Clair County—			Marion County.....	42	
East St. Louis.....	36		Marshall County.....	1	
Freeburg.....	1		Miami County.....	2	
Stephenson County—			Montgomery County.....	3	
Herence Township.....	2		Morgan County.....	5	
Freeport.....	3		Parks County.....	8	
Tazewell County—			Perry County.....	6	
Pekin.....	4		Pike County.....	1	
Union County—			Porter County.....	14	
Jamesboro.....	3		Posey County.....	3	
Vernon County—			Putnam County.....	1	
Sidell Township.....	2		Scott County.....	5	
Danville.....	3		Shelby County.....	11	
Belgium.....	8		Spencer County.....	14	
Cobden.....	6		Starke County.....	3	
Wabash County—			Stenben County.....	4	
Mount Carmel.....	6		St. Joseph County.....	48	
Warren County—			Tulahoma County.....	7	
Monmouth.....	1		Switzerland County.....	5	
Edison Township.....	15		Tipton County.....	13	
Greenbush Township.....	1		Vanderburg County.....	2	
Washington County—			Vermillion County.....	4	
Nashville.....	6		Vigo County.....	21	
Covington Township.....	2		Wabash County.....	27	
Wayne County—			Warwick County.....	3	
Big Mound Township.....	1		Wayne County.....	5	
White County—			Wells County.....	7	
Indian Creek Town- ship.....	6		White County.....	3	
Norris City.....	1		Whitley County.....	6	
Carmi.....	15				
Carmi Township.....	17		<b>Total.....</b>	<b>569</b>	
Whiteside County—			<b>Iowa:</b>		
Erle Township.....	1		Adair County.....	1	
Albany.....	1		Allamakee County.....	4	
Clyde Township.....	1		Audubon County.....	12	
Winn County—			Benton County.....	3	
Crete.....	1		Blackhawk County.....	42	
Joliet.....	20		Boone County.....	20	
Williamson County—			Bremer County.....	3	
Herrin.....	2		Butler County.....	9	
Marion.....	5		Calhoun County.....	11	
Johnson City.....	2		Cass County.....	1	
Winnebago County—			Cerro Gordo County.....	22	
Rockford.....	3		Chickasaw County.....	1	
Winnebago.....	6		Clay County.....	2	
<b>Total.....</b>	<b>1,129</b>		Clinton County.....	2	
<b>Indiana:</b>			Davis County.....	1	
Allen County.....	1		Decatur County.....	1	
Bartholomew County.....	4		Decatur County.....	1	
Boone County.....	2		Des Moines County.....	1	
Carroll County.....	1		Dickinson County.....	1	
Clark County.....	10		Dubuque County.....	46	
Clay County.....	6		Emmet County.....	3	
Clinton County.....	1		Fayette County.....	3	
Daviess County.....	10		Franklin County.....	5	
Decatur County.....	2		Fresnet County.....	1	
Delaware County.....	2		Grundy County.....	5	
Elkhart County.....	5		Hamilton County.....	2	
Franklin County.....	5		Hancock County.....	1	
Fulton County.....	20		Hardin County.....	3	
Gibson County.....	7		Harrison County.....	14	
Grant County.....	1		Henry County.....	7	
Greene County.....	15		Ida County.....	3	
Hamilton County.....	12		Iowa County.....	2	
Howard County.....	24		Jasper County.....	4	
Huntington County.....	17		Jefferson County.....	1	
Jackson County.....	13		Johnson County.....	4	
Jasper County.....	7		Jones County.....	1	
Jay County.....	3		Kossuth County.....	8	
Jennings County.....	3		Linn County.....	28	
Johnson County.....	11		Lucas County.....	1	
Knox County.....	1		Madison County.....	17	
			Mahaska County.....	10	
			Marion County.....	4	
			Marshall County.....	19	

## SMALLPOX—Continued.

## State Reports for May, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>Iowa—Continued.</b>			<b>North Carolina—Continued.</b>		
Mills County.....	2		Halifax County.....	1	
Monroe County.....	1		Haywood County.....	2	
Montgomery County.....	5		Iredell County.....	2	
Page County.....	2		Johnston County.....	5	
Pocahontas County.....	3		Lenoir County.....	3	
Pottawattamie County.....	20		Madison County.....	5	
Poweshiek County.....	6		Martin County.....	1	
Polk County.....	49		McDowell County.....	1	
Ringold County.....	1		Mecklenburg County.....	1	
Scott County.....	30		Nash County.....	7	
Sioux County.....	5		New Hanover County.....	1	
Story County.....	3		Orange County.....	1	
Tama County.....	1		Pasquotank County.....	3	
Taylor County.....	1		Pender County.....	1	
Wapello County.....	19		Person County.....	2	
Warren County.....	13		Pitt County.....	55	
Worth County.....	1		Rockingham County.....	5	
Wright County.....	18		Rowan County.....	3	
<b>Total.....</b>	<b>518</b>		Rutherford County.....	6	
<b>Mississippi:</b>			Sampson County.....	1	
Alcorn County.....	5		Scotland County.....	2	
Attala County.....	7		Surry County.....	1	
Calhoun County.....	5		Vance County.....	9	
Carroll County.....	1		Wake County.....	3	
Coahoma County.....	73		Warren County.....	3	
Copiah County.....	1		Washington County.....	32	
De Soto County.....	7		Watauga County.....	1	
Forrest County.....	1		Wayne County.....	5	
Hinds County.....	7		Wilson County.....	3	
Holmes County.....	11		<b>Total.....</b>	<b>313</b>	
Humphreys County.....	9		<b>North Dakota:</b>		
Issaquena County.....	1		Stark County.....	3	
Jones County.....	2		Cass County—		
Lauderdale County.....	1		Fargo.....	7	
Leflore County.....	26		Dickey County.....	29	
Lowndes County.....	3		Nelson County.....	1	
Madison County.....	8		Stutsman County—		
Marion County.....	1		Jamestown.....	1	
Monroe County.....	7		Steel County.....	5	
Montgomery County.....	6		Hettinger County.....	2	
Oktibbeha County.....	8		Grand Forks County.....	1	
Panola County.....	10		Walsh County.....	1	
Quitman County.....	5		Ransom County.....	1	
Rankin County.....	2		<b>Total.....</b>	<b>51</b>	
Sharkey County.....	7		<b>Oregon:</b>		
Sunflower County.....	27		Clackamas County.....	16	
Tallahatchie County.....	8		Clatsop County.....	1	
Tate County.....	2		Columbia County.....	5	
Tishomingo County.....	1		Cook County.....	3	
Trinity County.....	2		Douglas County.....	1	
Waikah County.....	1		Lane County.....	2	
Warren County.....	9		Marion County.....	3	
Washington County.....	50		Morrow County.....	5	
Webster County.....	13		Multnomah County.....	1	
Yalobusha County.....	4		Polk County.....	5	
Yazoo County.....	4		Portland.....	96	
<b>Total.....</b>	<b>375</b>		Sherman County.....	6	
<b>North Carolina:</b>			Tillamook County.....	1	
Alamance County.....	7		Umatilla County.....	13	
Avery County.....	1		Union County.....	1	
Beaufort County.....	7		Wasco County.....	6	
Bertie County.....	16		Washington County.....	8	
Burke County.....	34		<b>Total.....</b>	<b>173</b>	
Cabarrus County.....	1		<b>Pennsylvania:</b>		
Camden County.....	3		Allegheny County.....	2	
Catawba County.....	3		Beaver County.....	2	
Craven County.....	2		Butler County.....	2	
Cumberland County.....	2		Chester County.....	1	
Edgecombe County.....	19		Erie County.....	2	
Forsyth County.....	12		Lancaster County.....	1	
Franklin County.....	6		Lawrence County.....	5	
Gaston County.....	16		Northampton County.....	1	
Gates County.....	1		Philadelphia County.....	7	
Granville County.....	8		Westmoreland County.....	3	
Guilford County.....	10		<b>Total.....</b>	<b>29</b>	

SMALLPOX—Continued.

State Reports for May, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
<b>South Carolina:</b>			<b>Washington—Continued.</b>		
Anderson County.....	20		Columbia County—		
Barnwell County.....	1		Dayton.....	1	
Cherokee County.....	20		Cowditts County.....	1	
Florence County.....	1		Castle Rock.....	1	
Greenville County.....	12		Kelso.....	4	
Marion County.....	6		Kalama.....	4	
Marlboro County.....	3		Douglas County.....	7	
Orangeburg County.....	7		Waterville.....	1	
Spartanburg County.....	6		Grays Harbor County—		
Sumter County.....	20		Aberdeen.....	28	
<b>Total.....</b>	<b>96</b>		Hequiam.....	2	
<b>South Dakota:</b>			King County.....	20	
Bon Homme County.....	1		Seattle.....	55	
Brule County.....	11		Kittitas County.....	13	
Charles Mix County.....	4		Roslyn.....	6	
Codington County.....	3		Lewis County.....	5	
Davison County.....	100		Vader.....	2	
Gregory County.....	2		Lincoln County.....	4	
Haakon County.....	32		Odessa.....	1	
Hanson County.....	5		Almira.....	1	
Hughes County.....	2		Harrington.....	1	
Hutchinson County.....	1		Pacific County.....	5	
Hyde County.....	4		Raymond.....	3	
Jerauld County.....	1		South Bend.....	1	
Jones County.....	5		Pend Oreille County.....	1	
Lake County.....	1		Newport.....	6	
Lincoln County.....	2		Pierce County.....	20	
Marshall County.....	1		Tacoma.....	29	
Miner County.....	1		Skagit County.....	16	
Minnehaha County.....	4		Mount Vernon.....	5	
Pennington County.....	8		Sedro Woolley.....	7	
Sanborn County.....	1		Snohomish County—		
Spink County.....	1		Everett.....	17	
Sully County.....	3		Marysville.....	1	
Turner County.....	2		Spokane County.....	13	
Union County.....	4		Rockford.....	1	
Yankton County.....	3		Hillyard.....	1	
<b>Total.....</b>	<b>211</b>		Spokane.....	81	
<b>Washington:</b>			Cheney.....	5	
Adams County.....	7		Thurston County—		
Ritzville.....	2		Tenino.....	1	
Washtucna.....	1		Walla Walla County.....	49	
Asotin County.....	3		Walla Walla City.....	15	
Clarkston.....	10		Waitsburg.....	4	
Benton County.....	4		Whatecom County.....	1	
Kennewick.....	1		Bellingham.....	10	
Chelan County.....	6		Whitman County—		
Wenatchee.....	12		Tekoa.....	3	
Clallam County.....	1		Malden.....	2	
Clarke County.....	2		St. John.....	2	
Vancouver.....	1		Yakima County.....	26	
Yacolt.....	3		Yakima.....	8	
			<b>Total.....</b>	<b>543</b>	

City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Aberdeen, S. Dak.....	1		Birmingham, Ala.....	7	
Aberdeen, Wash.....	3		Bloomington, Ill.....	1	
Akron, Ohio.....	7		Bluefield, W. Va.....	8	
Alameda, Calif.....	1		Boise, Idaho.....	4	
Ann Arbor, Mich.....	2		Buffalo, N. Y.....	1	
Appleton, Wis.....	6		Canton, Ohio.....	7	
Atchison, Kans.....	1		Cape Girardeau, Mo.....	2	
Atlanta, Ga.....	7		Carnegie, Pa.....	1	
Aurora, Ill.....	1		Cedar Rapids, Iowa.....	3	
Baltimore, Md.....	3		Charleston, S. C.....	11	
Beatrice, Nebr.....	1		Chicago, Ill.....	2	
Bellingham, Wash.....	2		Cincinnati, Ohio.....	1	
Billings, Mont.....	3		Cleveland, Ohio.....	6	



## SMALLPOX—Continued.

## City Reports for Week Ended June 12, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Coffeyville, Kans.	1		Milwaukee, Wis.	7	
Columbia, S. C.	1		Minneapolis, Minn.	37	
Columbus, Ohio.	2		Missoula, Mont.	1	
Council Bluffs, Iowa.	2		Mobile, Ala.	9	
Dallas, Tex.	3		Montgomery, Ala.	2	
Danville, Va.	2		Muncie, Ind.	1	
Davenport, Iowa.	9		Nashville, Tenn.	1	
Decatur, Ill.	1		New Orleans, La.	11	4
Denver, Colo.	17		Niagara Falls, N. Y.	4	
Des Moines, Iowa.	7		Oakland, Calif.	1	
Detroit, Mich.	36	1	Oklahoma City, Okla.	5	
Dubuque, Iowa.	34		Omaha, Nebr.	14	
Duluth, Minn.	6		Oshkosh, Wis.	4	
East St. Louis, Ill.	4		Parsons, Kans.	2	
El Paso, Tex.	1		Passaic, N. J.	1	
Eugene, Oreg.	1		Peoria, Ill.	1	
Fargo, N. Dak.	2		Philadelphia, Pa.	1	
Fond du Lac, Wis.	1		Pittsburgh, Pa.	1	
Fort Scott, Kans.	4		Pontiac, Mich.	6	
Fort Smith, Ark.	1		Portland, Oreg.	20	
Fort Wayne, Ind.	5		Pueblo, Colo.	2	
Fort Worth, Tex.	2		Quincy, Ill.	1	
Galesburg, Ill.	3		Racine, Wis.	1	
Greely, Colo.	1		Reno, Nev.	5	
Green Bay, Wis.	5		Roanoke, Va.	3	
Houston, Tex.	2		Rochester, N. Y.	1	
Huntington, Ind.	4		Rockford, Ill.	5	
Huntington, W. Va.	2		Rock Island, Ill.	1	
Independence, Mo.	4		Sacramento, Calif.	1	
Indianapolis, Ind.	15		Saginaw, Mich.	4	
Iowa City, Iowa.	2		St. Cloud, Minn.	2	
Jacksonville, Ill.	8		St. Joseph, Mo.	15	
Kansas City, Kans.	3		St. Louis, Mo.	4	
Kansas City, Mo.	8		St. Paul, Minn.	7	
Kenosha, Wis.	10		Salem, Oreg.	1	
Kewanee, Ill.	5		Salt Lake City, Utah.	27	
Knoxville, Tenn.	10		Sandusky, Ohio.	2	
Kokomo, Ind.	2		San Francisco, Calif.	4	
La Fayette, Ind.	1		Santa Cruz, Calif.	2	
Lawrence, Kans.	1		Seattle, Wash.	15	
Lima, Ohio.	1		Sioux City, Iowa.	3	
Lincoln, Nebr.	4		South Bend, Ind.	3	
Little Rock, Ark.	1		Spartanburg, S. C.	1	
Long Beach, Calif.	2		Steubenville, Ohio.	2	
Los Angeles, Calif.	15		Superior, Wis.	6	
Louisville, Ky.	2		Tacoma, Wash.	11	
Lynchburg, Va.	12		Topeka, Kans.	5	
Madison, Wis.	2		Walla Walla, Wash.	1	
Mankato, Minn.	1		Washington, D. C.	5	
Marion, Ind.	3		Wausau, Wis.	1	
Marion, Ohio.	4		Wichita, Kans.	21	
Marquette, Mich.	1		Yakima, Wash.	4	
Marshalltown, Iowa.	4				

## TETANUS.

## City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill.	1		Quincy, Mass.	1	
Dallas, Tex.	1		Richmond, Va.	1	
New Orleans, La.		1	Savannah, Ga.		1
New York, N. Y.	1				

## TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 1609, and Weekly reports from cities, p. 1635.

**TYPHOID FEVER.**  
**State Reports for May, 1920.**

Place.	New cases reported.	Place.	New cases reported.
<b>California:</b>		<b>Illinois—Continued.</b>	
Alameda County—		Crawford County—	
Berkeley.....	1	Robinson.....	1
Oakland.....	8	Cumberland County—	
Calaveras County—		Toledo.....	1
Angels Camp.....	1	Douglas County—	
Contra Costa County—		Murdock Township.....	6
Concord.....	1	Edwards County—	
Walnut Creek.....	2	Albion.....	1
Fresno County.....	1	Ford County—	
Imperial County.....	3	Paxton.....	1
El Centro.....	2	Franklin County—	
Kern County—		Benton.....	1
Taft.....	2	Cave Township.....	1
Los Angeles County.....	3	Grundy County—	
Glendora.....	1	Morris.....	1
Long Beach.....	2	Iroquois County—	
Los Angeles.....	11	Milford.....	1
Pasadena.....	1	Jackson County—	
Pomona.....	2	Murphysboro.....	1
Santa Monica.....	1	Jefferson County—	
Madera County—		Waltonville.....	1
Madera.....	1	McClellan Township.....	1
Monterey County—		Kankakee County—	
Monterey.....	1	St. Anne.....	1
Orange County.....	1	Knox County—	
Riverside County.....	1	Galesburg.....	1
Riverside.....	2	Lake County—	
Sacramento County—		Lake Forest.....	5
Sacramento.....	4	North Chicago.....	1
San Bernardino County.....	1	La Salle County—	
Needles.....	1	Mendota.....	1
Rialto.....	1	Oglesby.....	1
San Diego County—		Seneca.....	1
San Diego.....	1	Madison County—	
San Francisco County—		East Alton.....	1
San Francisco.....	4	Mercer County—	
San Joaquin County—		New Boston.....	7
Stockton.....	2	Morgan County—	
Santa Clara County—		Alexander Precinct.....	2
San Jose.....	1	Peoria County—	
Santa Cruz County—		Peoria.....	1
Santa Cruz.....	2	Perry County—	
Solano County—		South Western Precinct.....	2
Rio Vista.....	1	Rock Island County—	
Sonoma County.....	1	Moline.....	3
		Rock Island.....	1
<b>Total.....</b>	<b>67</b>	Watertown State Hospital.....	1
<b>Connecticut:</b>		Falline County—	
Fairfield County—		Galatia.....	1
Bridgeport.....	1	Fangamon County—	
Danbury.....	3	Springfield.....	2
Litchfield County—		St. Clair County—	
New Hartford.....	2	East St. Louis.....	1
Middlesex County—		Tazewell County—	
Westbrook.....	1	Mackinaw.....	1
New Haven County—		Union County—	
Meriden.....	3	Union Precinct.....	1
New Haven.....	4	Wayne County—	
Wallingford.....	4	Indian Prairie.....	1
Waterbury.....	1	Mount Erie.....	2
New London County—		White County—	
Norwich.....	1	Norris City.....	1
Preston.....	2	Whiteside County—	
		Sterling.....	1
<b>Total.....</b>	<b>22</b>	Williamson County—	
<b>Illinois:</b>		Marion.....	1
Christian County—		Winnebago County—	
Pana.....	1	Rockford.....	1
Clay County—			
Clay City.....	1	<b>Total.....</b>	<b>84</b>
Flora.....	2	<b>Indiana:</b>	
Pitkley Township.....	1	Boone County.....	1
Coles County—		Cass County.....	11
Mattoon.....	4	Daviess County.....	1
Cook County—		Delaware County.....	1
Chicago.....	14	Howard County.....	1
Glencoe.....	1	Lake County.....	53
West Hammond.....	1	Lawrence County.....	3

## TYPHOID FEVER—Continued.

## State Reports for May, 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>Indiana—Continued.</b>		<b>Mississippi—Continued.</b>	
Marion County.....	2	Lowndes County.....	1
Martin County.....	1	Madison County.....	1
Miami County.....	1	Marion County.....	3
Pike County.....	1	Newton County.....	1
Putnam County.....	1	Oktibbeah County.....	1
St. Joseph County.....	1	Panola County.....	3
Wabash County.....	1	Pearl River County.....	1
Wayne County.....	1	Pike County.....	1
Wells County.....	1	Pontotoc County.....	1
White County.....	2	Scott County.....	1
Whitley County.....	15	Simpson County.....	6
<b>Total.....</b>	<b>98</b>	Smith County.....	2
<b>Minnesota:</b>		Stone County.....	2
Chippewa County—		Sunflower County.....	6
Montevideo.....	1	Tallahatchie County.....	3
Clay County—		Tate County.....	1
Holy Cross Township.....	1	Tippah County.....	1
Crow Wing County—		Tishomingo County.....	3
Crosby.....	1	Tunica County.....	4
Deerwood Township.....	1	Walthall County.....	1
Hennepin County—		Warren County.....	1
Minneapolis.....	1	Washington County.....	1
Independence Township.....	1	Wayne County.....	1
Koochiching County—		Weber County.....	2
International Falls.....	1	Wilkinson County.....	6
Nicollet County—		Winston County.....	4
Lafayette Township.....	1	Yalobusha County.....	1
Olmsted County—		Yazoo County.....	3
Rochester.....	3	<b>Total.....</b>	<b>140</b>
Ottertail County—		<b>Montana:</b>	
Fergus Falls.....	1	Carbon County—	
Pennington County—		Silesia.....	1
St. Hilaire.....	3	Cascade County—	
St. Louis County—		Great Falls.....	1
Duluth.....	6	Gallatin County—	
Gilbert.....	1	Manhattan (R. D.).....	1
Wadena County—		Lewis and Clark County—	
Rockwood Township.....	1	Helena.....	1
Washington County—		Missoula County—	
Stillwater.....	1	Missoula.....	1
Wilkin County—		Silver Bow County—	
Breckenridge.....	1	Butte.....	1
Winona County—		Stillwater County—	
Winona.....	1	Columbus.....	1
<b>Total.....</b>	<b>26</b>	Treasure County—	
<b>Mississippi:</b>		Hysham (R. D.).....	1
Adams County.....	3	<b>Total.....</b>	<b>8</b>
Amite County.....	1	<b>New Jersey:</b>	
Attala County.....	1	Atlantic County.....	2
Calhoun County.....	1	Camden County.....	3
Chickasaw County.....	1	Cumberland County.....	1
Claiborne County.....	1	Essex County.....	6
Cosahoma County.....	3	Hudson County.....	1
Copiah County.....	2	Mercer County.....	2
De Soto County.....	2	Middlesex County.....	1
Forest County.....	1	Monmouth County.....	1
Franklin County.....	2	Morris County.....	2
Grenada County.....	3	Ocean County.....	8
Harrison County.....	3	Passaic County.....	5
Hinds County.....	5	Union County.....	11
Holmes County.....	2	<b>Total.....</b>	<b>43</b>
Jackson County.....	3	<b>North Carolina:</b>	
Jasper County.....	1	Alamance County.....	3
Jefferson County.....	2	Bertie County.....	2
Jefferson Davis County.....	2	Buncombe County.....	1
Jones County.....	6	Catawba County.....	2
Kemper County.....	10	Cleveland County.....	1
Lafayette County.....	4	Durham County.....	2
Lauderdale County.....	6	Edgecombe County.....	1
Lawrence County.....	1	Forsyth County.....	1
Leake County.....	2	Gaston County.....	1
Lee County.....	3		
Lincoln County.....	4		

TYPHOID FEVER—Continued.

State Reports for May, 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
<b>North Carolina—Continued.</b>		<b>Pennsylvania—Continued.</b>	
Gates County.....	2	Franklin County.....	1
Graham County.....	1	Greene County.....	1
Harnett County.....	4	Indiana County.....	8
Henderson County.....	1	Jefferson County.....	1
Johnston County.....	1	Lackawanna County.....	1
Lenoir County.....	1	Lancaster County.....	3
Madison County.....	1	Lawrence County.....	2
Mecklenburg County.....	2	Lycoming County.....	2
Northampton County.....	1	Mercer County.....	2
Onslow County.....	1	Montgomery County.....	12
Pitt County.....	5	Montour County.....	1
Randolph County.....	1	Northumberland County.....	1
Rockingham County.....	2	Perry County.....	1
Rowan County.....	1	Philadelphia County.....	35
Sampson County.....	6	Schuylkill County.....	1
Surry County.....	1	Venango County.....	2
Swain County.....	1	Washington County.....	8
Union County.....	3	Westmoreland County.....	1
Wake County.....	3	York County.....	2
Wayne County.....	2		
<b>Total.....</b>	<b>54</b>	<b>Total.....</b>	<b>151</b>
<b>North Dakota:</b>		<b>Rhode Island:</b>	
Pembina County.....	1	Providence.....	1
McKenzie County.....	1	North Providence (town).....	1
Rolette County.....	2	West Warwick (town).....	2
Richland County.....	1	<b>Total.....</b>	<b>4</b>
Burke County.....	1	<b>South Carolina:</b>	
Ramsey County—		Greenville County.....	1
Devils Lake.....	1	Kershaw County.....	1
<b>Total.....</b>	<b>7</b>	Marion County.....	1
<b>Oregon:</b>		Marlboro County.....	1
Portland.....	4	Richland County.....	2
<b>Pennsylvania:</b>		Sumter County.....	4
Adams County.....	8	<b>Total.....</b>	<b>10</b>
Allegheny County.....	12	<b>South Dakota:</b>	
Armstrong County.....	6	Davidson County.....	2
Beaver County.....	1	Marshall County.....	1
Bedford County.....	1	<b>Total.....</b>	<b>3</b>
Berks County.....	4	<b>Washington:</b>	
Blair County.....	6	Chelan County.....	3
Bradford County.....	6	King County—	
Bucks County.....	3	Kirkland.....	1
Butler County.....	1	Seattle.....	3
Cambria County.....	3	Skagit County.....	1
Carbon County.....	1	Snohomish County—	
Center County.....	1	Edmonds.....	2
Chester County.....	2	Spokane County—	
Columbia County.....	2	Spokane.....	3
Crawford County.....	2	<b>Total.....</b>	<b>13</b>
Delaware County.....	1		
Erie County.....	2		
Fayette County.....	4		

City Reports for Week Ended June 12, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alexandria, Va.....		1	Charleston, S. C.....	1	
Alliance, Ohio.....	1		Chicago, Ill.....	4	
Atlanta, Ga.....		1	Cleveland, Ohio.....	4	
Atlantic City, N. J.....	1		Coffeyville, Kans.....	1	
Baltimore, Md.....	3		Colorado Springs, Colo.....	1	
Bangor, Me.....	1		Columbia, S. C.....	1	
Birmingham, Ala.....	3		Dallas, Tex.....	3	
Boston, Mass.....	1		Denver, Colo.....	2	
Brunswick, Ga.....	1	1	Detroit, Mich.....	4	
Buffalo, N. Y.....	1	1	Dover, N. H.....	1	

## TYPHOID FEVER—Continued.

## City Reports for Week Ended June 12, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
El Paso, Tex.		2	Norwich, Conn.	1	1
Eugene, Oreg.	1		Oakland, Calif.	1	
Fall River, Mass.	2		Oklahoma City, Okla.		2
Flint, Mich.	1		Philadelphia, Pa.	9	1
Fremont, Ohio	3		Pittsburgh, Pa.	3	
Fresno, Calif.	1		Portland, Oreg.	1	
Galveston, Tex.	1		Providence, R. I.	1	
Grand Rapids, Mich.	1		Pueblo, Colo.	1	1
Houston, Tex.	7	2	Raleigh, N. C.		1
Independence, Mo.	1		Riverside, Calif.	1	
Indianapolis, Ind.	3		Rome, Ga.	4	
Kewanee, Ill.	3		Rome, N. Y.	4	
Knoxville, Tenn.	1	1	Sacramento, Calif.	4	
Lawrence, Mass.	2		Salem, Oreg.	1	
Lexington, Ky.	1		San Bernardino, Calif.		1
Lorain, Ohio.	1		Savannah, Ga.	4	
Louisville, Ky.	1		Seattle, Wash.	1	
Marquette, Mich.	1		Shenandoah, Pa.	3	
Martinsburg, W. Va.	1		Tacoma, Wash.	1	
Mattoon, Ill.	10		Terre Haute, Ind.		1
Memphis, Tenn.	1		Toledo, Ohio.	1	
Milwaukee, Wis.	1	1	Topeka, Kans.	1	
Minneapolis, Minn.	1		Trenton, N. J.	1	
Missoula, Mont.	1		Troy, N. Y.	1	1
Mobile, Ala.	1		Washington, D. C.	1	
Nashville, Tenn.	3		Watertown, N. Y.	2	
New Haven, Conn.	1		Wheeling, W. Va.	2	2
New Orleans, La.	1	1	Wichita, Kans.	1	
Newton, Mass.	1		Wilmington, Del.	1	
New York, N. Y.	9	1	Wilmington, N. C.	1	
Norfolk, Va.	3		Winston-Salem, N. C.	3	
Norristown, Pa.	2		York, Pa.	1	

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

## City Reports for Week Ended June 12, 1920.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak.	15,926	3			1		3			
Aberdeen, Wash.	21,392				6					
Adams, Mass.	14,406	0								
Akron, Ohio	93,604	40	1		18		8		2	5
Alameda, Calif.	28,433	3	1						1	5
Albany, N. Y.	106,632				36		3			
Alexandria, La.	16,232	1	5		1					
Alexandria, Va.	17,959	4								
Allentown, Pa.	65,109		1		6				5	
Alliance, Ohio.	19,581	8			1		5			
Alton, Ill.	23,783	6			15	1	1			1
Altoona, Pa.	59,712		1				1			
Amesbury, Mass.	10,200	1			2					
Anaconda, Mont.	10,631	0			3					
Ann Arbor, Mich.	15,041	10	1		4				1	
Anniston, Ala.	14,326		1						1	
Ansonia, Conn.	16,954	0								
Appleton, Wis.	18,005				19		2			
Arrington, Mass.	13,073	8	1		4		3		1	2
Asbury Park, N. J.	14,629	2	1		11					
Ashland, Wis.	11,594				1					
Ashtabula, Ohio.	22,008	3			2					
Atlanta, Ga.	193,144	66	2		22	1	1		1	3
Atlantic City, N. J.	59,515	12	1		3				1	1
Attleboro, Mass.	19,776	6			23				1	
Auburn, Me.	16,607						1			
Auburn, N. Y.	37,823	12	2		43				2	3

1 Population Apr. 15, 1910.

DIPHThERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—  
Continued.

City Reports for Week Ended June 12, 1920—Continued.

City.	Popula- tion as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tubercu- losis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aurora, Ill.	34,795	10			14		7			
Baltimore, Md.	594,637	156	14	1	175	3	27	1	32	17
Bangor, Me.	26,958				11					
Barberton, Ohio	14,187	3					1			
Barre, Vt.	12,401				4					
Battle Creek, Mich.	30,159				21		19			
Bayonne, N. J.	72,204		1		70				1	
Beaumont, Tex.	28,851	17								1
Beaver Falls, Pa.	13,749				4					
Bedford, Ind.	10,613	1								
Belleville, N. J.	12,797						3			
Bellingham, Wash.	34,362				2					
Beloit, Wis.	18,547				56		2		2	
Benton Harbor, Mich.	11,099	1								
Berkeley, Calif.	60,427	6					2		1	
Berlin, N. H.	13,892	4								1
Bethlehem, Pa.	14,353				14					
Beverly, Mass.	22,128	12								
Billings, Mont.	15,123	7			4				1	
Binghamton, N. Y.	54,964	22			1		2			2
Birmingham, Ala.	189,716	44	3	1	7		7		6	4
Bloomfield, N. J.	19,013	3			22					
Bloomington, Ill.	27,462	10	1				1		5	1
Bloomington, Ind.	11,661	2	1				1			
Boise, Idaho.	35,951	5			6		2			
Boston, Mass.	767,813	199	29	1	189		32		78	19
Bradnock, Pa.	22,060		2		3		1		1	
Bradford, Pa.	14,544				6		1			
Brazil, Ind.	10,472	0							1	
Bridgeport, Conn.	124,724	35	3	1					4	2
Brockton, Mass.	69,152	15	4	1			6			
Brookline, Mass.	33,526	7					1			
Brunswick, Ga.	10,984	3			62		2		4	
Buffalo, N. Y.	475,781	120	55	2	268	2	14	1	37	6
Burlington, Iowa.	25,144				4		4			
Burlington, Vt.	21,902	4					1		1	1
Butler, Pa.	28,677				14					
Butte, Mont.	44,057	9			4				1	1
Cadillac, Mich.	10,158	5								
Cairo, Ill.	15,995	4								
Cambridge, Mass.	114,293	27	5		58	1	2		7	3
Canton, Ill.	13,674	3								
Canton, Ohio.	62,566	13	1		20	1	4			2
Cape Girardeau, Mo.	11,146	2	1		3					1
Carbondale, Pa.	19,597		1							
Carlisle, Pa.	10,795				8					
Carnegie, Pa.	11,963		2				21			
Cedar Rapids, Iowa.	39,033						2			
Centralia, Ill.	11,838	3			1		1			
Charleston, S. C.	61,011	28	1							4
Charleston, W. Va.	31,060		1		1					
Charlotte, N. C.	40,759	12			1					
Chelsea, Mass.	46,405	14	5		31				1	
Chester, Pa.	41,857				26		1		5	1
Chicago, Ill.	2,547,201	596	69	11	370	3	127	4	228	63
Chicopee, Mass.	29,950	8								
Chillicothe, Ohio.	15,625	7			1				1	1
Cincinnati, Ohio.	414,248	98	8		46		30	1	23	11
Cleveland, Ohio.	692,259	172	14	1	49	2	21	1	38	22
Clinton, Mass.	113,075	7			1		1			1
Coatesville, Pa.	14,998		1		12					
Coffeyville, Kans.	15,331	4	1		2				1	
Cohoes, N. Y.	25,292	3								
Colorado Springs, Colo.	38,965	12			9				8	1
Columbia, Pa.	11,454		1		2					
Columbia, S. C.	35,165								1	
Columbus, Ohio.	220,135	69	1	1	26		3		4	5
Concord, N. H.	22,858	10			38					
Connellsville, Pa.	15,876				3					
Corpus Christi, Tex.	10,789	7							1	1

1 Population Apr. 15, 1910.

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

City Reports for Week Ended June 12, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Council Bluffs, Iowa.....	31,838	7			1		2			
Covington, Ky.....	59,623	14	2		2		1		1	2
Cranston, R. I.....	26,773	3								
Cumberland, Md.....	26,686	11							2	
Dallas, Tex.....	129,738	47	4		32				5	3
Danbury, Conn.....	22,931	9								
Danville, Ill.....	32,969	11			2					2
Davenport, Iowa.....	49,618				3				3	
Dayton, Ohio.....	128,939	37	6				4			
Decatur, Ill.....	41,483	10			1		1		2	
Dedham, Mass.....	10,618									
Denver, Colo.....	268,439	63	5		137		3			13
Des Moines, Iowa.....	104,052	1			2		1			
Detroit, Mich.....	619,648	213	87	5	82	3	61		62	15
Dover, N. H.....	13,276	4			14		1			
Du Bois, Pa.....	14,994		1		1		2			
Dubuque, Iowa.....	40,096				19					
Duluth, Minn.....	97,077	18	1		4		9		3	
Dunmore, Pa.....	21,286				2					
Durham, N. C.....	26,160	4					1			2
East Chicago, Ind.....	30,286	8		1						
East Cleveland, Ohio.....	13,864		1							
Easthampton, Mass.....	10,656				9				1	
Easton, Pa.....	30,854		3		31					
East Orange, N. J.....	43,761	8	2		74					
East Providence, R. I.....	18,485						1			
East St. Louis, Ill.....	77,312	14	2		1		2		1	
Eau Claire, Wis.....	18,887		1		4		4		2	
Elgin, Ill.....	28,562	5			31		1		1	
Elizabeth, N. J.....	88,830		1		24		2		7	
Elkhart, Ind.....	22,273	6	1		2		6			1
Elmira, N. Y.....	38,272	12			19		1		1	
El Paso, Tex.....	69,149	48			6		2			9
Elwood, Ind.....	11,028	1								1
Englewood, N. J.....	12,603	2			1		2		1	
Erie, Pa.....	76,592		1		14		4			
Eugene, Oreg.....	14,357	3								
Eureka, Calif.....	15,142	2			1				2	1
Evanson, Ill.....	29,301	16	1		2		2			
Everett, Mass.....	40,160	7	3		7		1		1	
Everett, Wash.....	37,205				52					
Fairmount, W. Va.....	16,111		1				1			
Fall River, Mass.....	129,828	30	3		7				2	3
Fargo, N. Dak.....	17,872	6	1		4		1			
Farrell, Pa.....	10,190				3					
Findlay, Ohio.....	14,858	5			16		1			
Flint, Mich.....	57,386	19	5				4			
Fond du Lac, Wis.....	21,486				9		2			
Fort Scott, Kans.....	10,564	0			2					
Fort Smith, Ark.....	29,390		1		4		2			
Fort Wayne, Ind.....	78,014	24	1		65		6	1	12	
Fort Worth, Tex.....	109,597	10	2				3		2	
Fostoria, Ohio.....	10,959	2			2					
Framingham, Mass.....	14,149	8	2		24		3		1	
Fremont, Nebr.....	16,080	2								
Fremont, Ohio.....	11,034				5		6			
Fresno, Calif.....	37,314	6			2					2
Galesburg, Ill.....	24,629	6								
Galveston, Tex.....	42,650	13								
Gardner, Mass.....	17,534	4			9				2	1
Gary, Ind.....	59,000				3					
Glens Falls, N. Y.....	17,100	6					1		3	
Gloucester City, N. J.....	11,375				5					
Grand Rapids, Mich.....	132,861	40	7		75		2		2	1
Great Falls, Mont.....	15,948	6	1				3		1	
Greely, Colo.....	11,942	4			2		1			
Green Bay, Wis.....	30,017		1		3		1			
Greenfield, Mass.....	12,251	2	4		40					
Greensboro, N. C.....	20,171	5								
Greensburg, Pa.....	13,881						2			
Greenwich, Conn.....	19,594	3	2							

1 Population Apr. 15, 1910.

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

City Reports for Week Ended June 22, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Hackensack, N. J.	17,412	8	1		21		1			
Hammond, Ind.	27,016	6	3		2		2			2
Harrisburg, Pa.	73,276		1		7					
Harrison, N. J.	17,345				6					
Hartford, Conn.	112,831	35			27		1	1		
Haverhill, Mass.	49,180	14	4		47				1	2
Hazleton, Pa.	23,981		1		3		3			
Hoboken, N. J.	78,324	9			5		2		3	1
Holyoke, Mass.	66,503	21			10		1		1	2
Houston, Tex.	116,878	42	5		5				4	4
Huntington, Ind.	10,852	4	2		6		1			1
Huntington, W. Va.	47,686	11	1				3			2
Independence, Mo.	11,964	5	1						1	1
Indianapolis, Ind.	283,622	73	3		197		16		5	6
Iowa City, Iowa	11,626				2		1			
Ironton, Ohio	14,079	4			10				1	1
Ironwood, Mich.	15,066	6			8				1	1
Irvington, N. J.	16,710				12		1		2	
Ishpeming, Mich.	12,448	1	2							
Ithaca, N. Y.	16,017	4			3				1	
Jacksonville, Ill.	15,506	8								1
Jamestown, N. Y.	37,431	10			22				1	
Janesville, Wis.	14,411				7		1			
Jefferson City, Mo.	13,712	3								
Jersey City, N. J.	312,557	18			27		2		9	
Johnstown, Pa.	70,437	2			1				1	
Joplin, Mo.	33,400				4					
Kalamazoo, Mich.	50,498	19	1		54		10		2	2
Kankakee, Ill.	14,270	5			3		1			
Kansas City, Kans.	102,096		4		32				7	
Kansas City, Mo.	305,816	85	5	1	7		2		11	10
Kearny, N. J.	24,325	6			30			1	1	
Keene, N. H.	10,725	9	1	1	2		6		17	
Kenosha, Wis.	32,533		1		15					
Kewanee, Ill.	13,607	6								
Knorrville, Tenn.	59,112				2		3			
Kokomo, Ind.	21,929	8		1	3		5			1
Lockawanna, N. Y.	16,219	2			6		8			
La Crosse, Wis.	31,833				9		1		4	
La Fayette, Ind.	21,481	4			4		3			
Lake Charles, La.	14,930	3			1					
Lancaster, Ohio	16,068	6								
Lancaster, Pa.	51,437						11			
La Salle, Ill.	12,332	3	6		28		1		4	1
Lawrence, Kans.	13,477	3			8				1	
Lawrence, Mass.	102,923	18	2		77		1	2	2	1
Leavenworth, Kans.	119,363	6							2	1
Lebanon, Pa.	20,947						1			
Leominster, Mass.	21,365	4								
Lexington, Ky.	41,997	14			6				4	
Lima, Ohio	37,145	8	1		11		2		1	4
Lincoln, Nebr.	46,957	13	1				1		1	
Little Rock, Ark.	58,716				3		1		2	
Lockport, N. Y.	20,028				1		1		1	
Logansport, Ind.	21,338	4								
Long Beach, Calif.	29,163	10	1		18		1			
Long Branch, N. J.	15,733	0			2					
Lorain, Ohio	33,266				2		2			
Los Angeles, Calif.	535,485	170	36		123		6		73	24
Louisville, Ky.	240,808	77	2		38	1	2		13	1
Lowell, Mass.	114,366	22			52	1	2		6	1
Lynchburg, Va.	33,497	10			40		1			
Lynn, Mass.	104,534	11	11		5		4		6	2
McKeesport, Pa.	48,299				1		1		3	
Macon, Ga.	46,009				6		2			
Madison, Wis.	31,315				7		2			
Malden, Mass.	52,243	17	4	2	29		2		1	1
Manchester, Conn.	15,859	0			4				1	
Manchester, N. H.	79,607	17	2		47		2	1	2	2
Manitowoc, Wis.	13,931						4			
Mankato, Minn.	10,365	6			2					

<sup>1</sup> Population Apr. 15, 1910.



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

City Reports for Week Ended June 12, 1920—Continued.

City.	Population as of July 1, 1917 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Marinette, Wis.	14,610	.....	1	.....	3	.....	1	.....	.....	.....
Marion, Ind.	19,923	3	.....	.....	1	.....	.....	.....	.....	.....
Marion, Ohio	24,129	.....	.....	.....	1	.....	.....	.....	1	.....
Marlboro, Mass.	15,285	3	.....	.....	.....	.....	5	.....	1	.....
Marquette, Mich.	12,565	5	.....	.....	22	.....	.....	.....	.....	.....
Marshalltown, Iowa.	14,519	6	.....	.....	1	.....	1	.....	.....	.....
Martinsburg, W. Va.	12,984	.....	.....	.....	2	.....	2	.....	.....	.....
Martins Ferry, Ohio.	10,135	14	.....	.....	.....	.....	.....	.....	.....	.....
Medford, Mass.	26,681	11	.....	.....	16	.....	.....	.....	1	2
Melrose, Mass.	17,724	4	.....	.....	10	.....	.....	.....	1	.....
Memphis, Tenn.	151,877	69	2	.....	.....	.....	6	.....	15	7
Meriden, Conn.	29,431	.....	3	.....	1	.....	1	.....	3	1
Methuen, Mass.	14,320	4	1	.....	18	.....	1	.....	2	.....
Middletown, N. Y.	15,890	1	1	.....	.....	.....	.....	.....	.....	.....
Middletown, Ohio.	16,384	8	.....	.....	2	.....	3	.....	3	3
Milwaukee, Wis.	445,008	100	13	1	426	.....	22	1	27	.....
Minneapolis, Minn.	373,448	99	12	1	76	.....	10	.....	39	8
Mishawaka, Ind.	17,083	3	.....	.....	1	.....	2	.....	.....	.....
Missoula, Mont.	19,075	3	.....	.....	10	.....	.....	.....	1	.....
Mobile, Ala.	59,201	19	.....	.....	.....	.....	1	.....	.....	2
Monmouth, Ill.	10,346	3	.....	.....	.....	.....	1	.....	.....	.....
Montclair, N. J.	27,087	3	.....	.....	8	.....	1	.....	2	1
Montgomery, Ala.	44,039	18	.....	.....	.....	.....	1	.....	.....	3
Morgantown, W. Va.	14,444	4	1	.....	6	.....	.....	.....	.....	.....
Morristown, N. J.	13,410	4	.....	.....	2	.....	.....	.....	.....	.....
Moundsville, W. Va.	11,513	2	.....	.....	.....	.....	.....	.....	.....	.....
Mount Carmel, Pa.	20,709	.....	.....	.....	.....	.....	.....	.....	2	.....
Mount Vernon, Ill.	10,043	10	.....	.....	10	.....	.....	.....	.....	.....
Muncie, Ind.	25,653	17	.....	.....	.....	.....	3	.....	.....	1
Muscatine, Iowa	17,713	6	.....	.....	1	.....	.....	.....	.....	.....
Nanticoke, Pa.	23,811	.....	.....	.....	1	.....	.....	.....	.....	.....
Nashua, N. H.	27,541	10	.....	.....	71	.....	1	.....	3	1
Nashville, Tenn.	118,136	43	.....	.....	27	.....	1	.....	6	5
New Bedford, Mass.	121,622	29	2	.....	1	.....	6	.....	9	1
New Britain, Conn.	55,385	18	2	.....	5	.....	7	1	.....	1
New Brunswick, N. J.	25,855	.....	2	.....	.....	.....	.....	.....	.....	.....
Newburyport, Mass.	15,291	5	.....	.....	14	.....	.....	.....	2	1
New Castle, Pa.	41,915	.....	.....	.....	2	.....	3	.....	.....	.....
New Haven, Conn.	152,275	30	7	.....	22	.....	10	.....	13	2
New Orleans, La.	377,010	108	2	.....	6	.....	1	.....	22	19
New Philadelphia, Ohio.	10,133	.....	.....	.....	2	.....	.....	.....	.....	.....
Newport, R. I.	30,585	4	.....	.....	12	.....	5	.....	.....	1
Newton, Mass.	44,343	9	7	.....	85	.....	.....	.....	2	2
New York, N. Y.	5,737,492	1,129	284	18	476	12	113	5	260	115
Niagara Falls, N. Y.	39,466	14	.....	.....	1	.....	4	.....	3	.....
Norfolk, Va.	91,148	.....	1	.....	18	.....	1	.....	.....	4
Norristown, Pa.	31,969	.....	1	.....	4	.....	.....	.....	3	.....
North Adams, Mass.	122,019	7	.....	.....	12	.....	.....	.....	1	1
Northampton, Mass.	20,006	11	3	.....	7	.....	.....	.....	1	.....
North Attleboro, Mass.	11,248	2	.....	.....	.....	.....	.....	.....	.....	.....
North Braddock, Pa.	15,684	.....	1	.....	1	.....	.....	.....	.....	.....
North Little Rock, Ark.	15,515	.....	.....	.....	.....	.....	1	.....	.....	.....
North Tonawanda, N. Y.	14,060	5	1	.....	.....	.....	.....	.....	1	.....
Norwalk, Conn.	27,332	10	.....	.....	.....	.....	.....	.....	.....	.....
Norwich, Conn.	21,923	8	.....	.....	5	1	.....	.....	.....	.....
Norwood, Ohio.	23,299	3	.....	.....	1	.....	.....	.....	.....	.....
Oakland, Calif.	206,405	31	2	.....	.....	.....	15	.....	6	.....
Oak Park, Ill.	27,816	11	.....	.....	9	.....	.....	.....	2	.....
Ogdensburg, N. Y.	16,845	12	.....	.....	.....	.....	.....	.....	.....	.....
Oil City, Pa.	20,162	.....	.....	.....	3	.....	1	.....	.....	.....
Oklahoma City, Okla.	97,588	25	1	.....	3	.....	.....	.....	.....	3
Olean, N. Y.	16,927	9	.....	.....	.....	.....	.....	.....	.....	1
Omaha, Nebr.	177,777	49	.....	.....	47	1	9	.....	1	3
Orange, N. J.	33,636	8	4	1	7	.....	2	.....	.....	.....
Oshkosh, Wis.	36,549	.....	.....	.....	3	.....	1	.....	.....	.....
Paducah, Ky.	25,178	.....	5	.....	3	.....	1	.....	.....	.....
Parkersburg, W. Va.	21,059	3	1	.....	1	.....	.....	.....	.....	.....
Pasadena, Calif.	49,620	13	.....	.....	27	.....	.....	.....	2	3
Passaic, N. J.	74,478	12	3	.....	20	.....	.....	.....	.....	.....
Paterson, N. J.	140,512	4	2	.....	85	.....	1	.....	.....	.....

1 Population Apr. 15, 1910.

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

City Reports for Week Ended June 12, 1920—Continued.

City.	Popula- tion as of July 1, 1917 (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.
Pawtucket, R. I.	60,666	13								
Peekskill, N. Y.	19,034	7								
Pekin, Ill.	10,973									
Peoria, Ill.	72,184	25	1							
Perth Amboy, N. J.	42,646	3			31		1			
Petersburg, Va.	25,817	8			18		5			
Philadelphia, Pa.	1,735,514	442	50	10	330	5	43	2	6	3
Phillipsburg, N. J.	15,879	8			9		3		3	1
Piqua, Ohio.	14,275	5								
Pittsburgh, Pa.	586,196		15		543		27		19	
Pittsfield, Mass.	39,678	8			1		1		2	
Pittston, Pa.	18,975				1					
Plainfield, N. J.	24,330	5	4	1	8		1		4	
Plymouth, Mass.	14,001	6					2			
Plymouth, Pa.	19,439								1	
Pontiac, Mich.	18,006	18			4		1		5	2
Port Chester, N. Y.	16,727	0								
Port Huron, Mich.	18,863	8	2							
Portland, Me.	64,720	17	1		22					1
Portland, Oreg.	308,399	62	6		106	2	5	1	8	4
Portsmouth, N. H.	11,730		1		25					
Pottstown, Pa.	16,987		1		7					
Pottsville, Pa.	22,717		2							
Poughkeepsie, N. Y.	30,786	10	1		24		4			2
Providence, R. I.	259,895	57	8		37		3			1
Pueblo, Colo.	56,084				44					1
Quincy, Ill.	36,832	8								
Quincy, Mass.	39,022	5	4		15		4			
Racine, Wis.	47,465				17		8		4	
Rahway, N. J.	10,361	3								
Raleigh, N. C.	20,274	13			15		1			
Reading, Pa.	111,607		6						3	
Redlands, Calif.	14,573	0								
Reno, Nev.	15,514	1			2					
Richmond, Ind.	25,080	5								
Richmond, Va.	158,702	60			127		1		9	5
Riverside, Calif.	20,496	4	1		1					1
Roanoke, Va.	46,282	19			1					
Rochester, N. Y.	264,714	65	11		35	1	12		6	5
Rockford, Ill.	56,739	11			6		8			2
Rock Island, Ill.	29,452	7			11		1		9	1
Rocky Mount, N. C.	12,673	3					1			
Rome, Ga.	15,607		1							
Rome, N. Y.	24,259								2	
Rutland, Vt.	15,038	2			24		2			
Sacramento, Calif.	68,984	19	1		10				1	
Saginaw, Mich.	56,469	25	3				1			
St. Cloud, Minn.	12,013		2		1				1	
St. Joseph, Mo.	86,498	37	1		6					2
St. Louis, Mo.	768,650	200	63	5	94	2	10	1	42	11
St. Paul, Minn.	252,465	58	3	1	47		3		20	5
Salem, Mass.	49,346	10	5		18		3			1
Salem, Oreg.	21,274	7								1
Salt Lake City, Utah.	121,623	34	1		21		2		2	2
San Bernardino, Calif.	17,616	6								1
San Diego, Calif.	56,412	19	1	1	2				1	1
Sandusky, Ohio.	20,226	1			6				1	
San Francisco, Calif.	471,023	102	8	2	6		6		25	7
Santa Barbara, Calif.	15,360	10	2							
Santa Cruz, Calif.	15,150	6	7		4					
Saratoga Springs, N. Y.	13,839	6								
Sault Ste. Marie, Mich.	14,130	7							1	1
Savannah, Ga.	69,250	32			1	1			1	3
Schenectady, N. Y.	108,774	15			93				4	3
Scranton, Pa.	149,541		2		31		3			
Seattle, Wash.	366,445		7		49		18		5	
Shamokin, Pa.	21,274		2							
Sharon, Pa.	19,156		1		21					
Sheboygan, Wis.	23,907				18		2			
Shenandoah, Pa.	29,753				1					

<sup>1</sup> Population Apr. 15, 1910.

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

City Reports for Week Ended June 12, 1923—Continued.

City.	Popula- tion as of July 1, 1917 (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.
Sioux City, Iowa.....	58,568						2			
Sioux Falls, S. Dak.....	16,837	5			2		2			
Somerville, Mass.....	88,618	9	3	1	20		8		4	1
South Bend, Ind.....	70,967	15	1		4		2		2	
Southbridge, Mass.....	14,465	1								
Spartanburg, S. C.....	21,985	7								1
Springfield, Ill.....	62,623	19			23					
Springfield, Mass.....	108,688	31			50		10		5	1
Springfield, Mo.....	41,169	11				1				
Springfield, Ohio.....	52,296	19			33		6	1	2	
Staunton, Va.....	11,823	10								2
Steelton, Pa.....	15,759				1				1	
Steubenville, Ohio.....	28,259	11	1				1			
Stillwater, Minn.....	10,196	1	1							
Stockton, Calif.....	38,209	7	3		2					
Superior, Wis.....	47,167	7								
Syracuse, N. Y.....	158,559	45	7		216		6		4	2
Tacoma, Wash.....	117,446	4	4		36		1			
Taunton, Mass.....	36,610	9	3				2			
Terre Haute, Ind.....	67,361	35	1		13	1	8		2	1
Toledo, Ohio.....	202,010	61	7		9		6		3	11
Topeka, Kans.....	49,538	10	1		37		1		1	1
Traverse City, Mich.....	14,080	4			1				7	1
Trenton, N. J.....	113,974	25	4		1				6	6
Troy, N. Y.....	78,094	19	1		2		1		1	4
Tucson, Ariz.....	17,324	18								
Tuscaloosa, Ala.....	10,824						1		1	
Uniontown, Pa.....	21,600				4					
Vallejo, Calif.....	13,803	1	2							
Vancouver, Wash.....	13,805		1				3			
Virginia, Minn.....	15,954				1					
Waco, Tex.....	34,015	11								2
Walla Walla, Wash.....	26,067				2		3			
Waltham, Mass.....	31,011	4	11		29		2		1	1
Washington, D. C.....	369,282	125	9	1	16		14		28	14
Washington, Pa.....	22,076				6					
Waterbury, Conn.....	89,301		1		5		14		7	2
Watertown, Mass.....	15,188	2	3		11		1			
Watertown, N. Y.....	30,404	1	1		2					
Wausau, Wis.....	19,666	6			3		4			
West Chester, Pa.....	13,403				10					
Westfield, Mass.....	18,769	4			1					
West Hoboken, N. J.....	44,396	3	1		7		1		2	
West New York, N. J.....	19,613	5			4					3
West Orange, N. J.....	13,964	3	1		30					
Wheeling, W. Va.....	43,657	22	1		15				1	4
Wichita, Kans.....	73,597	25	2		5		5			2
Wilkes-Barre, Pa.....	76,334		4		4		6		6	
Wilkesburg, Pa.....	23,890				16					
Williamsport, Pa.....	34,123		1		10					
Wilmington, Del.....	95,369	26			12		5	1		3
Wilmington, N. C.....	30,400		1							
Winchester, Mass.....	10,812	2			19					
Winona, Minn.....	18,583	3	1		1		2			
Winston-Salem, N. C.....	33,136	14	1		10					3
Winthrop, Mass.....	13,105	1	1		12					
Woburn, Mass.....	16,076	4								1
Worcester, Mass.....	166,106	46	2	1	10		13		8	3
Yakima, Wash.....	22,058				3					
Yonkers, N. Y.....	103,066	18	4		28		8			1
York, Pa.....	52,770		2		3					
Zanesville, Ohio.....	31,320	10			2		2			

## FOREIGN AND INSULAR.

### YELLOW FEVER ON VESSEL.

#### Steamship "Huallaga"—Callao, Peru.

A case of yellow fever was reported at Callao quarantine station, Peru, during the month of April, 1920. The case was removed from the steamship *Huallaga*. The *Huallaga* sailed for Balboa, arriving May 23, and thence for Norfolk, arriving June 4, 1920.

### CHINA.

#### Relapsing Fever—Hankow.

Two cases of relapsing fever were reported at Hankow, China, during the week ended May 22, 1920.

### CUBA.

#### Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

Disease.	June 1-10, 1920.		Remain- ing under treatment June 10, 1920.
	New cases.	Deaths.	
Cerebrospinal meningitis.....			13
Chicken pox.....	2		6
Diphtheria.....	5		5
Leprosy.....			10
Malaria.....	11		15
Measles.....	42	4	58
Scarlet fever.....	7	1	7
Typhoid fever.....	24	5	61

<sup>1</sup> From abroad, 3.

<sup>2</sup> From the interior, 7.

<sup>3</sup> From the interior, 28.

#### Measures to Prevent Importation of Plague.

Quarantine measures to prevent importation of plague were ordered, under date of June 16, 1920, to be put in force at Cuban ports against arrivals from Pensacola, Fla., and Tampico, Mexico.

### HONDURAS.

#### Cerebrospinal Meningitis—Tegucigalpa.

Epidemic cerebrospinal meningitis was reported present at Tegucigalpa, Honduras, May 29, 1920, with especial prevalence in the penitentiary and military barracks.

**MEXICO.****Yellow Fever—Vera Cruz.**

Two fatal cases of yellow fever were notified at Vera Cruz, Mexico, June 22, 1920.

**NEW ZEALAND.****Influenza—Auckland—Dunedin.**

During the three weeks ended May 8, 1920, influenza was reported present at Auckland, New Zealand, with many cases. During the period March 31 to May 3, 1920, at Dunedin, 583 cases were notified. The number of cases previously notified at Dunedin during the current year was: In January, 16 cases; from February 1 to March 29, 1,851 cases. (Population according to census October, 1916, 68,716.)

**PERU.****Plague—Yellow Fever—March-April, 1920.**

During the months of March and April, 1920, prevalence of plague and yellow fever was reported in Peru as follows:

*Plague.*—Month of March, 46 cases occurring in 15 localities, the largest number of cases, viz, 13, being notified at Mollendo; month of April, 1920, 36 cases at 11 localities, with the largest number of cases, viz, 9, reported at Callao.

*Yellow fever.*—Month of March, 1920, 128 cases, distributed in seven localities, with the greatest number, viz, 81, reported at Paita; month of April, 1920, 64 cases notified at seven localities, the largest number of cases, viz, 37, being reported at Morropon. One case was reported taken from the steamship *Huallaga* at Callao quarantine station.

**SALVADOR.****Further Relative to Yellow Fever—Sonsonate.<sup>1</sup>**

Further reports relative to the occurrence of yellow fever at Sonsonate, Republic of Salvador, show that from May 22 to June 9, 1920, five cases of yellow fever, with two fatalities, were notified.

**SAMOA.****Quarantine Measures—Western Samoa.**

According to information received under date of April 1, 1920, quarantine measures have been ordered to be put in force in Western Samoa. The requirements relate to medical inspection of all persons on board arriving vessels, declaration by the master and medical officer of such ships of any case of sickness on board or which may

<sup>1</sup> Public Health Reports, June 4, 1920, p. 1369.

have occurred on board one month previous to arrival, and disinfection and preventive treatment against the outbreak and spread of infectious disease.

Every vessel arriving in Samoan waters from beyond seas or having on board a person from beyond seas is to be considered in quarantine until clearance has been authorized.

The following-named diseases have been declared infectious: Typhus fever, scarlet fever, yellow fever, measles, German measles, mumps, whooping cough, smallpox, diphtheria, plague, influenza, acute primary pneumonia, cerebrospinal meningitis, infantile paralysis, and any other disease which is officially declared to be infectious within the meaning of this order.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.**

**Reports Received During Week Ended July 2, 1920.<sup>1</sup>**

**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Apr. 11-17, 1920: Deaths, 1,197.
Calcutta.....	May 2-15.....	137	132	
Rangoon.....	May 2-8.....	3	2	
Philippine Islands:				May 9-15, 1920: Cases, 3; deaths, 2.
Manila.....	May 9-15.....	1	1	
Provinces.....				
Albay.....	May 9-15.....	2	1	
Cagayan.....	do.....	1	1	

**PLAGUE.**

Ceylon:				
Colombo.....	May 2-8.....	1	1	
Chile:				
Antofagasta.....	May 17-23.....	1		
India.....				Apr. 18-May 1, 1920: Cases, 5,215; deaths, 4,236.
Bombay.....	Apr. 18-24.....	26	22	
Calcutta.....	May 2-15.....	3	3	
Karachi.....	May 9-15.....	18	18	
Madras Presidency.....	do.....	2	4	
Rangoon.....	Apr. 25-May 8.....	35	30	
Java:				Apr. 15-21, 1920: Cases, 4; deaths, 3. Surabaya Residency.
East Java.....				
Peru.....				Mar. 1-31, 1920: Cases, 46; deaths, 29. Apr. 1-30, 1920: Cases, 36; deaths, 13. In coastal departments.
Callao.....	Mar. 1-31.....	6	3	
Do.....	Apr. 1-30.....	9	4	
Lima city.....	Mar. 1-31.....	5	3	
Do.....	Apr. 1-30.....	4	4	
Lima (country).....	Mar. 1-31.....	1	1	
Do.....	Apr. 1-30.....	1		
Mollendo.....	Mar. 1-31.....	13	9	
Paita.....	do.....	5	2	
Do.....	Apr. 1-30.....	2		
Salaverry.....	Mar. 1-31.....	4	3	
Do.....	Apr. 1-30.....	1		
San Pedro.....	do.....	6	1	
Trujillo.....	Mar. 1-31.....	5	2	
Do.....	Apr. 1-30.....	5	1	
Straits Settlements:				
Singapore.....	Apr. 25-May 1.....	4	4	

<sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources. For reports received from Dec. 27, 1919, to June 25, 1920, see Public Health Reports for June 25, 1920. The tables of epidemic diseases are terminated semiannually and new tables begun.

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

## Reports Received During Week Ended July 2, 1920—Continued.

### SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Algeria:</b>				
Departments—				
Algiers.....	May 11-20.....	7		Data for departments of Constantine and South Territories not available.
Oran.....	do.....	15		
<b>Brazil:</b>				
Pernambuco.....	Mar. 29-Apr. 11.....	23		
Rio de Janeiro.....	May 9-22.....	3	1	
<b>Canada:</b>				
Alberta—				
Calgary.....	June 3-9.....	1		
Manitoba—				
Winnipeg.....	May 29-June 5.....	3		
New Brunswick—				
Gloucester.....	May 31-June 5.....	1		
Nova Scotia—				
Sydney.....	do.....	2		
Ontario—				
Hamilton.....	June 13-19.....	2		
Ottawa.....	June 6-12.....	6		
Peterborough.....	Apr. 18-June 12.....	26		
Toronto.....	June 6-12.....	6		
<b>Chile:</b>				
Antofagasta.....	May 17-23.....			One case in interior.
<b>China:</b>				
Amoy.....	May 2-8.....		1	
Antung.....	May 9-16.....	2	2	
Chungking.....	May 2-15.....			Present.
Foochow.....	May 9-15.....			Do.
Nankin.....	May 9-22.....			Do.
Tsinanfu.....	May 9-15.....	1		
<b>Colombia:</b>				
Barranquilla.....	May 16-29.....			Do.
Santa Marta.....	May 31-June 5.....			Do.
<b>Egypt:</b>				
Alexandria.....	May 14-27.....	26	10	
Cairo.....	Apr. 2-8.....	4	2	
Port Said.....	do.....	6	1	
<b>France:</b>				
Brest.....	May 15-21.....	1		
<b>Great Britain:</b>				
Glasgow.....	May 25-June 5.....	66	9	
<b>India:</b>				
Bombay.....	Apr. 18-24.....	32	12	Apr. 11-17, 1920: Deaths, 1,600.
Calcutta.....	May 2-15.....	82	74	
Karachi.....	May 9-15.....	3	2	
Madras.....	do.....	5	3	
Rangoon.....	Apr. 25-May 8.....	13	4	
<b>Italy:</b>				
Genoa.....	May 17-23.....	12		In Province.
Messina.....	May 9-16.....	34	4	Do.
Palermo.....	May 11-24.....	4		
<b>Japan:</b>				
Kobe.....	May 9-23.....	5	2	
<b>Java:</b>				
West Java.....				
Batavia.....	Apr. 16-22.....	1	1	Apr. 16-22, 1920: Cases, 8; deaths, 2.
<b>Manchuria:</b>				
Mukden.....	May 2-8.....			Present.
<b>Mexico:</b>				
Mazatlan.....	May 19-25.....		1	
San Luis Potosi.....	May 31-June 6.....		1	
<b>Newfoundland:</b>				
St. Johns.....	June 5-11.....	3		Reported at two other localities.
<b>Spain:</b>				
Valencia.....	May 23-29.....	6		
<b>Tunis:</b>				
Tunis.....	May 25-30.....	3	3	
<b>Turkey:</b>				
Constantinople.....	May 16-22.....	1		

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

**Reports Received During Week Ended July 2, 1920—Continued.**

**TYPHUS FEVER.**

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria:				
Algiers.....	May 11-20.....	13		Data for Constantine and South Territories not available.
Oran.....	do.....	66		
Chile:				
Caleta Coloso.....	May 10-16.....		2	
Valparaiso.....	May 2-22.....		9	
Egypt:				
Alexandria.....	Apr. 14-27.....	102	30	
Cairo.....	May 2-8.....	123	44	
Port Said.....	do.....		1	
Great Britain:				
Dublin.....	May 23-June 5.....	2		
Glasgow.....	May 30-June 5.....		1	
Mexico:				
Chihuahua.....	May 31-June 6.....		1	
Tunis:				
Tunis.....	May 24-30.....	13	2	
Turkey:				
Constantinople.....	May 16-22.....	14		

**YELLOW FEVER.**

Mexico:				
Vera Cruz.....	June 22.....		2	Mar. 1-31, 1920: Cases, 128. Apr. 1-30, 1920: Cases, 64. At Quarantine Station. From s. s. Huallaga.
Peru				
Calleo.....	Apr. 1-30.....	1		
Catacaos.....	Mar. 1-31.....	14		
Do.....	Apr. 1-30.....	2		
La Huaca.....	Mar. 1-31.....	9		
Morropon.....	Apr. 1-30.....	37		
Munuelia.....	Mar. 1-31.....	12		
Do.....	Apr. 1-30.....	5		
Paita.....	Mar. 1-31.....	81		
Do.....	Apr. 1-30.....	14		
Piura.....	Mar. 1-31.....	1		
Do.....	Apr. 1-30.....	4		
Salitral.....	Mar. 1-31.....	2		
Sullana.....	Mar. 1-31.....	9		
Do.....	Apr. 1-30.....	1		
Salvador:				
Sonsonate.....	May 22-June 9.....	5	2	