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# EFFECT OF OIL POLLUTION OF COAST AND OTHER WATERS ON THE PUBLIC HEALTH.

Prepared by a committee consisting of F. W. Lane, 1 Chairman, A. D. Bauer, 2 H. F. Fisher, 3 and P. N. Harding.

#### GENERAL STATEMENT.

This paper is one of the appendices of a more comprehensive reports of an investigation made recently by the Bureau of Mines, in cooperation with the American Petroleum Institute and the American Steamship Owners' Association. The committee charged with the conduct of the investigation did not deem it to be among its duties to conduct scientific research on the effect of oil pollution of coast waters on the public health; it attempted merely to assemble and to summarize briefly such information as was available on the subject. The committee wishes to acknowledge the helpful cooperation of the Public Health Service in preparing the report on this branch of the work assigned to it.

The possible effects of oil pollution of the various waters on the public health can not be ignored. The committee communicated with many health officers in order to obtain their views and any information available on the subject. As the problem has become a serious one only within the last few years, very little work has been done, and many health officers reported that they had no special knowledge of the effects of oil pollution on the public health. Certain sanitary experts informed the committee that pollution from sewage is a more serious menace than pollution by oil.

In connection with the present discussion, Appendix E, "Oil Pollution at Bathing Beaches," and Appendix G, "Effect of Oil Pollution on Marine and Wild Life," should be consulted. In

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<sup>&</sup>lt;sup>5</sup> "Pollution by Oil of the Coast Waters of the United States." Certain parts of this complete report were published by the Bureau of Mines as a preliminary report in September, 1923.

<sup>&</sup>lt;sup>6</sup> These appendices have not yet been published, but may be consulted at the effices of the Bureau of Mines, Interior Building, Washington, D. C.

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Appendix G particular attention is called to certain extracts from a paper by Dr. T. C. Nelson.

EFFECT ON BATHING, BOATING, FISHING, AND HUNTING.

Possibly the most harmful results to the public health are brought about through the discouragement of bathing, boating, fishing, and hunting. The importance of this phase of the subject may be judged from the statement of one sanitary expert that at the height of the bathing season nearly 1,000,000 persons each day visit the beaches from New York City alone. It is probable that the beaches of other localities along the Atlantic and Gulf coasts play nearly an equally important rôle in the public life. The loss of the use of bathing beaches is not merely a loss to the proprietors of these recreation centers, but the deleterious effect on the health of the communities must be felt sooner or later. When deprived of the use of the beaches, people may resort to bathing in localities which are badly polluted by sewage. This point was emphasized by sanitary engineers in several localities visited by the committee.

The Massachusetts State Board of Health apparently has considerable power in controlling industries in the State, so far as they may affect the public health. In that State it is understood that the board of health may order a plant to close without the sanction of any court. The industry so affected must cease operating at once, but an appeal to the court for suspension or modification of the order may be made. Making use of these powers, the Massachusetts State Board of Health closed one oil refinery some time ago, pending the installation of certain devices for eliminating odors and oil pol-In this particular case, the committee was informed, the wind and tide had carried the oil 3 or 4 miles from the point of pollution, leaving the shores with a black, tenacious deposit, and having a considerable effect not only upon the health of the rather thickly settled residential area in the vicinity, but upon yachting, boating, and bathing, which healthful sports are popular at that place. It is reported that finny and shell-fish are also considerably affected in this area.

## EDIBILITY OF SEA FOOD.

The oily taste acquired by sea food in the presence of oil pollution has been frequently observed. It is stated that clams and other sea food not only fail to reach the proper maturity under such conditions, but apparently contain a perceptible amount of the contaminating material, even after the food has been cooked. It is understood that shellfish taken from Jamaica Bay, N. Y., are not permitted to be sold, because of the very badly polluted condition of the waters in this locality caused by sewage and oil.

## RETARDING OF OXIDATION OF SEWAGE.

The possible effect of thin films of oil in retarding the normal oxidation of sewage has been brought to the attention of the committee by several sanitary experts. There may be some question as to whether the amount of oil ordinarily present in coast waters is sufficient to prevent or hinder such oxidation. On the other hand, in certain tributaries which have been inspected by the committee, and which serve as the sewage drainage for particularly congested communities, it does not seem unreasonable to suppose that the very appreciable quantities of oil seen on the surface of the water may hinder the normal oxidation processes. This would seem to be particularly true of streams where the current is very sluggish, such as Gowanus Canal, Brooklyn; the Passaic River, Newark; and portions of the Schuylkill River, Philadelphia. Another aspect of this phase of the subject is discussed in Appendix G in certain extracts from a paper by Dr. T. C. Nelson.

#### IRRITATION OF THE SKIN.

It is believed that certain skin irritations which have been observed in various localities may result from contact with oily material while the persons are in bathing. One expert reported that oil in bathing beach waters has a marked irritating effect on the skin as well as on the eyes, nose, ears, and throat. It is understood that at certain times when oil deposits have been most noticeable on the beaches, specialists in skin diseases have reported a rather large number of such cases.

The committee is informed that some years ago there was an epidemic of skin diseases in Narragansett Bay and Long Island Sound. This may have been due to oil, but there appears to be no proof of this fact. Many specialists in skin diseases were consulted at the time of the epidemic, but the results of these efforts apparently were not very definite.

#### ODORS FROM OIL AND OILY DEPOSITS.

The nuisance brought about by odors from certain oily deposits has been brought to the attention of the committee in a few cases, but this does not appear to be very serious. Indirectly, by retarding the normal oxidation of sewage, oil pollution may result in obnoxious odors from the accumulation of putrid fecal matter.

#### OPINIONS EXPRESSED BY VARIOUS AUTHORITIES.

The committee interviewed a number of persons with regard to the effect of oil pollution on the public health. Many letters were July 11, 1924 1660

also written to State and city boards of health, but the response to these inquiries was, in general, disappointing. In many cases no replies were received.

A letter from the Bureau of the Public Health Service, Treasury Department, Washington, D. C., contains the following paragraph:

"It would appear at first sight that oil pollution is of major significance on account of economic considerations, such as the diminution of fish life and the offering of exceptional fire risk. There must, however, be a connection between the presence of oil and the processes of natural purification of water."

The health commissioner of the city of Boston wrote in part as follows:

"This department has made no intensive study of the subject \* \* \* "

"The investigator also visited places where lobster meat was being canned, and found that the lobster cans containing the live lobsters were completely covered with this oil inside and out. This condition was also noted at other lobster establishments along the water front of the city proper."

The director of the bureau of engineering, Department of Health, State of Connecticut, wrote in part:

"The former Industrial Wastes Commission, copies of whose reports have been sent you, made special studies of the pollution of inland waters by the wastes from the manufacture of brass and copper, iron and steel, paper, silk, wool scouring, dyeing, and from the distillation of wood alcohol. From none of the streams investigated was the water used for drinking purposes, and bathing in them was practiced only to a limited extent. Our studies, therefore, were more of the effect of the pollution on public comfort and welfare than public health. Our investigation showed the danger to public health to be much greater from the discharge of domestic wastes than industrial."

The Department of Health of the State of New York has investigated the subject of oil pollution in New York Bay and Jamaica Bay and their tributaries. Apparently no studies were made by this department regarding the effect of oil pollution on the public health, nor do any conclusions appear to have been drawn on this question.

The following is taken from a letter from the commissioner of health of the city of Baltimore:

"\* \* \* This department has not taken up this matter from the sanitary aspect. \* \* \* You will see that we have no information from the public health standpoint, but we are interested in this matter, and if you have any program in which we could cooperate to the end of securing some data along this line I should be only too glad to do what I could."

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The director of public welfare, Norfolk, Va., stated in reference to pollution by oil:

" \* \* \* How much danger this has actually done in creating sickness, I am not able to say. \* \* \* "

The following is contained in a letter received from the health officer, Newport, News, Va.:

"In reply to your letter of November 14, beg to advise that oil in lower James River and Hampton Roads is at times very objectionable to bathers. Otherwise I have not noticed that it is in any way detrimental to public health."

The following is taken from a letter from the district health officer, State Board of Health, Pensacola, Fla.:

"I presume that the city authorities have no information along the line desired, and I have to admit that I can not give you firsthand information regarding the effect on public health of oil pollution of navigable coast waters."

The county health officer, Mobile, Ala., wrote in part:

"Relative to the pollution of navigable waters by oil, I have no information that such so-called pollution of coast waters has any deleterious effect upon the public health."

A sanitary expert called the committee's attention to the enormous number of persons who use the bathing beaches each day in the vicinity of New York. He pointed out that a loss of the use of such recreation centers as a result of oil pollution must eventually have a very important effect upon the public health. In his opinion the oil met with at beaches has a very definite irritating effect on the skin, eyes, nose, ears, and throat. He regards pollution by sewage as very serious; and in many places such pollution may be as bad as or worse than pollution from oil. It is understood that several industrial plants along Kill Van Kull burn residual sludge under such conditions that injurious sulphur oxide gases are given off. This authority pointed out that saponfied oils are now used for mosquito extermination and can not be considered as pollution.

A representative of the New York Chamber of Commerce, an engineer, informed the committee that no special study of oil pollution had been made by that organization. This engineer has been interested in harbor pollution for about 15 years, and was chairman of a committee appointed by the Metropolitan Sewage Commission of New York to investigate harbor conditions, and to set up a standard of sanitary cleanliness for the harbor. Reports of this work were published in 1910, 1912, 1914, at which period there was not the same oil pollution problem to deal with as we now have. This authority, however, does not consider oil pollution as great a menace to the public health as pollution by sewage, and suggested that it might be possible to eliminate much of the present trouble from oil by some changes in ship construction. He believes it possible that a film of oil may reduce appreciably the capacity of water to assimilate sewage.

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An engineer of the Massachusetts State Department of Health called attention to the wide powers possessed by that department in dealing with industries in the State. He indicated that in a general way the menace of oil thrown into the waters from refineries consists in its effect in rendering clams and similar sea food unfit to cat, in the odor which is given off from oil deposits, and in the probable prevention of the normal oxidation of sewage.

The State commissioner of health of a large New England State informed the committee that he was aware of numerous complaints regarding pollution by oil, but none of these had been brought to him personally. He has had no experience with cases of skin infection said to be due to oil.

In the opinion of a sanitary engineer of the Board of Purification of Waters, Providence, R. I., the health menace of oil lies in the fact that it renders marine food unfit to eat, injures the beaches, and discourages fishing, boating, and hunting. He referred to an epidemic of skin diseases in Narragansett Bay and Long Island Sound about 1919, but indicated that a connection between this epidemic and pollution by oil could not be established.

## SUMMARY.

For present purposes the health menace of petroleum oil from various sources that reaches the coast and other waters may be classified as follows:

- 1. The discouragement of healthful recreation, such as bathing, boating, hunting, fishing.
- 2. Its effect in rendering clams, oysters, and other sea food unfit to eat on account of the oil actually absorbed by this food.
- 3. The unsightly appearance which may result from the presence of oily refuse in any locality, and the accompanying tendency to lower the hygienic standards of the community.
- 4. The possible prevention or retardation of the normal oxidation of sewage.
- 5. Skin diseases or irritations which may be the result of contact with oil and oily residues.
- 6. The odors which may be given off directly by oil and oily matter when deposited on the shores and banks of streams and the obnoxious odors from accumulated fecal matter resulting from retarded oxidation of sewage.

Owing to the lack of more definite information, it appears impracticable to state the degree to which these factors are at present affecting the public health; but it seems certain that over a long period of time the effect must be appreciable. Before definite conclusions can be drawn, however, much work must be done along the lines indicated in the topics just summarized.

## LETHARGIC ENCEPHALITIS IN GREAT BRITAIN.

The following figures showing the occurrence of lethargic encephalitis in England and Wales during 1922, 1923, and the first part of 1924, by quarters, and up to May 17, 1924, were recently given out by the Minister of Health in answer to a parliamentary inquiry:

					Qua	rter.1				
		1	922.			1	923.		19	924.
,	1st.	2d.	3d.	4th.	1st.	2d.	3d.	4th.	1st.	7 weeks ended May 17.
Cases Deaths	140 95	132 96	89 82	93 66	448 188	279 167	144 90	154 86	753 2229	1,715

<sup>1</sup> Some of the periods vary a day or two from exact quarters, but are represented here as quarterly periods for comparative purposes.
2 Uncorrected figures.

3 Approximate.

The notifications in England and Wales during the 52 weeks ended June 2, 1923, were 868, whereas during the 50 weeks ended May 17, 1924, they numbered 2,829.

In view of the increased prevalence of lethargic encephalitis during the past two or three months, the ministry of health has revised and reissued a memorandum dealing with the disease, which was prepared three years ago, incorporating in it late statistical records and recently gained knowledge concerning the symptoms and types of the disease. The memorandum has been circulated to the medical officers of health.

The chief medical officer of the ministry of health, Sir George Newman, calls special attention to the fact that this memorandum contains a fuller reference to the mental sequellae of lethargic encephalitis than did the former memorandum. He states: "The recognition of this aspect of the disease is important to school medical officers and others engaged in medical work among children and young persons." He also calls attention to the value of local inquiry in the detection of mild, abortive, or unrecognized cases, and to the securing of information regarding contacts and other facts bearing on the epidemiology of encephalitis. The memorandum suggests the following line of action:

"(b) Search for mild and abortive cases."

"(c) Aiding in any practicable pathological investigation and in obtaining material for the purpose.

<sup>&</sup>quot;(a) Full determination of the associated conditions and any fact which may throw light on the epidemiology of the disease.

<sup>&</sup>lt;sup>1</sup> The Medical Officer, June 14, 1924.

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"(d) Aiding in securing the treatment of the case in hospital or otherwise.

"(e) Enjoining the precautions required in the case of a disease apparently capable of transmission from person to person, especially through mild or abortive cases capable of carrying infection; and

"(f) 'Following up' and recording the after-history of patients; in particular, as to any mental after-effects which may be observed. In this connection inquiry should also be made into the previous history of children who begin to exhibit changes in behavior or unusual accentuation of undesirable qualities; these symptoms not infrequently point to an overlooked attack of epidemic encephalitis at an earlier date."

Medical officers are privileged to send to the ministry for examination specimens of cerebrospinal fluid from patients having or suspected of having lethargic encephalitis; and it is suggested that they take any useful and practicable action to secure post-mortem and pathological examinations by skilled workers who are investigating the disease.

It is advised that, in view of the severity of the disease and the importance of good nursing, hospital treatment should be secured if possible. It is urged that local isolation hospitals should be made available; and that where public nursing arrangements are provided, this service should be made available for patients treated at home.

## CURRENT COURT DECISIONS PERTAINING TO PUBLIC HEALTH.

Title of venereal disease law held to comply with constitutional requirement.—The title of Act No. 272, Michigan Public Acts of 1919, reading "An act to protect the public health; to prevent the spreading of venereal diseases, to prescribe the duties and powers of the State department of health and of local health officers and health boards with reference thereto, and to make an appropriation to carry out the provisions hereof," has been held by the Supreme Court of Michigan to comply with the constitutional provision that "No law shall embrace more than one object, which shall be expressed in its title." Section 2 of the act requires physicians to report cases of venereal diseases to the State department of health and it was this section that the defendant was convicted of violating. (People v. Wohlford, 197 N. W. 558.)

Local board of health can not change city ordinance.—The Supreme Judicial Court of Massachusetts has decided that the vote of a local board of health, authorizing the use of a tile drain connecting with a sewer, is void where a city ordinance requires drains to be of iron. (Kelly et al. v. Board of Health of Peabody et al., 143 N. E. 39.)

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Bread manufacturer held liable to injured consumer.—The plaintiff bought from a neighboring grocer a loaf of bread manufactured by the defendants and while eating the bread was injured by a piece of iron contained therein. In an action for negligence the judgment of the lower court in favor of the plaintiff was affirmed by the Supreme Judicial Court of Massachusetts. (Tonsman v. Greenglass et al., 142 N. E. 756.)

City sanitary cart driver held within compensation act.—The driver of a sanitary cart operated by the public health department of a city has been held by the Court of Appeals of Georgia, Division No. 2, to be an "employee" of the city and entitled to compensation under the workmen's compensation act. (City of Atlanta v. Hatcher, 121 S. E. 864.)

Contraction of typhoid fever held not compensable under workmen's compensation act.—The Supreme Court of Michigan has decided that in the instant case the contraction of typhoid fever by the plaintiff, an employee of an independent contractor, was not an industrial accident caused by exposure to some special hazard incidental to or arising out of his employment. The defendant, the owner of the premises where the work was being performed, did not furnish the plaintiff with the water alleged to be the cause of the infection for the purposes of or in connection with his work and did not know in fact that the plaintiff was drinking it. The water was not at or in view of the place of plaintiff's employment but was in a barn some distance from there and in a condition indicating it was put there to water animals. (Ames v. Lake Independence Lumber Co., 197 N. W. 499; Wiltfong v. Lake Independence Lumber Co., 197 N. W. 502.)

Garbage disposal ordinance upheld.—A city ordinance defining garbage and prohibiting the hauling of same by anyone but a licensed garbage officer of the city or his assistants has been held by the Court of Civil Appeals of Texas to be within the police power of the city and valid and not to create a monopoly. (City of Breckenridge v. McMullen, 258 S. W. 1099.)

Milk ordinance void because in conflict with State law and regulations.—In prosecutions for operating dairies without permits, in violation of a city ordinance, the Supreme Court of Louisiana has decided that the said ordinance is null and void, because in conflict with a State law and the State sanitary code, at least in so far as the ordinance authorized the city board of health to refuse permits to operate dairies unless the owners thereof had their cows tuberculin tested in the manner and by the veterinarians designated by the city board of health rather than in the manner required by the State board of health. (City of New Orleans v. Ernst, 99 So. 391; City of New Orleans v. Poulet, City of New Orleans v. Souquet, City of New Orleans v. Daret, City of New Orleans v. Glaudi, 99 So. 394.)

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## THE NOTIFIABLE DISEASES.

#### PREVALENCE DURING 1923 IN CITIES OF OVER 100,000.

The following tables were compiled from data furnished by the health officers of the cities. They include all cities of 100,000 population or over in the United States.

The following is a list of the diseases included:

Anthrax.

Cerebrospinal meningitis.

Chicken pox. Dengue.

Diphtheria. Influenza.

Lethargic encephalitis.

Malaria.

Measles. Mumps.

Pellagra.

Pneumonia (all forms).

Poliomyelitis.

Rabies in animals.

Rabies in man. Scarlet fever.

Septic sore throat.

Smallpox.

Tuberculosis (all forms and pulmonary)

Typhoid fever. Typhus fever.

Whooping cough.

The populations given, and which were used in computing the rates, were estimated as of July 1, 1923, except where otherwise stated.

The estimated expectancy, given in the tables for some of the diseases, is the result of an attempt to ascertain from the experience of recent years how many cases of the disease under consideration might be expected in 1923. In most instances the estimated expectancy is the median number of cases reported by the city for the years 1916 to 1922, inclusive. When several epidemics have occurred during these years, or when for other reasons the median is not satisfactory, epidemic years are excluded, and the estimated expectancy is the mean of the number of cases reported for the non-epidemic years. The aim has been to ascertain how many cases of each disease may reasonably be expected in the absence of epidemics.

The column headed "Number of years" shows the number of years for which data were available for each city.

In comparing the figures for 1923 with the estimated expectancy or with reports for preceding years, it should be borne in mind that for several years there has been a gradual improvement in the reporting of communicable diseases. An increase in the number of cases reported may be due to better reporting rather than to an increase in the number of cases occurring.

In studying these tables it should be kept in mind that a relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department of that city is active

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and that the cases of the disease are being well reported by the practicing physicians. It does not usually mean that the disease is more prevalent in that city than in other cities. A high fatality rate may mean that the disease was unusually virulent in a city; that the physicians did not treat the disease in that city with the success usual elsewhere; or that the practicing physicians did not report all of their cases to the health department. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the city was unusually mild; that the physicians treated it with unusual success; that the practicing physicians reported their cases satisfactorily; or that the registration of deaths was incomplete or the assignment of the causes of death inaccurate.

Cities which did not report either cases or deaths of a certain disease in 1923 are not included in the table for that disease.

Chicken pox.—The case rate for chicken pox was 2.02 per thousand population in 77 cities in 1923. In 1922 it was 1.69 in 68 of these cities.

Diphtheria.—The tables indicate that diphtheria was less prevalent during 1923 than during the last few years. Fifty-nine thousand cases were reported by 77 cities, while the estimated expectancy, which is lower than the average number of cases, was more than 63,000 cases. For 1923 the cities reported 1.97 cases per thousand population, while in 1922, 2.25 cases per thousand were reported for 73 cities.

Influenza.—The death rate from influenza in 1923 in 77 cities was 21 per hundred thousand population. In 1922 data were available for 70 cities, and the death rate was 16 per hundred thousand.

Measles.—In 1923, 211,372 cases of measles were reported by 77 cities. The estimated expectancy was 112,542 cases. The measles case rate in 1923 was 7.11 per thousand population. In 1922 it was 5.26 per thousand. Seventy-two cities were included in the figures for 1922.

Pneumonia.—The death rate from pneumonia for 75 cities in 1923 was 1.51 per thousand population. In 1922 the death rate from this disease in 74 cities was 1.36 per thousand.

Scarlet fever.—Seventy-seven cities reported 62,308 cases of scarlet fever for the year 1923. The estimated expectancy was 41,471 cases. The case rate in 1923 was 2.07 per thousand. In 1922, 73 cities had an aggregate case rate of 1.80 per thousand.

Smallpox.—Eighteen large cities, which did not report any cases of smallpox are omitted from the table. Including these cities, the totals for smallpox for the year 1923 were: Cases, 5,429; deaths, 42; aggregate population, 30,144,759. These figures give a case rate of 0.18 per thousand population, and a death rate of less than 0.0014 per thousand.

For 1922, 75 cities, having an aggregate estimated population of 29,315,201, reported 5,056 cases of smallpox and 350 deaths, giving a case rate of 0.17 per thousand population and a death rate of 0.012 per thousand.

The difference in the fatality rates of the two years is striking—0.77 deaths per 100 cases in 1923 and 6.92 deaths per 100 cases in 1922. Of the deaths in 1922, 248 occurred in the city of Denver, Colo., 63 in Kansas City, Mo., and 15 in Chicago, Ill.

Tuberculosis.—The death rate from tuberculosis (all forms), according to reports from 77 cities, was 0.98 per thousand population. For 1922 the reports from 72 cities gave a death rate of 1.01 per thousand.

Typhoid fever.—Seventy-seven cities reported 5,734 cases of typhoid fever for 1923, which is 19 per cent less than the estimated expectancy. The case rate (0.19 per thousand) and the death rate (0.03 per thousand) were the same as for 73 cities in 1922.

Whooping cough.—Seventy-six cities reported 49,698 cases of whooping cough, with 1,899 deaths, for 1923, giving a case rate of 1.67 per thousand population and a death rate of 0.06 per thousand.

## Reported Prevalence for the Year 1923.

#### ANTHRAX.

City.	Cases reported, 1923.	Deaths registered, 1923.	City.	Cases reported, 1923.	Deaths registered, 1923.
California: Los Angeles Oakland San Francisco Delaware: Wilmington Illinois: Chicago Louisiana: New Orleans Maryland: Baltimore Massachusetts: Boston Lynn Springfield	1 6 3 2 2 2 2 1 1	0 1 0 0 1 0 0 0	New Jersey: Camden New York: New York Ohio: Dayton Pennsylvania: Philadelphia Rhode Island: Providence Texas: Houston Virginia: Richmond Wisconsin; Milwaukee	22 2 2 1	1 1 1 1 0 0

# Reported Prevalence for the Year 1923—Continued. CEREBROSPINAL MENINGITIS, EPIDEMIC.

			nated tancy.			1923		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatalities per 100 cases.
Alabama: Birmingham	195, 901	7	11	6	0. 03	0		
California: Los Angeles San Francisco	666, 853 539, 038	7 7	17 31		.03	8 15	0. 01 . 03	36. 4 62. 5
Colorado: Denver	272, 031	6	1	11		1	00	
Connecticut: Bridgeport	1 143, 555	7	18			8	.06	l
Hartford	1 138, 036	6	6		.01		.00	
New Haven	172, 967	7	13	11	.06			
Delaware: Wilmington District of Columbia:	117, 728	5	2	3	.03	1	. 01	33. 3
Washington	1 437, 571	6	8	8	. 02	6	. 01	75. 0
AtlantaIllinois:	222, 963	4	8	ļ		11	. 05	
Chicago	2, 886, 121	5	87	55	.02	32	. 01	58. 2
Indianapolis Iowa: Des Moines	342, 718 140, 923	5	6 4	4	01	2	. 01	50. 0
Kansas: Kansas City	115, 781	5	13	3	. 03	11 2	. 10	
Kentucky: Louisville	257, 671	5	7		.03	1	. 02	66. 7
Louisiana: New Orleans	404, 575	6	11	14	. 03	11	.03	78. 6
Maryland: Baltimore	773, 580	5	34	15	. 02	7	.01	46. 7
Massachusetts: Boston	770, 400	6	54	35	. 05	22	. 03	62. 9
Cambridge	111, 444	6	5	1	. 01	0		
Fall RiverLowell	120, 912 115, 089	7 7	9	9 5	. 07	4	. 03	44. 4
Lvnn	102, 683	6	5	. 3	. 04	2 9	. 02	40. 0
New Bedford	130, 072	5	5 3 5	4	. 03	3	.02	75. 0
Springfield	144, 227 191, 927	5 7	5 6	3 6	. 02	0		
Michigan: DetroitFlint	995, 668 117, 968	5 2	53 2	37 3	. 04	26 1	. 03	70. 3 33. 3
Minnesota:	1	ا ـ	_		i		1	
Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	5 4 5	5 9 6	5 4	.01	4 4	. 04	80.0
Missouri: Kansas City St. Louis	351, 819	5	11	6	.02	3	. 01	50.0
Nebraska:	803, 853	7	37	33	. 04	15	. 02	45. 5
Omaha New Jersey:	204, 382	3	5	1	.00	0		
CamdenElizabeth	124, 157 103, 947	6	6	-		1 1	. 01	
Elizabeth Jersey City	309, 034	7	13	12	. 04	8	. 01	66. 7
Newark	438, 699	. 5	32	20	. 05	15	. 03	75. 0
Paterson Trenton	139, 579 127, 390	7 7	8	1	. 03	0	-	
Albany	117 375	4	2	2	. 02	1	. 01	EO O
Buffalo	536, 718	7	18	8	.01	5	01.	50. 0 62. 5
New York	5, 927, 625	7	279	133	. 02	77	. 01	57. 9
Vtica Yonkers	117, 375 536, 718 5, 927, 625 103, 457 107, 520	4 7 7 7	3	1	. 01	3 -	. 03	
Akron	1 208, 435	4	10	- 1	-	3	. 01	
Cincinnati	406, 312	6	ii	9	. 02	8	.02	88. 9
Cleveland	406, 312 888, 519	7	27	18	. 02	12	. 01	66. 7
Columbus Toledo	261, 082 !	5	3 4	-		3 2 2	. 01	
Youngstown	268, 338 1 132, 358	5	4			2	.02	

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

<sup>1</sup>Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued.

## CEREBROSPINAL MENINGITIS, EPIDEMIC-Continued.

			mated tancy			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported.	Cases per 1,000 inhab- itants	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatali- ties per 100 cases.
Oklahoma:								
Tulsa	102, 018	3	4			2	0.02	
Oregon:	1			11			1	
Portland	273, 621	5	4			3	.01	<b>.</b>
Pennsylvania:	1 000 500	,					١	
Philadelphia	1, 922, 788	5 6	51 15	31 12	.02	23 8	. 01	74.2
Pittsburgh	613, 442	6	3	12	.02		.01	66.7
Reading	110, 917 140, 636	5	2			1 4	.01	
Scranton	140, 030	0				*	.03	
Providence	242, 378	7	16	!! !		13	. 05	i
Tennessee:	242, 310	•	10			10	.00	
Memphis	170, 067	6	12	7	. 04	5	. 03	71.4
Texas:	110,001	•		1 1	.01	•	.00	/1.4
Dallas	177, 274	7	8	3	. 02	2	. 01	66.7
Dallas Fort Worth	143, 821	4	ž		. ŏī	ī	.01	50.0
Houston	154, 970	Ĝ.	4	-	.01	3	.02	- O. U
San Antonio	184, 727	6	7			7	. 04	
Utah:	101,11		•				. 01	
Salt Lake City	126, 241	5	5	1 1		3	. 02	
Virginia:	,		•			١		
Norfolk	159, 089	5	3	7	. 04	3	. 02	42.9
Richmond	181, 044	6	3	2	. 01	ŏl		12. 0
Washington:	,		- 1	1 -		- 1		
Tacoma	101, 731	6	4			4	. 04	
Wisconsin:		- 1	- 1			- 1		
Milwaukee	484, 595			ll.		5	. 01	

#### CHICKEN POX.

					1923.		
City.	Estimated population July 1, 1923.	Cases reported, 1922.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death registered.
Alabama:							
Birmingham	195, 901	196	238	1. 21	0		
Los Angeles	666, 853	1,016	1, 484	2.23	0	1	ļ
Oakland	240, 086	245	395	1.65	Ĭ	0.00	395.0
San Francisco	539, 038	1, 401	953	1. 77	î	0.00	953.0
Colorado:	000,000	2, 101	"		•		000.0
Denver	272, 031	970	921	3, 39	0		
Connecticut:			1	5.55			
Bridgeport	<sup>1</sup> 143, 555	200	104	. 72	0		
Hartford	1 138, 036	155	206	1. 49	0		
New Haven	172, 967		363	2. 10	0		
Delaware:			·				
Wilmington	117, 728	218	139	1. 18	0		
District of Columbia:	1 400				_		
Washington Florida:	1 437, 571	1, 186	1, 261	2.88	0		
Jacksonville	100, 046	1	122	1. 22	0		
Georgia:	100, 040		122	1. 22	U		
Atlanta	222, 963	95	102	. 46	0		
Illinois:	222, 300	50	102	. 40	•		
Chicago	2, 886, 121	3, 957	4, 604	1, 60	7	.00	657. 7
Indiana:	2,000,121	0,00.	2,001	2.00	•		00
Indianapolis	342, 718	1,011	964	2.81	ol		
Iowa:		,	"		, i		
Des Moines	140, 923		26	. 18	0		
Kansas:		i i			_		
Kansas City	115, 781	197	291	2.51	0 )		

CHICKEN POX-Continued.

					1923.		
City.	Estimated population July 1, 1923	Cases reported, 1922,	Cases reported.	Cases per 1,000 inhab- itants.	Deaths registered.	Deaths per 1,000 inhab- itants.	Cases reported for each death registered.
Kentucky: Louisville	257, 671	135	227	. 88	0		
Maryland: Baltimore	773, 580	2, 207	2, 766	3. 58	4	0.01	691. 5
Massachusetts:  Boston Cambridge Fall River Lowell Lynn New Bedford Springfield Worcester Michigan:	770, 400 111, 444 120, 912 115, 089 102, 683 130, 072 144, 227 191, 927	1, 195 342 69 51 73 62 118 158	2, 017 585 130 73 117 114 438 350	2. 62 5. 25 1. 08 . 63 1. 14 . 88 3. 04 1. 82	3 0 0 0 0 0 0	.00	672.3
DetroitFlintGrand RapidsMinnesota:	995, 668 117, 968 145, 947	1, 788 253 189	2, 209 442 355	2. 22 3. 75 2. 43	0 0		
Duluth	106, 289 409, 125 241, 891	252 1, 643 639	2, 603 988	1. 79 6. 36 4. 08	0 0 0		
Kansas City	351, 819 803, 853	253 1, 094	470 1, 219	1. 34 1. 52	1 1	. 00 . 00	470. 0 1, 219. 0
Nebraska: Omaha New Jersey:	204, 382	271	171	. 84	0		
Camden Elizabeth Jersey City Newark Paterson Trenton New York:	124, 157 103, 947 309, 034 438, 699 139, 579 127, 390	110 244 180 1,050 240 98	155 263 232 1, 622 528 128	1. 25 2. 53 . 75 3. 70 3. 78 1. 00	0 0 0 0 0	. 01	128. 0
Albany	117, 375 536, 718 5, 927, 625 317, 867 184, 511 103, 457 107, 520	412 871 5, 738 292 398 322 132	396 939 8, 671 424 314 293 200	3. 37 1. 75 1. 46 1. 33 1. 70 2. 83 1. 86	0 0 7 0 0 0	. 00	1, 238. 7
Akron Cincinnati Cleveland Columbus Dayton Toledo Youngstown Sklahoma:	1 208, 435 406, 312 888, 519 261, 082 165, 530 268, 338 1 132, 358	274 381 1,572 141 709 198	421 460 2,718 236 139 1,246 392	2. 02 1. 13 3. 06 . 90 . 84 4. 64 2. 96	0 0 0 0 0 1	. 00	1, 246. 0
Oklahoma Tulsa	101, 150 102, 018	48 50	205 29	2. 03 . 28	0		
Oregon: Portland Pennsylvania:	273, 621	454	633	2. 31	0 .		
Erie Philadelphia Pittsburgh Reading Scranton	112, 571 1, 922, 788 613, 442 110, 917 140, 636	488 3, 609 1, 918 307 43	344 3, 923 2, 015 466 64	3. 06 2. 04 3. 28 4. 20 . 46	0 4 0 0 0	. 00	980. 7
Rhode Island: Providence cunessee:	242, 378	50	113	. 47	0		
Memphis Nashville exas:	170, 067 121, 128	412 46	417 94	2. 45 . 78	0		
Dallas Fort Worth Houston San Antonio tah:	177, 274 143, 821 154, 970 184, 727	693	397 21 10 19	2. 24 . 15 . 06 . 10	0 0 0 0		
Salt Lake City	126, 241	962	700	5. 54	0  _		

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

#### CHICKEN POX-Continued.

					1923.		
City.	Estimated population July 1, 1923	Cases reported, 1922.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death register o
Virginia: Norfolk Richmond	159, 089 181, 044	36 112	108 239	. 68 1. 32	0		
Washington: Seattle	<sup>1</sup> 315, 685	919	809	2. 56	0		
Spokane Tacoma	104, 573 101, 731	389 227	418 252	4.00 2.48	0		
Wisconsin: Milwaukee	<b>484,</b> 595	1, 725	1, 307	2.70	2	0.00	653.
77 eities	29, 740, 184		59, 997	2.02	33	.00	1, 818.

#### DENGUE.

City.	Cases reported 1923.	Deaths registered, 1923.	City.	Cases reported 1923.	Deaths registered, 1923.
Alabama: Birmingham Florida: Jacksonville Louisiana: New Orleans	29 12 12	0 1 1	Texas: Dallas	18	0 2 4

#### DIPHTHERIA.

			mated tancy.			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases 16- ported.	Cases p.r 1,000 inhab- itants.	Deaths regis- tered.	1,000 inhab- itants. 0, 07	Fatalities per 100 cases.
Alabama: Birmingham California	195, 901	7	189	216	1. 10	13	0, 07	6.0
Los Angeles Oakland San Francisco Colorado:	666, 853 240, 086 539, 038	7 7 7	1, 472 276 1, 104	2, 515 722 1, 708	3. 77 3. 01 3. 17	119 60 148	. 25	4.7 8.3 8.7
Denver	272, 031	7	619	1, 357	4. 99	79	. 29	5.8
Bridgeport Hartford New Haven Delaware:	1 143, 555 1 138, 036 172, 967	7 7 7	406 376 209	356 374 109	2. 48 2. 71 . 63	25 18 8	. 13	7. 0 4. 8 7. 3
Wilmington District of Columbia:	117, 728	6	88	157	1. 33	20	. 17	12.7
Washington Florida:	1 437, 571	7	735	565	1. 29	42	. 10	7.4
Jacksonville Georgia:	100, 046	4	48	83	. 83	19	. 19	22. 9
AtlantaIllinois:	222, 963	7	234	218	. 98	26	. 12	11.9
ChicagoIndiana:	2, 886, 121	7	7, 367	5, 836	2. 02	365	. 13	6.3
Indianapolisowa:	342, 718	7	885	680	1.98	41	. 12	6. 0
Des Moines	140, 923	5	185	194	1. 38	18	. 13	9.3

## DIPHTHERIA—Continued.

_			mated tancy.	. •		1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported.	Cases per 1,000 inhab- itants.	Déaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatali- ties per 100 cases.
Kansas: Kansas City	115, 781	6	188	133	1. 15	3	0.03	2.3
Kentucky: Louisville	257, 671	7	533	439	1. 70	13	.05	3.0
Louisiana: New Orleans	404, 575	7	602	693	1.71	32	.08	
Maryland:	773, 580	7	1	1, 318	1.70	90		4.6
Baltimore	,		1, 175	0 1		1 :	. 12	6.8
Boston Cambridge Fall River Lowell Lynn New Bedford Springfield Worcester	770, 400 111, 444 120, 912 115, 689 102, 683 130, 072 144, 227 191, 927	7 6 7 6 7 7	2, 832 238 221 253 249 144 177 282	3, 276 257 246 120 148 115 179 487	4. 25 2. 31 2. 03 1. 04 1. 44 . 88 1. 21 2. 54	173 11 21 14 9 9 21 36	. 22 . 10 . 17 . 12 . 09 . 07 . 15 . 19	5.3 4.3 8.5 11.7 6.1 7.8 11.7
DetroitFlint Grand Rapids	995, 668 . 117, 968 145, 947	7 6 7	3, 618 439 262	2, 424 573 308	2. 43 4. 86 2. 11	205 56 13	. 21 . 47 . 09	8. 5 9. 8 4. 2
Minnesota: Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	7 7 6	193 1, 007 859	143 1, 138 992	1. 35 2. 78 4. 10	7 51 50	. 07 . 12 . 21	4. 9 4. 5 5. 0
Missouri: Kansas City	351, 819 803, 853	7 7	539 3, 124	516 1, 543	1. 47 1. 92	40 55	. 11	7. 8 3. 6
Omaha New Jersey:	204, 382	6	338	452	2. 21	37	. 18	8. 2
Camden Elizabeth Jersey City Newark Paterson Trenton New York:	124, 157 103, 947 309, 034 438, 699 139, 579 127, 390	7 7 7 7 7 7	203 327 854 974 265 281	536 529 483 634 354 725	4. 32 5. 09 1. 56 1. 45 2. 54 5. 69	37 27 34 34 20 45	.30 .26 .11 .08 .14 .35	6. 9 5. 1 7. 0 5. 4 5. 6 6. 2
Albany Buffalo New York Rochester Syracuse Utica Yonkers hio:	117, 375 536, 718 5, 927, 625 317, 867 184, 511 103, 457 107, 520	7 7 7 7 7 7	169 1,009 13,045 499 452 118 187	404 686 8, 050 371 497 347 262	3. 44 1. 28 1. 36 1. 17 2. 69 3. 35 2. 44	15 56 553 35 29 21 18	. 13 . 10 . 09 . 11 . 16 . 20	3. 7 8. 2 6. 9 9. 4 5. 8 6. 1 6. 9
Akron Cincinnati Cleveland Columbus Dayton Toledo Youngstown	1 208, 435 406, 312 888, 519 231, 082 165, 530 268, 338 1 132, 358	5 7 7 7 7 6 6	331 757 1, 767 303 231 493 187	294 575 1, 621 381 276 728 903	1. 41 1. 42 1. 82 1. 46 1. 67 2. 71 6. 82	21 22 114 17 10 64 69	. 10 . 05 . 13 . 07 . 06 . 24 . 52	7. 1 3. 8 7. 0 4. 5 3. 6 8. 8 7. 6
Oklahoma: Oklahoma Tulsa	101, 150 102, 018	6 3	93 29	104 90	1. 03 . 88	10 11	. 10 . 11	9. 6 12. 2
Portland ennsylvania:	273, 621	6	230	604	2. 21	33	. 12	5. 5
Erie Philadelphia Pittsburgh Reading Scranton	112, 571 1, 922, 788 613, 442 110, 917 140, 636	7 7 7 7 7 7 7	217 3, 100 1, 298 200 256	196 3, 310 1, 427 157 135	1. 74 1. 72 2. 33 1. 42 . 96	14 270 159 20 10	. 12 . 14 . 26 . 18 . 07	7. 1 8. 2 11. 1 12. 7 7. 4
Providence	242, 378	7	754	462	1. 91	37	. 15	8. 0
ennessee: Memphis Nashville	170, 067 121, 128	6 7	491 153	281 79	1. 65 . 65	11 5	.06	3. 9 6. 3

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

#### DIPHTHERIA—Continued.

	Estimated expectancy.			1923.					
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatali- ties per 100 cases.	
Texas: Dallas. Fort Worth. Houston. San Antonio.	177, 274 143, 821 154, 970 184, 727	7 7 7 7	269 100 178 149	331 139 164	1. 87 . 97 1. 06	16 4 9 16	0.09 .03 .06	4.8 2.9 5.5	
Utah: Salt Lake CityVirginia:	126, 241	7	166	166	1. 31	13	. 10	7.8	
Norfolk Richmond Washington:	159, 089 181, 044	5 7	125 359	160 223	1. 01 1. 23	11 12	. 07 . 07	6. 9 5. 4	
Scattle Spokane Tacoma	1 315, 685 104, 573 101, 731	7 7 7	273 102 95	296 239 153	. 94 2. 29 1. 50	19 7 8	. 06 . 07 . 08	6, 4 2, 9 5, 2	
Wisconsin: Milwaukee	484, 595	7	816	1, 043	2.15	101	. 21	9. 7	
77 cities 2	29, 960, 032		63, 222	59, 005	1. 97	3, 968	. 13	6.7	

## INFLUENZA.

City.	Estimated population July 1, 1923.	Cases reported, 1923.	Cases per 1,000 inhabi- tants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhabi- tants.	Cases reported for each death regis- tered.
Alabama: BirminghamCalifornia:	195, 901	506	2. 58	77	0. 39	6.
Los Angeles Oakland San Francisco	666, 853 240, 086 539, 038	1, 251 188 757	1. 88 . 78 1. 40	72 35 122	. 11 . 15 . 23	17 5 6. :
Colorado: DenverConnecticut:	272, 031			75	. 28	
Bridgeport Hartford New Haven	1 143, 555 1 138, 036 172, 967	70 56	.51	35 25 32	. 24 . 18 . 19	2.8 1.7
Delaware: Wilmington District of Columbia:	117, 728			37	. 31	
Washington Florida: Jacksonville	1 437, 571 100, 046	410 210	. 94 2. 10	159 18	. 36	2. 6 11. 7
Georgia: AtlantaIllinois:	222, 933	638	2.86	44	. 20	14. 3
Chicagondiana:	2, 886, 121	2, 884	1.00	428	. 15	6. 7
Indianapolis	342, 718 140, 923			93	. 27	••••••
Kansas: Kansas City	115, 781	35	.30	65 10	. 46	3. 5
Kentucky: Louisville ouisiana:	257, 671	747	2.90	40	. 16	18.7
New Orleans	404, 575	477	1. 18	165	. 41	2.9
Baltimore	773, 580	4, 774	6. 17	217	. 28	22. 0
Cambridge Fall River	770, 400 111, 444 120, 912	372 83 39	. 48 . 74 . 32	97 8 28	. 13 . 07 . 23	3. 8 10. 4 1. 4

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

<sup>&</sup>lt;sup>2</sup> San Antonio, Texas, not included.

# Reported Prevalence for the Year 1923—Continued, INFLUENZA—Continued.

11	FLUENZA	Conun	ueu.			
City.	Estimated population July 1, 1923.	Cases reported 1923.	Cases per 1,00 inhabi- tants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhabi- tants.	
Massachusetts-Continued.						
Lowell	115, 089	57	0.50			
Lynn New Bedford	102, 683 130, 072	38 22	.37			
Springfield	144, 227	82	57			
Worcester	191, 927	50	.26			
Michigan:		l	h			1
Detroit	995, 668 117, 968	270	.27			1.9
FlintGrand Rapids	145, 947	66	33			
Minnesota:	i .	1	1	1 -		1
Duluth	106, 289		.	_ 4		
Minneapolis	409, 125		.	- 67	. 16	
St. Paul	241, 891			- 51	. 21	
Kansas City	351, 819	259	. 74	198	. 56	1.3
St. Louis	803, 853	24	. 03		. 01	24
Nebraska:		i	l	1 .		i
Omaha	204, 382			- 1	.00	
New Jersey: Camden	124, 157	15	. 12	10	.08	1.5
Elizabeth	103, 947			. 15	.14	1.0
Jersey City	309, 034			. 82	. 27	
Newark	438, 699	1, 462	3. 33	72	. 16	20.3
Paterson	139, 579 127, 390	136 70	. 97	28 34	.20	4.9 2.1
New York:	121, 550	10		34	1 .21	2.1
Albany	117, 375	1, 058	9. 01	32	. 27	33. 1
Buffalo	536, 718	135	. 25	45	. 08	3.0
New York	5, 927, 625 317, 867	16, 061	2. 71	1, 158	. 20	13.9
Rochester Syracuse Syracuse	184, 511	43 32	. 14	23 20	.07	1.9 1.6
Utica	103, 457	10	. 10	1 0		1.0
Yonkers	107, 520	8	. 07	6	. 06	1.3
Ohio:	1,000,425	40		١	1	
Akron Cincinnati	1 208, 435 406, 312	46	. 22	21 230	. 10	2.2
Cleveland	888, 519	729	. 82	130	. 15	5. 6
Columbus	261, 082	436	1. 67	156	.60	2.8
Dayton	165, 530			69	. 42	[
ToledoYoungstown	268, 338 1 132, 358			57 40	. 21	
Oklahoma:	102,000			1		
Oklahoma	101, 150			43	. 43	
Tulsa	102, 018			15	. 15	
Oregon: Portland	273, 621			50	. 18	I
Pennsylvania:	213, 021			30	. 10	
Erie	112, 571			77	. 68	l
Philadelphia	1, 922, 788			425	. 22	
Pittsburgh	112, 571 1, 922, 788 613, 442 110, 917			233	. 38	
Reading Scranton.	140, 636			50 22	. 45 . 16	
Rhode Island:	110,000				.10	
Providence	242, 378			22	. 09	
Cennessee:		1		1		
Memphis	170, 067			99	. 58	
Nashville	121, 128			130	1.07	
Dallas	177, 274			83	. 47	
Fort Worth	143, 821			21	. 15	
Houston				21	. 14	
San Antonio	184, 727			22	. 12	
Salt Lake City	126, 241	l		24	. 19	-
'irginia:	,	· · · · · · · · · · · · · · · · · · ·				
Richmond	181, 044			52	. 29	
Vashington:	1	İ				
Seattle Spokane	1 315, 685   104, 573			63 20	. 20	
Tacoma.	104, 573			13	. 19 . 13	
Visconsin:						
Milwaukee	484, 595	163	. 34	29	. 06	5. 6
77 cities	29, 985, 670			6, 206	. 21	
	_0,000,010	·		0, 200		

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

## LETHARGIC ENCEPHALITIS.

City.	Cases reported, 1923.	Deaths regis- tered, 1923	City.	Cases reported 1923.	Deaths regis- tered, 1923.
Alabama:		] .	New Jersey:		
Birmingham California:	. 5	0	Camden Elizabeth	-	- 6
Los Angeles			Jersey City	. 6	
Oakland		20	Newark	. 40	
San Francisco Colorado:	34	20	Paterson Trenton	4	12
Denver		. 5	New York:	1	1 *
Connecticut:	7	7	AlbanyBuffalo	·	. 5
Bridgeport		5	New York	923	349
New Haven	10	10	Rochester	. 9	7
Delaware:			Syracuse	. 5	3
Wilmington		. 3	UticaYonkers	1	0
Washington	22		Ohio:	l	1
Florida:			Akron	5	l 0
Jacksonville Illinois:		3	Cincinnati Cleveland	10 25	.2
Chicago	70	19	Columbus	25	15 22
Indiana:	l ''		Dayton		5
Indianapolis		2	Toledo		6
lowa: Des Moines		6	YoungstownOklahoma:	1	0
Louisiana:		ľ	Tulsa		1
New Orleans	8	5	Oregon:		_
Maryland: Baltimore	83	36	Portland	35	22
Massachusetts:	00	. 30	Eric	3	2
Boston	58	24	Philadelphia	116	53
Cambridge	10	3	Pittsburgh		9
Fall River Lowell	4 2	2 1	Reading Scranton		2
Lynn	7	i	Rhode Island:		0
New Bedford	5	1	Providence	9	8
Springfield	6 26	2 8	Tennessee:		
Aichigan:	20	°	Memphis	2	2
Detroit	40	27	Houston		7
Flint Grand Rapids	8		San Antonio		2
finnesota:		0	Utah: Salt Lake City	1	3
Duluth		10	Virginia:		3
Minneapolis		23	Norfolk	7	7
St. Paul		44	Richmond	2	2
Kansas City	16	14	Washington: Seattle	14	
St. Louis		25	Spokane	26	24
ebraska:			Tacoma		12
Omaha	:	1	Wisconsin: Milwaukee	.	
	1	ľ	MIIIWaukee	7	4

## MALARIA.

City.	Estimated population July 1, 1923.		Cases per 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death registered.
Alabama: Birmingham	195, 901	213	1. 09	7	0.04	30, 4
California:  Los Angeles  Oakland	666, 853 240, 086	12 5	. 02 . 02	3	.00	4.0
San Francisco	539, 038	5	. 01	ĭ	.00	5. 0
Bridgeport	1 143, 555 1 138, 036 172, 967	1 6 6	. 01 . 04 . 03	0		

<sup>&</sup>lt;sup>1</sup>Population Jan. 1, 1920.

#### MALARIA—Continued.

City.	Estimated population July 1, 1923	Cases reported, 1923.	Cases per 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Florida:						
Jacksonville	100, 046	90	.90	5	. 05	18.0
Georgia: Atlanta	222, 963		.	. 2	. 01	
Illinois: Chicago	2, 886, 121	1	1	10	.00	1
Vontueky:	1 ' '					
Louisville	257, 671		·	. 2	. 01	
New Orleans	404, 575	108	. 27	7	. 02	15.4
Maryland: Baltimore	773, 580	33	.04	1 1	.00	33.0
Massachusetts:	1	1	1	1	٠.~	35.0
BestonCambridge	770, 400 111, 444	11 2	.01	0		
Lowell	115, 089		. 02	li	. 01	
Springfield	144, 227	1	. 01	0		
Michigan: Detroit	995, 668	11	.01	0		
Missouri: Kansas City	251 010	4	0.		01	
St. Louis	351, 819 803, 853	4	.01	3 7	.01	1. 3
New Jersey:	· ·			i :		
Jersey City Newark	309, 034 438, 699	1 11	.00	0		
Paterson	139, 579	8	.06	l ŏ		
Trenton	127, 390	1	. 01	Ŏ		
New York: New York	5, 927, 625	52	.01	3	.00	17. 3
Ohio:						11.0
AkronOklahoma:	<sup>1</sup> 208, 435	3	. 01	0		
Oklahoma	101, 150			1	. 01	
Pennsylvania: Philadelphia	1 000 700	11	. 01	2		
Rhode Island:	1, 922, 788	11	.01	2	.00	5. 5
Providence	242, 378			1	. 00	
Tennessee: Memphis	170, 067	450	2.65	22	. 13	20. 5
Nashville	121, 128	2	. 02	0		
Texas: Dallas	177, 274	14	.08	12	. 07	1. 2
Houston	154, 970			19	. 12	1. 2
San Antonio	184, 727			8	. 04	
Virginia: Norfolk	159, 089	4	.03	0	-	
Richmond	181, 044	2	. 01	ŏ		
36 cities	20, 599, 269			117	01	
	au, 000, a00			**'	01	

#### MEASLES.

		Estimated expectancy.		1923.					
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.	
Alabama: Birmingham California:	195, 901	7	275	2, 481	12. 66	30	0. 15	1. 2	
Los Angeles Oakland	666, 853 240, 086	5 7	1, 606 445	3, 688 1, 797	5. 53 7. 48	21 13	.03	.6 .7	
San Francisco Colorado:	539, 038	. 6	1, 466	3,908	7. 25	21	. 04	. 5	
Denver	272, 031	6	1,593	4, 052	14. 90	36	. 13	.9	

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

#### MEASLES-Continued.

		Estimated expectancy.			1923.					
City.	Estimated population July 1, 1923.	Num- ber of years.		Cases re- ported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatalities per		
Connecticut:										
Bridgeport	1 143, 555	6	358	916		35	. 24	3.8		
Hartford New Haven	1 138, 036 172, 967	7 5	573 493	67 957	5. 53	1 5	.01	1.5 .5		
Delaware: Wilmington	117, 728	6	154	1,961	16.66	32	.27	i		
District of Columbia:	1		1	11	1	f	l	1.6		
Washington	1 437, 571	. 6	1,979	7, 610	17. 39	34	.08	.4		
Jacksonville Georgia:	100, 046	3	382	1, 181	11.80	6	. 06	.5		
Atlanta	222, 963	5	372	743	3. 33	37	. 17	5, 0		
Illinois: Chicago	2, 886, 121	7	9, 025	15, 168	5. 26	206	. 07	1.4		
Indiana: Indianapolis	342,718	4	1,016	6,750						
Iowa:		_	1	1	19. 70	6	. 02	.1		
Des Moines Kansas:	140, 923	3	57	54	.38	4	. 03	7.4		
Kansas City Kentucky:	115, 781	6	458	2, 414	20.85	2	. 02	.1		
Louisville	257, 671	6	507	824	3. 20	1	.00	.1		
Louisiana: New Orleans	404, 575	5	589	411	1. 02	33	. 08			
Maryland:						· 1	- 1	8. 0		
Baltimore Massachusetts:	773, 580	6	3, 797	8, 289	10. 72	56	. 07	.7		
Boston	770, 400 111, 444	7 6	4, 974 1, 035	5, 023 1, 243	6. 52 11. 15	57	. 07	1. 1		
Cambridge Fall River Lowell	120, 912	7 7	606	537	4. 44	27	. 06	. 6 5. 0		
	115, 089 102, 683	6	501 309	1,324 1,113	11. 50 10. 84	12 12	. 10 . 12	. 9 1. 1		
New Bedford Springfield Worcester	102, 683 130, 072 144, 227	6 7 5	439 529	1,804	13.87	4	. 03	.2		
Worcester	191, 927	5	322	121 921	. 84 4. 80	0	.03	.7		
lichigan: Detroit	995, 668	6	2,020	4, 597	4 62	85	. 09	1.8		
Flint Grand Rapids	117, 968 145, 947	5	320 327	1,032	4. 62 8. 75	4	. 03	.4		
Innesota:		- 1		3, 101	21. 25	3	.02	.1		
DuluthMinneapolis	106, 289 409, 125	6	305 863	1,751	16. 47	51	. 02	.1		
St. Paul	241, 891	5 5	821	4,897	20. 24	44	. 18			
Kansas City	351, 819	7	1, 278	3, 330	9. 47	52	. 15	1.6		
St. Louis ebraska:	803, 853	4	1, 148	11,029	13. 72	. 55	. 07	.5		
Omahaew Jersey:	204, 382	7	611	154	. 75	0 -	-			
Camden.	124, 157	6	248	1, 464	11. 79	22	. 18	1. 5		
Jersey City	103, 947 309, 034	5 7	351 1,021	996 487	9. 58 1. 58	11 16	. 11	1. 1 3. 3		
Newark Paterson	438, 699	5 7 7 5 7	3, 956	4,680	10. 67	41	. 09	.9		
Camden Elizabeth Jersey City Nowark Paterson Trenton	139, 579 127, 390	7	877 340	1, 051 138	7. 53 1. 08	8	.06	$\frac{.8}{2.2}$		
Albany	117, 375	6	658	1, 438	12, 25	7	. 06			
Albany	536, 718 5, 927, 625 317, 867		1,044	5, 527	10.30	71	. 13	1.3		
Rochester	317, 867	7 7	24, 183 1, 561	13, 999 1, 826	2. 36 5. 74	245 31	. 04	1.8 1.7		
Rochester Syracuse Utica Yonkers	184, 511 103. 457	5 7	641 755	3, 371 1, 181	18. 27 11. 42	45	. 24	1, 3		
Yonkers	107. 520	6	588	337	3. 13	0	. 03	.9		
	1 208, 435	6	1,017	939	4. 51	8	. 04	.9		
Akron Cincinnati Cleveland	406, 312 888, 519	6	1,061 2,656	1, 410 6, 411	3. 47 7. 22	19	. 05	1.3		
Columbus Dayton	261, 082	7 7 5	991	2, 173	8. 32	29 28	. 03 . 11	. 5 1. 3		
Toledo	165,530 268, 338	6	280 1, 901	480 3, 178	2.90 11.84	13 1	. 08	2.7		
Youngstown	1 132, 358	7	536	1, 140	8.61	25 27	. 20	2.4		
Population Jan. 1, 1920.										

## MEASLES-Continued.

	Estimated		nated ex-			1923.		
City.	population July 1, 1923.	Num- ber of years.	Cases.	Cases re ported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.
Oklahoma:								
Oklahoma	101, 150	5	138	306	3.03	0	l	
Tulsa	102, 018	3	113	385	3.77	4	.04	1.0
Oregon:		1 -	l	1		l	1	i
Portland	273, 621	7	1, 397	3,684	13. 46	13	. 05	.4
Pennsylvania: Erie	112, 571	7	869	1, 846	16.40	l		
Philadelphia	1, 922, 788	1 7	8, 792	7, 997	4.16	11	. 10	.6
Pittsburgh		6	4.028	7,662	12.49	223	. 12	2.8
Reading	110.917	5	519	1, 551	13.98	118 22	. 19	1.5
Scranton	140, 636	7	264	1, 118	7. 95	21	.20	1.4 1.9
Rhode Island:	110,000		201	1,110	1.85	21	. 15	1.9
Providence	242, 378	7	1,022	4, 627	19.09	120		۱
Tennessee:	272,010	•	1,022	2,021	19.09	120	.50	2.6
Memphis	170, 067	5	629	3, 634	21.37	23		۱ -
Nashville	121, 128	7	408	2,686	21. 37 22. 17	• 60	.14	.6
Texas:	121,120	•	100	4,000	22.11	1 00	. 50	. 2. 2
Dallas	177, 274	6	685	2, 029	11, 45	3		
Fort Worth	143, 821	7	. 54	2,029	.06	0	.02	.1
Houston	154, 970	5	277	22	.14			
San Antonio	184, 727	7	140	85	. 14	0		
Utah:	104, 121	•	140	00	.40	3	. 02	3. 5
Salt Lake City	126, 241	6	1.079	252	2.00			
Virginia.	120, 241		1,019	202	2.00	1	. 01	.4
Norfolk	159, 089	4	193	1.524	9, 58	3		
Richmond	181, 044	7	1, 424	4, 274	9. 58 23. 61	31	.02	. 2 . 7
Washington:	101,011	- '	1,424	4,2/4	23. 01	31	. 17	.7
Seattle	1 315, 685	7	1, 572	2, 321	7. 35	-		٠.
Spokane.	104, 573	5	479	2,880	27. 54	5	.02	.2 .1
Tacoma	101, 731	7	249	188	1.85	3	. 03	. 1
Wisconsin:	101, 731	- '	249	100	1.00	U		
Milwaukee	484, 595	5	2, 856	4, 819	9. 94	7		_
14111 M SITE CO	202, 090	0	4, 000	2,019	v. v-1	7	.01	. 1
77 cities 1	29, 735, 634		112, 542	211, 372	7, 11	2, 272	. 08	1.1
11 CIVIOS	20, 100, 004		110,042	211,3/2	·· 11	4,212	.03	1. 1
ı	1			1			i	

#### MUMPS.

			1923.							
City.	City. population repo	Cases reported, 1922.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.			
Alabama: Birmingham California:	195, 901	55	63	0. 32	0					
Los Angeles	666, 853	416	85	. 13	0					
Oakland	240, 086	17	20	.08	1	0.00	20. 0			
San Francisco Colorado:	539, 038	244	92	. 17	0					
DenverConnecticut:	272, 031	598	72	. 26	0					
Bridgeport	1 143, 555	20	52	. 36	0					
Hartford	1 138, 036	29	21	. 15	ŏ					
Delaware:	200, 000				· ·					
WilmingtonFlorida:	117, 728		11	. 09	0					
Jacksonville Georgia:	100, 046		7	. 07	0					
Atlanta	222, 963	75	100	. 45	0		<b>-</b>			

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

<sup>&</sup>lt;sup>2</sup> Minneapolis, Minn., not included.

MUMPS-Continued.

	1	<del></del>	11				
			<u> </u>		1923.		
City.	Estimated population July 1, 1923	reported,	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Illinois:	2, 886, 121	933	1,868	0. 65	1	0.00	1,868.0
Indiana: Indianapolis	342, 718	155	758	2, 21	0		,,,,,,
Iowa: Des Moines	140, 923		1	.01	0		
Kansas: Kansas City Kentucky:	115, 781	53	850	7. 34	1	. 01	850. <b>0</b>
Louisville	257, 671		20	. 08	0		
Baltimore	773, 580	3,005	1,300	1. 68	2	. 00	650. <b>0</b>
Boston Cambridge	770, 400 111, 444	1, 092 338	1, 624 425	2. 11 3. 81	0		
Fall River Lowell	120, 912	108	17	. 14	Ō		
Lynn	115, 089 102, 683	13 24	122 41	1.06 .40	0		
New Bedford Springfield	130, 072	19	8	. 06	0		
Worcester	144, 227 191, 927	263 9	204 259	1. 41 1. 35	0		
Michigan: Detroit	995, 668	306	896	. 90	3	.00	000 =
Flint	117, 968	72	138	1, 17	ō l	. 00	298. 7
Grand Rapids Minnesota:	145, 947	82	131	.90	0		
Duluth St. Paul	106, 289 241, 891	344	198	1.86	0		
Missouri:	ŕ	61	77	. 32	0		
Kansas City St. Louis	351, 819 803, 853	159 174	218 272	. 62 . 34	0		
Nebraska: Omaha	-			ı	- 1		
New Jersey:	204, 382	315	6	. 03	0		
Camden Elizabeth	124, 157 103, 947	55 196	37 294	. 30 2. 83	0		·
Jersey City	309, 034	4	33	.11	ŏ		·
Newark Paterson	438, 699	718	661	1. 51	0 .		
Trenton	139, 579 127, 390	61	63 20	. 45	0		
New York: Albany		- 1	1	1	1		
Buffalo	117, 375 536, 718	187 275	580 210	4. 94	0		
New York	5, 927, 625	3, 108	3, 817	. 64	4	.00	954. 2
Rochester Syracuse	317, 867 184, 511	391 294	239	1. 30	8 -		<b>-</b>
Utica	103, 457	12	179	1. 73	ŏ		
Yonkers	107, 520	199	- 98	. 91	1	. 01	98. 0
Akron	1 208, 435	46	31	. 15	ا ه		
Cincinnati Cleveland	406, 312   . 888, 519		115	.28	o J.		
Tolego	268, 338	266 13	626 17	.70	0 -		<b>-</b>
YoungstownOklahoma:	1 132, 358	7	15	iii	ŏ		
Oklahoma	101, 150		84	. 83	0 _	1	
Oregon: Portland.	273, 621	110	75	. 27	1	.00	75. 0
Pennsylvania: Erie	112, 571	97	1		- 1		10. 0
Philadelphia	1, 922, 788	889	917	. 10	0 -		<b>-</b>
Pittsburgh Reading	613, 442	511	315	. 51	0		· · · · · · · · · · · ·
Scranton	110, 917 140, 636	23 31	38 76	. 34	0		
Rhode Island: Providence			ł	. 54	-		
Tennessee:	242, 378	84	28	. 12	0		
Memphis Nashville	170, 067 121, 128	43	13	.08	0		
Texas:		32	78	. 64	0		
Dallas	177, 274 143, 821	25	140	. 79	0		
1 Population Ian 1 1990	, 044 1	T 1,	5	. 03	0 ]		

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

MUMPS-Continued.

					1923.		
City.	Estimated population July 1, 1923.	reported, 1922.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Čases reported for each death regis- tered.
Utah: Salt Lake City	126, 241	288	1, 626	12.88	0		
Virginia: Norfolk Richmond	159, 089 181, 044	13 22	3 23	. 02 . 13	0		
Washington: SeattleSpokane	<sup>1</sup> 315, 685 104, 573	794 24	139 10	. 44 . 10	0		
Tacoma Wisconsin: Milwaukee	101, 731 484, 595	26 1,600	281 116	2.76 .24	0		
69 cities	27, 852, 194		21,009	. 75	14	0.00	1, 500. 6

#### PELLAGRA.

			imated ectancy.			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported	Cases per 1,000 inhabit- ants.	Deaths regis- tered.	Deaths per 1,000 i nhabit- ants.	Cases reported for each death regis- tered.
Alabama: Birmingham California:	195, 901			22	0. 11	13	0. 07	1.7
Los Angeles Oakland San Francisco	666, 853 240, 086 539, 038	7 7 5	5 0 1	4	. 02	4 2 1	. 01 . 01 . 00	2.0
Florida: Jacksonville	100, 046	:				14	. 14	
Georgia: Atlanta Illinois:	222, 963					38	. 17	
Chicago Kentucky:	2, 886, 121					2	.00	<b>-</b>
Louisville Louisiana:	257, 671	5	2			1	. 00	<b>-</b>
New Orleans Maryland:	404, 575	7	30			20	. 05	
Baltimore Massachusetts: Boston	773, 580 770, 400	7	 5	8	. 01	5 6	. 01	1. 3
Lowell Michigan:	115, 089	7	0			1	.01	1. 3
Detroit Flint	995, 668 117, 968	<b>4</b> 6	1 0			1 1	. 00 . 01	
Minnesota: St. Paul Missouri:	241, 891	7	0			1	.00	
Kansas City St. Louis	351, 819 803, 853	6	0			1 2	.00 .00	<del>-</del>
Nebraska: Omaha New Jersey:	204, 382	.6	0			1	.00	<b>-</b>
Paterson New York:	139, 579	7	0			1	. 01	
New York Oklahoma:	5, 927, 625	3	5			7	.00	<b>-</b>
Oklahoma Tulsa Pennsylvania:	101, 150 102, 018	2 2	5 2			6 2	. 06 . 02	
Philadelphia Rhode Island:	1, 922, 788	5	2			8	.00	
Providence	242, 378	7 ]	0			1	.00	

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

## PELLAGRA—Continued.

			imated ctancy.			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases re- ported.	Cases per 1,000 inhabit- ants.	Deaths regis- tered.	Deaths per 1,000 inhabit- ants.	Cases reported for each death regis- tered.
Tennessee: Memphis Nashville	170, 067 121, 128			19	.11	13 10	.08	1.5
Texas: Dallas	177, 274 143, 821	5	27	13	. 09	17 0	. 10	
HoustonSan AntonioVirginia:	154, 970 184, 727					17 5	.11 .03	
NorfolkRichmond	159, 089 181, 044					6 4	.04	
32 Cities	19, 615, 562					211	.01	

#### PNEUMONIA.

City.	Estimated population July 1, 1923	reported,	Cases per 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Alabama:						
Birmingham	195, 901	630	3, 22	361	1.84	1.7
California:	•				2.01	1
Los Angeles	666, 853	1,909	2.86	775	1. 16	2.5
Oakland San Francisco		276	1. 15	205	. 85	1.3
Colorado:	539, 038	1 612	1 1. 14	669	1. 24	
Denver	272, 031	ĺ		400		
Connecticut:	2/2,031			488	1. 79	<b>-</b>
Bridgeport	2 143, 555	1 177	1 1. 23	211	1. 47	
Hartford	2 138, 036	1 130	1.94	176	1.55	1.7
New Haven	172, 967	1 294	1 1.70	267	1. 54	1.7
Delaware:					A. 02	
Wilmington	117, 728		l	208	1, 77	
District of Columbia:	'					
Washington	<sup>2</sup> 437, 571			1, 015	2.32	
Florida:						
Jacksonville	100, 046		!	114	1. 14	
Georgia:				ŀ		
AtlantaIllinois:	222, 963	702	3. 15	643	2.88	1, 1
Chicago	0 000 101				1	
Indiana:	2, 886, 121	11, 628	4.03	3, 745	1. 30	3. 1
Indianapolis	342, 718		1			
Iowa:	342, /18			578	1.69	
Des Moines	140, 923	1		166	1. 18	
Kansas:	110, 520			100	1. 18	
Kansas City	115, 781	255	. 2.20	185	1.60	1.4
Kentucky:	220,102			100	1.00	1. 4
Louisville	257, 671	760	2.95	547	2.12	1.4
Louisiana:	,			٠ ا		4. 4
New Orleans.	404, 575	689	1. 70	623	1, 54	1.1
Maryland:						
Baltimore	773, 580	2, 910	3. 76	1, 532	1.98	1.9
			1			
Boston Cambridge	770, 400	1 1, 330	1 1. 73	1, 312		
Fall River	111, 444	1 197	1 1. 77	76		
Lowell	120, 912	1 97	1.80	134		
Lynn	115, 089	1 136	1 1. 18	265	2. 30	
New Bedford	102, 683	1 156	1 1. 52	61		
Springfield	130, 072 144, 227	1 215	1.75	88		
Worcester	191, 927	1 285	1 1. 49 1 1. 48	70		
	101, 021	* 200	· 1. 45	301 ]	1. 57 ].	

<sup>&</sup>lt;sup>1</sup> Lobar pneumonia only.

Population Jan. 1, 1920.

#### PNEUMONIA-Continued.

City.	Estimated population July 1, 1923	reported	Cases per 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Michigan: Detroit	995, 668	3, 547	3.50	1,949	1.90	1.8
FlintGrand Rapids	117, 968 145, 947	228 340	1. 93 2. 33			1.8 1.1 2 1.8
Minnesota:	1	340	2 34	1		
Duluth Minnespolis	106, 289 409, 125		-	102		
St. Paul	241, 891			336 307	1. 27	,
Missouri:	251 010	860			i	1
Kansas City St. Louis	351, 819 803, 853	800	2.44	627	1. 78 2. 17	1.4
Nebraska:	j				1	
Omaha New Jersey:	204, 382		-	- 287	1.40	
Camden	124, 157 103, 947		-	321	2. 59	
Elizabeth Jersey City City	103, 947 309, 034		-	- 154 - 517	1. 48 1. 67	
Newark	438, 699	2, 531	5. 77	547	1. 25	4.6
Paterson Trenton	139, 579 127, 390	293	2. 30	- 230 173	1. 65	
New York:	I	293	1	1	1. 36	1.7
Albany	117, 375 536, 718	618	5. 27 2. 74	176	1. 50	3.5
Buffalo New York	5, 927, 625	1, 470 15, 952	2.74	613 8, 231	1. 14 1. 39	
Rochester	317, 867	977	3. 07	235	. 74	4.2
Syracuse Yonkers	184, 511 107, 520	614	3, 33	251 121	1. 36	2.4
Ohio:	107, 520			- 121	1. 13	
Akron	<sup>2</sup> 208, 435	246	1. 18	231	1. 11	1. 1
Cincinnati	406, 312 888, 519	2, 191	2.47	- 619 1, 181	1. 52 1. 33	
Columbus	261. 082			363	1. 39	
Dayton	165, 530			190 282	1. 15	
Youngstown	165, 530 268, 338 2 132, 358			204	1. 05 1. 54	
Oklahoma:			l	1	1	
Oklahoma Tulsa	101, 150 102, 018			176 140	1. 74 1. 37	
Oregon:	٠ ١			1	i	
Portland Pennsylvania:	273, 621			278	1. 02	
Erie	112, 571			148	1.31	
Philadelphia Pittsburgh	1, 922, 788	4, 287	2. 23	3, 260	1. 70	1.3
Reading	112, 571 1, 922, 788 613, 442 110, 917	<b></b>		2, 297 143	3. 74 1. 29	
Scranton	140, 636			223	1. 59	
Rhode Island: Providence	242, 378		1	377	1. 56	
Tennessee:	, i			1		
Memphis Nashville	170, 067 121, 128			491 231	2.89	
Texas:	121, 120			231	1. 91	
Dallas Fort Worth	177, 274			193	1. 09	
Houston	143, 821 154, 970	173	1. 20	171	1. 10	
San Antonio	154, 970 184, 727			227	1. 23	
Utah: Salt Lake City	126, 241			130	1. 03	l
Virginia:					1. 03	
Norfolk	159, 089			204	1. 28	
Washington:	181, 044	·		246	1. 36	
Seattle	2 315, 685			213	. 67	
Spokane Tacoma	104, 573 101, 731	115	1. 10	95 101	. 91 . 99	1. 2
Wisconsin:	1					
Milwaukee	484, 595			670	1. 38	
75 cities 3	29, 759, 445			45, 051	1. 51	

<sup>&</sup>lt;sup>2</sup> Population Jan. 1, 1920. <sup>3</sup> Hartford, Conn., and Fort Worth, Tex., not included.

# Reported Prevalence for the Year 1923—Continued, POLIOMYELITIS.

			nated ex- tancy.			1923.		
City.	Estimated population July 1, 1923.	Number of years.	Cases.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.
Alabama: Birmingham	. 195, 901	7	4	6	0.03	3	0.02	50.0
California: Los Angeles	666, 853	7	15	70	. 10	6	.01	8.6
Oakland	240, 086	6	2	3	. 01	0		
San Francisco Colorado:	539, 038	7	6	4	. 01	1	.00	25.0
Denver	272, 031	6	2	5	.02	0		
Bridgeport	1 143, 555	5	4	7	. 05	0		İ
Hartford	1 138, 036	5	2	6	. 04			
New Haven District of Columbia:	172, 967	7	6	8	. 05	0		
Washington	1 437, 571	7	6	19	. 04	1	.00	5.3
Florida: Jacksonville	100, 046	4	1	2	. 02	1 0		
Georgia:	1 1	- 1		"	. 02	1		
AtlantaIllinois:	222, 963	7	1		<del>-</del> -	1	.00	
Chicago	2, 886, 121	5	94	86	. 03	4	.00	4.7
Indiana: Indianapolis	342, 718	7	3	4	. 01	2		
Iowa:		I	1	· •	.01	1	.01	50. 0
Des Moines Kentucky:	140, 923	4	4			5	.04	
Louisville	257, 671	6	2			3	. 01	
Louisiana: New Orleans	404, 575	7	4	10	. 02	ا ا		20.4
Maryland:		- 1	7	10	. 02	2	.00	<b>20.0</b>
Baltimore	773, 580	4	20	11	. 01	1	.00	9.1
Boston	770, 400	5	31	50	. 06	10	.01	20.0
Cambridge Fall River	111, 444 120, 912	6	4	3	. 03	0		
Lowell	115, 089	7 7	8	36	. 05 . 31	2 5	.02	33. 3 13. 9
Lynn	102, 683	4	5	4	. 04	1	.01	25. 0
New BedfordSpringfield	130, 072 144, 227	6	5	8	.02	0	-	· •
Worcester	191, 927	6	5	10	.05	7	. 04	70.0
Michigan: Detroit	995, 668	7	,,	ا م				
Flint	117, 968	5	17 10	9 2	. 01 . 02	6	. 01	66. 7
Grand Rapids	145, 947	7	4	4	. 03	3	. 02	75.0
Minneapolis	409, 125	5	6	4	. 01	2	.00	50.0
St. Paul	241, 891	5	5	6	.02	ī	:00	16.7
Kansas City	351, 819	5	3	3	.01	0		
St. Louis	803, 853	5	16	10	.01	2	.00	20.0
Omaha	204, 382	6	4	58	.28	6	. 03	10.3
ew Jersey:		}	. 11		.20	١٩	.03	10. 3
Camden Elizabeth	124, 157 103, 947	7 7	1 2	1	. 01	0		
Jer ey City	309, 034	6	4	4	.01	1	. 01	
Newark Paterson	438, 699 1 9, 579	6	20	48	. 11	4	. 01	8. 3
Trenton	127, 390	6	6 2	6	.04	0 -		
ew York: Albany			il		1			• • • • • • •
Buraio	117, 375 536, 718	6 7	1 7	6 11	. 05	0  -	.00	18.2
New York Rochester	5, 927, 625	6	213	585	. 10	54	.01	9. 2
Syracuse	317, 867 184, 511	6 6 7	6 5	8		2	.01	12.5
Utica	103, 457	6	ĭ	5	.04	11	.01	20.0
	107, 520	7	3	7	.07	i	.01	14.3
Yonkers				1				
io: Akron	1 208, 435	5	5	2 1	.01	ا م		
io: Akron	406, 312	5 5	5	2 2	. 01 . 00	8 -		
io: Akron		5 5 7 6	5 5 23 4	2 2 13	. 01 . 00 . 01		.00	7.7

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

## POLIOMYELITIS—Continued

			Estimated ex- pectancy.		1923.						
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.			
Oregon: Portland	273, 621	7	. 3	1	.00	0					
Pennsylvania:	110	_	_			_		1			
Erie	112, 571	7 7	5	2	. 02	0					
Philadelphia	1,922,788	7	22 21	18 10	.01	4	.00	22. 2			
Pittsburgh	613, 442 110, 917	7	1		.02	2	.00	20.0			
Reading	110,917	' ' '	1	1	.01	U					
Rhode Island: Providence	242, 378	5	6	4	. 02	0					
Tennessee:		_	_	_		_	l	1			
Memphis	170, 067	5	1	3	. 02	0					
Nashville	121, 128	6	1			1	. 01				
Texas:				_		_					
Dallas	177, 274	7	4	3	. 02	0					
Fort Worth	143, 821	6	<u> </u>	1	. 01						
Houston	154, 970	7 7	1	4	. 03 . 01	0					
	184, 727	' 1	- 1	1	.01	0					
Utah: Salt Lake City	126, 241	5	3	1 1	. 01						
	120, 241	9 1	9	1 1	. 01						
Virginia: Richmond	181, 044	7	5	1 1	. 01	0					
Washington:	101, 011	'	۱,	1 1	.01	v					
Spokane	104, 573	7	1			1	. 01				
Tacoma	101, 731	7	î l	2	. 02	î	.01	50.0			
Wisconsin:	101, 101	٠,	*	"	.02	- 1	.01	30.0			
Milwaukee	484, 595	5	15	20	. 04	2	.00	10. 0			

#### RABIES IN ANIMALS.

City.	Cases reported, 1923.	City.	Cases reported, 1923.
California:  Los Angeles Oakland District of Columbia: Washington Florida: Jacksonville Illinois: Chicago Kentucky: Louisville Massachusetts: Boston Michigan: Detroit. Grand Rapids.	591 2 43 12 57 40 39 33	Missouri: Kansas City New Jersey: Elizabeth Jersey City Newark Ohio: Cleveland Columbus Tennessee: Memphis Texas: Dallas Houston	92 8 30 21 45 2 74 29 199
	RABIES		

California: Los Angeles Massachusetts: Boston Missouri: St. Louis	6 1 2	New York: New York Texas: Houston	3
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# Reported Prevalence for the Year 1923—Continued. SCARLET FEVER.

			nated ex- tancy.			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.
Alabama: Birmingham California:	195, 901	7	182	105	0. 54	2	0.01	1.9
Los Angeles	666, 853	7	504	1, 603	2.40	16	. 02	1.0
OaklandSan Francisco	240, 086 539, 038	7 7	295 569	397 897	1. 65 1. 66	3 12	. 01	1.3
Colorado:			1	11 1		1	. 02	1.3
Denver Connecticut:	272, 031	7	359	705	2. 59	3	.01	.4
Bridgeport	1 143, 555 1 138, 036 172, 967	7	139 170	421 240	2. 93	2	.01	.5
Hartford New Haven	172, 967	7	207	288	1. 74 1. 67	1 6	.01	.4 2.1
Delaware: Wilmington	117, 728	5	162	433	3. 68	10		
District of Columbia:				1 1			. 08	2.3
Washington	1 437, 571	7	665	998	2. 28	11	. 03	1.1
Jacksonville	100, 046	.4	27	11	.11	1	. 01	9.1
Georgia: Atlanta	222, 963	7	183	212	. 95	2	. 01	
Illinois: Chicago	2, 886, 121	4	3, 929	1				.9
Indiana:	· · · ·	- 1		3, 529	1. 22	84	. 03	2.4
Indianapolis	342, 718	6	649	167	. 49	0		
Des Moines	140, 923	5	200	942	6.68	16	. 11	1.7
Kansas: Kansas City	115, 781	6	200	210	1.81	0	- 1	
Kentucky: Louisville	257, 671	7	153	- 1				
ouisiana:	, I		11	107	. 42	0		· · · · · · · · · · · · · · · · · · ·
New Orleans	404, 575	7	159	190	. 47	4	. 01	2.1
Baltimore	773, 580	7	1, 065	2, 238	2.89	23	. 03	1.0
fassachusetts: Boston	770, 400	7	1,748	3, 211	4. 17	58	!	
Cambridge Fall River	111, 444 120, 912 115, 089	6	205	508	4. 56	3	. 08	1.8 .6
Lowell	115, 089	7 7	110 102	222 227	1.84 1.97	4	. 03	1.8
Lvnn	102, 683	6	187	260	2. 53	4	. 03	1.8 .4
New Bedford Springfield	130, 072 144, 227	7 7	161	.78	. 60	3	. 02	3.8
Worcester	191, 927	7	240 377	330 692	2. 29 3. 61	8	.02	.9 .9
lichigan: Detroit	995, 668	7	2, 955	- 1	l	- 1	- 1	
Flint	117, 968	5	326	4, 162 385	4. 18 3. 26	86 8	. 09	2. 1 2. 1
Grand Rapids	145, 947	7	297	428	2. 93	3	. 02	.7
Duluth	106, 289	7	216	409	3.85			
Minneapolis St. Paul	409, 125 241, 891	7 7	713 526	1, 909 1, 432	4. 67	33	. 08	1.7
issouri:	1	- 1	H		5. 92	29	. 12	2. 0
Kansas City St. Louis	351, 819 803, 853	5 7	364 1, 175	500 1, 390	1. 42 1. 73	8	. 02	1.6
ebraska: Omaha			. 1			25	. 03	1.8
ew Jersey:	204, 382	7	412	178	. 87	1	.00	.6
CamdenElizabeth	124, 157 103, 947	7	128	78	. 63	0		
Elizabeth Jersey City Newark	309, 034	7	268 495	244 420	2. 35 1. 36	10	. 02	.8 2.4
Newark Paterson	438, 699	5	757	596	1. 36	5	.01	.8
Trenton	139, 579 127, 390	7 5 7 7	124 94	213 280	1. 53 2. 20	4	. 03	1.9
ew York: Albany		- 1	- 1	- 1	1	4	. 03	1.4
Butfalo	117, 375 536, 718	7 7	118 651	437 1, 227	3. 72 2. 29	5 28	. 04	1. 1 2. 3
New York Rochester	5, 927, 625	7 7	6, 260	8, 237	1. 39	107	. 05 . 02	1.3
Syracuse.	317, 867 184, 511	6 7	357 564	227 838	. 71 4. 54	5	. 02	2. 2 1. 0
Utica	103, 457	6 7	90	316	3. 05	8 3 5	.04	. 9
Yonkers	107, 520	7 ]	207	278	2. 59	اة	.05	1.8

<sup>&</sup>lt;sup>1</sup>Population Jan. 1, 1920

## SCARLET FEVER-Continued.

			Estimated expectancy.		. 1923.						
City. por	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.			
Ohio:	1 208, 435	6	427	328	1. 57	19	0.09	5.8			
Cincinnati	406, 312	7	411	596	1. 47	18	. 04	3.0			
Cleveland	888, 519	7	1,417	3,653	4. 11	58	. 07	1.6			
Columbus	261, 082	7	403	341	1. 31	4	.02	1.2			
Dayton	165, 530	7	236	440	2. 66	7	.04	1.6			
Toledo	268, 338	6	491	1, 267	4. 72	17	. 06	1.3			
Youngstown	1 132, 358	7	246	395	2. 98	23	. 17	5.8			
Oklahoma:		_				١					
Oklahoma	101, 150	6	124	146	1. 44	1	. 01	.7			
Tulsa	102, 018	3	63	70	. 69	0					
Oregon:	072 001	-	071	040		١.	00				
Portland	273, 621	7	371	246	. 90	1	.00	.4			
Pennsylvania:	112, 571	7	152	355	9 15	8	. 07				
Erie Philadelphia	1, 922, 788	6	2, 498	2, 233	3. 15 1. 16	34	.02	2.3 1.5			
	613, 442	7	1, 030	1,350	2. 20	113	. 18	8.4			
Pittsburgh	110, 917	7	1,030	1, 350	. 42	113	.01	2.1			
Scranton	140, 636	7	171	54	. 38	1	.01	1.9			
Rhode Island:	140,000	'	171	J 74			.01	1. 9			
Providence	242, 378	7	423	696	2, 87	4	. 02	.6			
Tennessee:	212,010	' '	120	000	2.01	•	.02	٠. ١			
Memphis	170, 067	6	184	161	. 95	3	. 02	1.9			
Memphis	121, 128	7	122	98	. 81	3	. 02	3. ĭ			
Texas:	,	,		"		ŭ		0			
Dallas	177, 274	7	97	165	. 93	2	. 01	1.2			
Fort Worth	143, 821	7	57	65	. 45	1	. 01	1.5			
Houston	154, 970	7	42	105	. 68	0					
San Antonio	184, 727	6	31	32	. 17	0					
Utah:											
Salt Lake City	126, 241	6	257	67	. 53	2	. 02	3.0			
Virginia:		_				_					
Norfolk	159, 089	5	82	82	. 52	1	. 01	1. 2			
Richmond	181, 044	7	229	238	1.31	1	. 01	. 4			
Washington:		7	204	امعما			****				
Seattle	1 315, 685	7	394 171	454 317	1. 44 3. 03	6 3	.02	1.3			
SpokaneTacoma	104, 573 101, 731	7	108	338	3. 32	5	. 03 . 05	. 9 1. 5			
Wisconsin:	101, 131	'	100	990	0. 02	9	. 00	1. 3			
Milwaukee	484, 595	7	1, 322	4, 973	10. 26	71	. 15	1.4			
MAN WAUNCE	101,000		1,000	2, 0,0	10. 20						
77 cities 2	30, 038, 470		41, 471	62, 308	2.07	1,064	. 04	1.7			
	, 000, -10		,	52,555		-,		•			

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920. <sup>2</sup> Duluth, Minn., not included.

## SEPTIC SORE THROAT.

City.	Estimated population July 1, 1923	reported	Cases per , 1,000 inhab- itants.	Deaths regis- tered, 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
California:						
Oakland	240, 086	1	.l	. 2	0.01	
San Francisco	539, 038		.	.  21	.04	
Connecticut:		ł	1	l		
Bridgeport	1 143, 555	3		2	.01	1.1
Hartford	1 138, 036	2			.	
New Haven	172, 967	2	.01	1	.01	2.0
Illinois:	2, 886, 121	107	1 04	۱	١	Ī .
Chicago	2, 000, 121	107	.04	24	. 01	4. 5
Des Moines	140, 923	i	1	5	.04	i
Maryland:	110,000		-	1	.02	
Baltimore	773, 580	20	.03		1	
Massachusetts:	110,000		1		1	
Boston.	770, 400	42	.05	10	. 01	4.2
Cambridge	111, 444	7	.06	Ō		7.4
Fall River	120, 912	8	.07			
Lowell	115, 089	4	.03	2	. 02	2.0
Lynn	102, 683	2	. 02	0		
New Bedford	130, 072	4	.03	1	. 01	4.0
Springfield	144, 227	2	.01	1	. 01	2.0
Worcester Michigan:	191, 927	1	.00	0		
Detroit	995, 668	3	.00	0		
Flint	117, 968	4	.03	U		
Minnesota:	111, 500	-	.03			
Minneapolis	409, 125			5	. 01	
New Jersey:	20., 120			·	.01	
Newark	438, 699			12	.03	
New York:	·			1		<b>-</b>
Albany	117, 375	1	.01	0 !		
New York	5, 927, 625			46	. 01	
Rochester	317,867			1	.00	
Ohio:	1 000 407			_		
Akron	1 208, 435	2	.01	0		
Oklahoma:	888, 519	616	. 69	0		
Tulsa	102, 018		1	2		
Oregon:	102, 010			2	.02	
Portland	273, 621	- 1		4	. 01	
Texas:	, 022			*	.01	
Dallas	177, 274	3	. 02	0	į	
Houston	154, 970			3	.02	· · · · · · · · · · · · · · · · · · ·
				- 1		

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

## SMALLPOX.

		Estin pec	nated ex-			1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.
Alabama: Birmingham	195, 901	4	21	18	0.09	0		
Colifornia:	000 000					l		
Los Angeles Oakland San Francisco	666, 853 240, 086 539, 038	7 5 4	114 37 77	766 40 29	1. 15 . 17 . 05	0		
Colorado: Denver Connecticut:	272, 031			45	. 17	13	0.05	28. 9
New Haven	1 143, 555 172, 967	7 7	1 0	8 4	. 06 . 02	1 0	. 01	12. 5
Delaware: Wilmington District of Columbia:	117, 728	6	0	1	. 01	. 0		
Washington Florida:	1 437, 571	. 6	47	67	. 15	0		
Jacksonville Georgia:	100, 046	3	17	40	: 40	. 0		
AtlantaIllinois:	222, 963	5	88	541	2, 43	0		
('hicago Indiana:	2, 886, 121	4	99	67	. 02	1	.00	1. 5
Indianapolis lowa: Des Moines	342, 718 140, 923	5	187	173 70	. 50	0		
Kansas: Kansas City	115, 781	3	70	5	. 50	. 0		
Kentucky: Louisville	257, 671	7	31	3	.01	0		
Louisiana: New Orleans	404, 575			12	. 03	0		
Maryland: • Baltimore	773, 580	7	18	7	. 01	0		
Massachusetts: New Bedford Michigan:	130, 072	7	0	1	. 01	0		<b>-</b>
Detroit	995, 668 117, 968		23	256 19	. 26 . 16	0	. 03	
Grand Rapids	145, 947	3 7	39	73	. 50	ō	. 03	21. 1
Duluth	106, 289 409, 125	3	40	240 191	2. 26 . 47	0		
St. Paul Missouri:	241, 891	7	419	435	1. 80	ŏ		
Kansas City St. Louis	351, 819 803, 853	3	56	3 46	. 01	0		
Nebraska: Omaha	204, 382			18	. 09	0		
New Jersey: Elizabeth	103, 947	7	0	13	. 13	0		
Jersey City Trenton	103, 947 309, 034 127, 390	6	1	1 8	.00	ŏ		· · · · · · · · · · · · · · · · · · ·
New York: Albany Buffalo	117, 375	7	20	27 21	. 23	0		
New York	117, 375 536, 718 5, 927, 625 317, 867	6 7 6	18 2	17 2	.00	0	. 00	9. 5
Ohio: Cincinnati	406, 312	4	52	12	. 03	0		
Cleveland	888, 519 261, 082	3 5 3 6	77 41	28 78	. 03	0		
Dayton	165, 530	3	44	60	. 36	O .		
Toledo Youngstown	268, 338 1 132, 358	5	149 105	236 96	. 88	0		
Oklahoma: Oklahoma	101, 150	3	122	76	. 75	0		
Tulsa Oregon: Portland	102, 018   273, 621	3	84	375	1. 02 1. 37	3	. 03	2. 9
1 Donulation Town 1 1000	210,021	9 1	. 02 1	313 [	2.01	v i.		

<sup>&</sup>lt;sup>1</sup> Population, Jan. 1, 1920.

## SMALLPOX-Continued.

		pec	Estimated expectancy.		1923.						
City.	Estimated population July 1, 1923.			Cases reported.	Cases per 1.000 inhab- itants.	Deaths regis- tered.	Deaths per 1.000 inhab- itants.	Fatalities per 100 cases.			
Pennsylvania:											
Erio	112, 571	5	2	2	. 02	0	l				
Philadelphia	1, 922, 788	7	12	60	. 03	0					
Pittsburgh	613, 442	5	11	19	. 03	0					
Reading Tennessee:	110, 917	7	0	1 1	. 01	0					
Memphis	170, 067	ł	1 1	42	. 25	0					
Texas:	170,007			9.2	. 25	U		• • • • • • • • • • • • • • • • • • • •			
Dallas	177, 274	1	1 1	16	. 09	0					
Fort Worth	143, 821	5	59	50	. 35	ŏ					
Houston	154, 970	7	42	7	.05	ŏ					
San Antonio	184, 727	5	15	10 !	.05	2	0. 01	••••			
Utah:				- 1		-	0.01	20.0			
Salt Lake City	126, 241	4	124	52	.41	12	. 10	23, 1			
Virginia:	· ·			]				40. 1			
Norfolk	159, 089	3	16	.7	. 04	0					
Richmond	181, 044	7	4	19	. 10	Ó					
Washington:		- 1	i	1	1			•••••••••••••••••••••••••••••••••••••••			
Seattle	<sup>1</sup> 315, 685	4	120	243	. 77	2	. 01	.8			
Spokane	104, 573	4	242	434	4. 15	1	.01	.2			
Tacoma	101, 731	3	37	66	. 65	1	. 01	1. 5			
Visconsin: Mil waukee	404 -0-	!		1	1		1				
MTH MSRIKEG	484, 595	4	113	69	. 14	0					
60 cities	26, 639, 541			5, 429	. 20	42	.00	.8			

## TUBERCULOSIS (ALL FORMS).

<del></del>						
City.	Estimated population July 1, 1923	reported	Cases per 1,000 inhab- itants	Deaths regis- tered 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
A1-1						
Alabama: Birmingham California:	195, 901	536	2.74	256	1.31	2.1
Los Angeles	666, 853	3, 195		1, 171	1, 76	2.7
Oakland.	240, 086	141	. 59	138	. 57	1.0
San Francisco	539, 038		.	666	1. 24	
Denver	272, 031		ł	575	2.11	
Connecticut:	,			9/9	2.11	
Bridgeport	1 143, 555			130	. 91	ŀ
Hartford				91	. 66	
New Haven	172, 967	<b>3</b> 13	1.81	138	. 80	2.3
Wilmington	117, 728		1 1			
District of Columbia:	111,128			82	.70	
Washington	1 437, 571	1, 301	2.97	578	1. 32	2.3
Klorida:		1,001		010	1. 32	2.3
Jacksonville	100, 046			183	1.83	
Atlanta						
Illinois:	222, 963	582	2.61	235	1.05	2.5
Chicago	2, 886, 121	10, 105	3, 50			4.0
ingiana:	2,000,121	10, 100	3. 50	2, 335	.81	4.3
Indianapolis	342, 718			333	.97	
lowa:						
Des Moines	140, 923			78	. 55	
Kansas City	115, 781	~	0.00	1		
	110, 701	257	2. 22	121	1.05	2.1
Louisville	257, 671	808	3.14	275	1.07	2.9
1 Demulation Torridore	, , , , , ,	000 1	J. 11 )	210 1	1.0/ )	2. 0

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

## Reported Prevalence for the Year 1923—Continued. TUBERCULOSIS (ALL FORMS)-Continued.

1022200			-,			
City.	Estimated population July 1, 1923	reported	Cases per 1,000 inhab- itants.	Deaths regis- tered 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Louisiana:	404, 575	1 011		909	1 71	
New Orleans	1	1,011	1		1.71	1.5
Baltimore N assachusetts:	773, 580	1,536	1.99	991	1. 28	1.5
Boston Cambridge	770, 400 111, 444	2, 02! 191	2. 62	791 122	1. 03 1. 09	2.6 1.6
Tall Divor	120, 912	249	2.06	143	1. 18	1.7
Lowell	115,089	192		100	.87	1.9
Lynn New Bedford	102, 683 130, 072	166 334		65 120	. 63 . 92	2.6 2.8
Caringfield	144, 227	194		73	.51	2.7
Worcester	191, 927	239	1. 25	145	.76	1.6
Michigan:	995, 668	2,380	2.39	1,003		2.4
Detroit Flint	117,968	2, 380 198	1.68	1,003	1.01	4.5
Grand Rapids	145, 947	236	1.62	80	. 55	2,
Minnesota:	100,000			l		ł
Duluth Minneapolis	106, 289 409, 125	1, 293	3. 16	45 337	. 42	3.8
St. Paul	241, 891	449	1.86	232	.96	1.9
Missouri:						1.
Kansas City	351, 819 803, 853	514	1.46	357	1.01	1.4
St. Louis Nebraska:	800, 800			652	.81	
Omaha	204, 382		.	95	. 46	
New Jersey:	124, 157	150	1. 23	87	. 70	1
Camden	103, 947	159 123	1. 23	50	.48	1.8 2.5
Jersey City	309, 034	573	1.85	305	.99	1.9
Newark	438, 699	1, 129	2.57	406	. 93	2.8
Paterson	139, 579 127, 590	287 209	2.06 1.64	120 132	. 86 1.04	2.4 1.6
New York:	121,000	209	1.04	132	1,04	1.0
Albany	117, 375	240	2.04	131	1. 12	1.8
Buffalo	536, 718	962	1.79	533	.99	1.8
New York	5, 927, 625 317, 867	11,750 664	1.98 2.09	5, 673 174	. 96 . 55	2. 1 3. 8
Syracuse	184, 511	318	1.72	100	. 54	3. 2
Utica	103, 457	143	1.38	89	. 86	1.6
Yonkers	107, 520	262	2.44	86	.80	3.0
Akron	1 208, 435	241	1. 16	103	. 49	2.3
Cincinnati	406, 312	977	2.40	549	1.35	1.8
Cleveland	838, 519 261, 082	1,964	2. 21	<sup>2</sup> 864 278	. 97 1. 06	2.3
Columbus Dayton	165, 530			137	.83	
Toledo	268, 338			315	1. 17 '	
Youngstown	1 132, 358			111	. 84	
Oklahoma: Tulsa	102, 018		ĺ	71	.70	
^- ·- ·						
Portland	273, 621	347	1. 27	207	. 76	1.7
Pennsylvania: Erie	112, 571	254	2. 26	86	. 76	3.0
Philadelphia	1, 922, 788	3, 674	1. 91	2, 122	1. 10	1.7
Pittsburgh	613, 442			562	. 92	
Reading Scranton	110, 917 140, 636	108	.77	54 82	. 49 . 58	1. 3
Rhode Island:	220,000	100	• • • • • • • • • • • • • • • • • • • •			2.0
Providence	242, 378			229	. 94	
Tennessee: Memphis	170, 067	623	3. 66	283	1.66	2.2
Nashville	121, 128	225	1.86	184	1. 52	1. 2
Texas:			l i	ı		
Dallas Fort Worth	177, 274 143, 821	132	.74	112 78	. 63 . 54	1. 2
Houston	154, 970			176	1.14	
San Antonio	184, 727			445	2.41	
Utah: Salt Lake City	126, 241			79		
Virginia:	' 1			1	i	
Norfolk	159, 089	277	1.74	162	1.02	1.7
Richmond	181,044		l	241	1. 33	

Population Jan. 1, 1920.
 Includes 66 deaths at Warrenville Sanatorium, outside of Cleveland.

## TUBERCULOSIS (ALL FORMS)—Continued.

		<del>,</del>			,	
City.	Estimated population July 1, 1923	reported	Cases per 1,000 inhab- itants.	Deaths regis- tered 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Washington:						
Seattle Spokane Tacoma	1 315, 685 104, 573 101, 731	766 114 74	2. 43 1. 09 . 73	193 55 41	. 61 . 53 . 40	4.0 2.1 1.8
Wisconsin: Milwaukee	484, 595			298	. 61	
77 cities	30, 043, 609			29, 476	. 98	
TUBE	RCULOSIS	(PULMO	NARY).	!		
	1	1	T	l I		
Alabama: Birmingham California:	195, 901	521	2. 66	214	1.09	2.4
Los AngelesOakland	666, 853 240, 086			995 114	1. 49 . 47	
OaklandSan Francisco	539, 038	1, 230	2. 28	561	1.04	2.2
DenverConnecticut:	272, 031	<b></b>		519	1.91	
Bridgeport	1 143, 555 1 138, 036	271	1.89	116	. 81	2.3
HartfordNew Haven	1 138, 036 172, 967	230 287	1. 67 1. 66	70 118	. 51 . <b>68</b>	3.3 2.4
Delaware: Wilmington	117, 728			71	. 60	
District of Columbia: Washington	1 437, 571	1, 210	2.77	506	1.16	2.4
Florida: Jacksonville	100, 046			166	1.66	
Illinois: Chicago	2, 886, 121			2,008	.70	
Indiana: : Indianapolis	342, 718	343	1.00	272	. 79	1.3
Iowa: Des Moines	140, 923			70	. 50	
Louisiana: New Orleans	404, 575			632	1. 56	
Maryland: Baltimore	773, 580	1, 482	1. 92	899	1. 16	1.6
Massachusetts: Boston	770, 400	1, 683	2. 18	677	. 88	2.5
Cambridge	111,444	171	1.53	113	1. 01	1.5
Fall RiverLowell	120, 912 115, 089	223 150	1.84 1.30	122 76	1.01 .66	1.8 2.0
Lynn	102, 683 l	139	1.35	54	. 53	2.6
New Bedford	130, 072 144, 227 191, 927	210	1.61	95 j	.73	2. 2
Springfield	144, 227	167	1. 16	62	. 43	2.7
Michigan:	191, 927	212	1. 10	127	. 67	1.7
Detroit	995, 668	2, 234	2. 24	855	. 86	2.6
Flint	117, 968 145, 947	192	1. 63	34	. 29	5. 6
Grand Rapids	145, 947			57	. 39	
Minneapolis	409, 125	995	2.43	270	. 66	3.7
St. Paul	241, 891	400	1. 65	191	.79	2.1
Missouri: St. Louis Nebraska:	803, 853	1,668	2.07	564	. 70	3.0
Omaha	204, 382	122	. 60	84	.41	1.5
New Jersey: Camden	124, 157			76	. 61	
Newark Paterson	438, 699 139, 579	1,008	2. 30	357 101	. 81 . 72	2.8
Trenton	127, 390	195	1. 53	119	.93	1.6
Albany Buffalo	117, 375 536, 718	843	1. 57	114 464	. 97 . 86	1.8
1 Population Tan 1 1096	000, 120 [	010 1	2.01	202	.00 [	1.0

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

### TUBERCULOSIS (PULMONARY)—Continued.

City.	Estimated population July 1, 1923	Cases reported, 1923.	Cases per 1,000 inhab- itants.	Deaths regis- tered 1923.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
New York-Continued.		ŀ				
New York—Condition.	5, 927, 625	11, 336	1. 91	4, 951	.84	2.3
Rochester	317, 867			146	. 46	
Syracuse	184, 511	290	1.57	. 70	.38	4.1
Yonkers	107, 520	245	2. 28	78	. 73	3.1
Ohio:	1 208, 435			80	.38	1
Cincinnati	406, 312	879	2. 16	458	1.13	1. 9
('leveland	888, 519	1,850	2.08	750	.84	2.5
Columbus	261, 082	300	1, 15	211	.81	1.4
Dayton				115	. 69	
Toledo	268, 338			266	.99	
Youngstown	1 132, 358	112	.85	92	.70	1.2
Oklahoma: Oklahoma	101, 150		l	58	. 57	Ì
Oregon:	101,100				.01	
Portland	273, 621			146	. 53	
Pennsylvania:	l <u>.</u> .	İ				
Erie	112, 571			73	. 65	
Philadelphia Pittsburgh	1, 922, 788 613, 442	744	1. 21	1,867	. 97	
Reading	110, 917	/11	1. 21	464 51	. 76 . 46	
Scranton	140, 636			79	. 56	
Rhode Island:	,			"		
Providence	242, 378			166	. 68	l
Tennessee:						1
Memphis	170, 067	560	3. 29	233	1. 37	2.4
Nashville	121, 128			152	1. 25	
Dallas	177, 274			99	. 56	
Houston	154, 970			152	.98	
San Antonio	184, 727			425	2, 30	
Utah:	,				00	
Salt Lake City	126, 241			63	. 50	
Virginia:	101 044					
Richmond	181, 044	598	3. 30	203	1. 12	2.9
Seattle	1 315, 685			138	. د ه	
Spokane	104, 573	99	. 95	40	. 44	2.5
Tacoma.	101, 731			22	. 22	
Wisconsin:	, , ,					
Milwaukee	484, 595	667	1. 38	241	. 50	2.8
67 cities	28, 168, 870			23, 832	. 85	
	, 100, 010			20,002	. 65	

#### TYPHOID FEVER.

	Estimated		ated ex- tancy.			1923.		
City.	population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1;000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Fatal- ities per 100 cases.
Alabama:								
Birmingham California:	195, 901	5	191	136	0. 69	15	0.08	11.0
Los Angeles	666, 853 240, 086	7 7	159 60	171 27	. 26 . 11	22 8	. 03	12.9
San Francisco	539, 038	. 7	97	73	. 14	17	. 03	29. 6 23. 3
DenverConnecticut:	272, 031	7	108	72	. 26	14	. 05	19.4
Bridgeport	1 143, 555	7	22	17	. 12	2	.01	11.8
New Haven	1 138, 036 172, 967	7 7	48 68	7 74	. 05 . 43	8	. 01 . 05	14. 3 10. 8

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1924.

### TYPHOID FEVER-Continued.

				_				
	Fatimate d	Estin	ated ex- tancy.		•	1923.		
City.	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- tants	Deaths regis- tered.	Deaths per 1,000 inhabi- tants.	Fatali- ties per 100 cases.
Delaware: Wilmington District of Columbia:	117, 728	6	42	47	. 40	4	. 03	8.5
District of Columbia: Washington	1 437, 571	7	195	113	. 26	27	.06	
Florida: Jacksonville	100, 046	4	75	52	. 52	14	.14	23.9
Georgia:	222, 963	7	94	67	. 30	39	<b>f</b> .	26.9
Atlanta Illinois:		7	234	473			. 17	58.2
Chicago	2, 886, 121	1		1	. 16	57	. 02	12.1
Indianapolis Iowa:	342, 718	6	85	42	. 12	9	. 03	21.4
Des Moines Kansas:	140, 923					1	. 01	
Kansas City Kantucky:	115, 781	5	47	30	. 26	1	. 01	3.3
LouisvilleLouisiana:	257, 671	7	135	138	. 54	11	. 04	8.0
New Orleans Maryland:	404, 575	7	187	170	. 42	37	. 09	21.8
Baltimore	773, 580	7	303	209	. 27	32	. 04	15.3
Massachusetts: Boston	770, 400	7	141	120	. 16	10	.01	8.3
Cambridge Fall River	111, 444 120, 912	6 5	16 93	15 29	. 13	4 5	. 04 . 04	26. 7 17. 2
Fall River Lowell Lynn	115, 089	7	27 22	10 17	. 09	3	. 03	30.0
New Bedford	102, 683 130, 072	7	41 22	5	. 17	3 3 1 2	.03	17. 6 20. 0
New Bedford Springfield Worcester	144, 227 191, 927	5 7 6 7 7	22 36	14 18	.10	2 5	. 01 . 03	14.3 27.8
Michigan: Detroit	995, 668	7	260	134	. 13	42	.04	31.3
Flint	117, 968 145, 947	4 7	69 31	23 33	. 19	4	. 03	17.4
finnesota: Duluth		7	11	j	- 1	2	.01	6.1
Minneapolis	106, 289 409, 125	7	34 122	20 47	. 19	3 6	.03	15.0 12.8
fissouri:	241, 891	7	47	48	. 20	11	. 05	22.9
Kansas City St. Louis	351, 819 803, 853	7 7	88 209	48 141	. 14	19	. 05	39.6
lebraska: Omaha	204, 382	- 1	- 11	. 1	. 18	36	.01	25. 5
ew Jersey: .	1	7	36	15	. 07	3	.01	20.0
CamdenElizabeth	124, 157 103, 947	7 7	42 19	25 22	. 20	5	. 04 . 01	20.0 4.5
Elizabeth Jersey City Newark Paterson	300 034 i	7	35	28	. 09	5	. 02	17.9
Paterson.	438, 699 139, 579 127, 390	6 7	92 24	66 20	. 15	11 4	.03	16. 7 20. 0
Trenton ew York:	127, 390	7	37	41	. 32	11	.09	26.8
Albany	117, 375	7	62	57	. 49	4	. 03	7.0
New York	536, 718 5, 927, 625	7 7	88 969	56 890	. 10 . 15	22 140	.04	39. 3 15. 7
Rochester Syracuse	317, 867	7	47	40	. 13	7	.02	17.5
Utica Yonkers	184, 511 103, 457	7	42 17	26 10	. 14	0 .	. 02	15, 4
Yonkers	103, 457 107, 520	7	īi	12	ii	i i	.01	8.3
Akron	1 208, 435	4	45	26	. 12	4	. 02	15.4
Akron Cincinnati Cleveland	406, 312 888, 519	7 7	67 147	62 114	. 15	12 16	. 03	19. 4 14. 0
Columbus	261, 082	5	54	42	. 16	11	.02	26. 2
Dayton Toledo	165, 530 268, 338	7	70	28 49	. 17	15	. 02	14.3 30.6
Toledo	1 132, 358	6	69	31	. 23	5	.06	30. 6 16. 1
Oklahoma	101, 150	6	38	47	48	12	. 12	25. 5
Tulsa	102, 018	2	40	74	. 46 . 73	17	:17	23. 0

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

### TYPHOID FEVER—Continued.

			ated ex- tancy.			1923.		
Cit <b>y.</b>	Estimated population July 1, 1923.	Num- ber of years.	Cases.	Cases reported.	Cases per 1,000 inhab- tants.	Deaths regis- tered.	Deaths per 1,000 inhabi- tants.	Fatalities per 100 cases.
Oregon: Portland	273, 621	7	47	29	. 11	8	.03	27. 6
Pennsylvania:	112, 571	7	32	22	. 20	3	.03	13. 6
Philadelphia	1, 922, 788	7	394	271	.14	29	.02	10.7
Pittsburgh	613, 442	7	147	81	. 13	23	.01	28.4
Reading	110, 917	5	40	16	. 14	3	. 03	18. 7
Scranton	140, 636	7	13	8	.06	2	.01	25. 0
Rhode Island:								
Providence	242, 378	5	51	18	. 07	2	.01	11. 1
Tennessee: Memphis	170, 067	6	127	240	1, 41	24	. 14	10.6
Nashville	121, 123	7	176	93	.77	12	.10	10. 0
Texas:	121, 120	•	1,0	93		12	.,10	14.9
Dallas	177, 274	7	93	141	. 80	21	. 12	14. 9
Fort Worth	143, 821	6	38	37	. 26	8	. 06	21.6
Fort Worth	154, 970	6	60	36	. 23	12	. 08	33. 3
San Antonio	184, 727	6	63	50	. 27	6	. 03	12.0
Utah:	·							
Salt Lake City	126, 241	5	37	31	. 25	5	.04	16. 1
Vfrginia:		_						
Norfolk	159, 089	5	37	40	. 25	.0		
Richmond	181, 044	6	84	68	. 38	11	. 06	16. 2
Washington: Seattle	1 315, 685	7	56	44	. 14	8	. 03	18. 2
Spokane:	104, 5	7	34	25	. 24	7	.03	28. 0
Tacoma	101, 731	7	19	37	. 36	5	. 07	28. 0 13. 5
Wisconsin:	101, 731	' 1	19	"	. 30	J	.03	10. 0
Milwaukee	484, 595	5	49	26	. 05	4	. 01	15. 4
77 cities 3	30, 003, 836		7, 100	5, 734	. 19	981	. 03	17. 1

#### TYPHUS FEVER.

City.	Cases reported, 1923.	Deaths regis- tered, 1923.	City.	Cases reported, 1923.	Deaths regis- tered, 1923.
Alabama: Birmingham California:	2	. 0	Maryland: Baltimore Massachusetts:	2	0
Los Angeles	15	0	Boston	1	0
Connecticut: New Haven	1	0	St. Louis	1	0
District of Columbia: Washington	1	0	New York: New York	8	0
Georgia: Atlanta	4	0			

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

<sup>&</sup>lt;sup>2</sup> Des Moines, Iowa, not included.

#### WHOOPING COUGH.

					1923.		
City.	Estimated population July 1, 1923.	Cases reported, 1922.	Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Alabama: Birmingham	195, 901	83	301	1, 54	37	0. 19	8.1
California: Los Angeles	666, 853	642	445	. 67	23	. 03	19.3
Oakland San Francisco	240, 086 539, 038	86 506	169 482	. 70 . 89	11 28	. 05	15.4
Colorado:	1	608					17. 2
Denver	272, 081		882	3. 24	32	. 12	27.6
Bridgeport Hartford	1 143, 555 1 138, 036 172, 967	48 367	150 288	1. <b>04</b> 2. 09	16 10	. 11 . 07	9. 4 28. 8
New Haven	172, 967	360	251	1. 45	8	. 05	31. 4
Delaware: WilmingtonDistrict of Columbia:	117, 728	34	131	1. 11	8	. 07	16.4
Washington	1 437, 571	545	1, 391	3. 18	34	.08	40.9
Florida: Jacksonville	100, 046		225	2. 25	4	. 04	56. 2
Jeorgia: Atlanta	222, 963	35	75	. 34	33	. 15	2.3
llinois: Chicago	2, 886, 121	3, 659	3, 426	1. 19	137	. 05	25.0
ndiana: Indianapolis	342, 718	298	1, 431	4. 18	20	. 06	71, 5
owa: Des Moines	140, 923				17	. 12	
Kansas: Kansas City	115, 781	101	447	3.86	4	. 03	111.7
Kentucky: Louisville	257, 671	51	466	1.81	2	. 01	233. 0
ouisiana: New Orleans	404, 575	133	314	. 78	52	. 13	6.0
Aaryland: Baltimore	773, 580	1, 453	3, 090	3. 99	100	. 13	30.9
fassachusetts: Boston	770, 400	1, 567	2, 034	2.64	109	. 14	18.7
Cambridge Fall River	111, 444 120, 912	402 88	1, 050 155	9, 42 1, 28	16 14	. 14 . 12	65. 6 11. 1
Lowell	115.089	32	197	1. 28 1. 71	12	. 10	16.4
Lynn New Bedford	102, C83 130, 072	80 58	227 191	2. 21 1. 47	15	. 15	15. 1 95. 5
New Bedford Springfield Worcester	144, 227	169	260	1.80	7	. 05	37.1
worcester fichigan:	191, 927	276	199	1.04	6	.03	33. <b>2</b>
Detroit	995, 668 117, 968	2, 469 269	2, 745 356	2. 76 3. 02	82	.08	33.5
Grand Rapids	145, 947	458	527	3. 61	8	.02	178. 0 65. 9
Duluth	106, 289	186	240	2. 26	1	. 01	240.0
Minneapolis St. Paul	409, 125 241, 891	125 664	120 769	. 29 3. 18	26 15	.06	4. 6 51. 3
lissouri:	1	]]	1	3. 18	15		
Kansas City St. Louis	351, 819 803, 853	79 102	651 2, 644	1.85 3.29	23 108	. 07	28. 3 24. 5
lebraska: Omaha	204, 382	32	158	.77	13	. 06	12.2
lew Jersey: Camden	124, 157	6	65	. 52	10	.08	6. 5
Elizabeth	103, 947 309, 034	301 116	251 71	2.41	13 26	. 13	19.3 2.7
Jersey City Newark Paterson	438, 699	2, 383	1, 124	2, 56	19	. 04	<b>59. 2</b>
Trenton	139, 579 127, 390	326 156	412 14	2. 95 . 11	5 4	.04	82. 4 3. 5
ew York: Albany	1	327	220	1. 95	7	.06	32.7
Buffalo New York	117, 375 536, 718 5, 927, 625	548 4, 799	1,098	2.05	45	.08	24.4
Rocnester	5, 927, 625 317, 867	290	4, 484 404	1. 27	202	.03	22. 2 18. 4
Syracuse	184, 511	393	527	2.86	13	:07	40. 5
Utica Yonkers	163, 457 107, 520	386 118	58 72	. 56	0  -		

<sup>&</sup>lt;sup>1</sup>Population Jan. 1, 1920.

### WHOOPING COUGH-Continued.

					1923.		
City	Estimated population July 1, 1923		Cases reported.	Cases per 1,000 inhab- itants.	Deaths regis- tered.	Deaths per 1,000 inhab- itants.	Cases reported for each death regis- tered.
Ohio:							
Akron Cincinnati Cleveland	1 208, 435 406, 312 888, 519	1,078 260 2,436	490 728 1, 629	2. 35 1. 79 1. 83	8 18 34	.04 .04 .04	61. 2 40. 4 47. 9
Columbus		119	318	1. 22	37	.14	8.6
Dayton	165, 530 268, 338	97 533	71 498	. 43 1. 86	24 8	. 14	3. 0 62. 2
Youngstown	1 132, 358	428	230	1. 74	11	.03	20.9
Okla <b>homa</b> :	102,000			1	**		20.0
Oklahoma	101, 150	27	63	. 62	0		
Tulsa	102, 018	15	35	. 34	12	. 12	2.9
Oregon: Portland	273, 621	96	236	. 86	12	.04	19.7
Pennsylvania:	2.0,021	"			12	.01	19. 7
Erie	112, 571	422	582	5. 17	14	. 12	41.6
Philadelphia	1, 922, 788	930	2, 457	1. 28	103	. 05	23. 9
Pittsburgh	613, 442	2, 588	1, 253	2.04	42	. 07	29.8
Reading	110, 917 140, 636	140 64	321 17	2.89 .12	3 2	.03	107. 0
Rhode Island:	140, 030	0-2	14	. 12	z	.01	8. 5
Providence	242, 378	199	186	. 77	* 37	. 15	5. 0
Tennessee:	,			• • • • • • • • • • • • • • • • • • • •	0.		0.0
Memphis	170, 067	393	389	2. 29	7	.04	55. 6
Nashville	121, 128	38	131	1.08	16	. 13	8. 2
Texas:	100 004		852				
Dallas Fort Worth	177, 274 143, 821	455	852	4.81	16 4	.09	53. 2
Houston	154, 970		10	.06	4	.03	1. 5 2. 5
San Antonio	184, 727		i	:01	õ	.03	2.0
Utah:	202, 121		- 1	.01	۰		
Salt Lake City	126, 241	347	1,029	8. 15	5	.04	205, 8
Virginia:	,		1		-		
Richmond	181, 044	82	315	1.74	67	. 37	4.7
Washington: Seattle					1	``	
Spokane	1 315, 685	711	525 423	1.66	13	.04	40. 4
Tacoma	104, 573 101, 731	46 165	250	4. 05 2. 46	4 3	.04	105. 7 83. 3
Wisconsin:	101, 131	100	المح	4. 30	°	.03	o. 3
Milwaukee	. 484, 595	3, 256	1, 357	2.80	9	. 02	150.8
76 cities 2	29, 844, 747		49, 698	1. 67	1, 899	.06	26. 2

<sup>&</sup>lt;sup>1</sup> Population Jan. 1, 1920.

<sup>&</sup>lt;sup>2</sup> Des Moines, Iowa, not included.

### DEATHS DURING WEEK ENDED JUNE 28, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended June 28, 1924, and corresponding week of 1923. (From the Weekly Health Index, July 1, 1924, issued by the Bureau of the Consus, Department of Commerce.)

•	Week ended June 28, 1924.	Corresponding week, 1923.
Policies in force	56, 466, 115	<b>52, 668, 0</b> 33
Number of death claims	10, 090	9, 484
Death claims per 1,000 policies in force, annual rate	9. 3	9. 4

Deaths from all causes in certain large cities of the United States during the week ended June 28, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, July 1, 1924, issued by the Bureau of the Census, Department of Commerce.)

		nded June 1924.	Annual death rate per 1,000	V	under 1 ear.	Infant mortal
City.	Total deaths.	Death rate.1	corre- sponding week, 1923.	Week ended June 28, 1924.	Corresponding week, 1923.	ity rate, week ended June 28, 1924. <sup>2</sup>
Total (63 cities)	5, 945	11. 6	* 11. 9	761	8 713	
Akron Albany 4 Atlanta Baltimore 4 Birmingham Boston Bridgeport Buffalo Cambridge Camden Chicago 4 Cincinnati Cleveland Columbus Dallas Denver Des Moines Detroit Duluth Erie Fall River Filnt Fort Worth Grand Rapids Houston Indianapolis Jacksonville, Fla Jersey City Kansas City, Kans Kansas City, Kans Kansas City, Mo Los Angles Louiville Lynn Memphis Milwaukee Minneapolis Nashville New Bedford New Hoven	109 163 46 48 48 22 194 21 14 31 14 39 88 81 66 67 65 56	16.3 15.8 14.1 20.8 12.5 11.6 13.5 11.6 9.1 13.9 9.3 13.3 12.8 7.9 10.1 13.4 8.8 5.6 13.1 20.9 11.0 13.7 10.0 13.7 10.0	11. 1 14. 7 13. 8 17. 6 8. 0 10. 8 11. 3 16. 2 10. 4 13. 4 12. 3 8. 1 6. 4 7. 8 11. 9 16. 7 12. 5 6. 8 14. 1 14. 6 14. 5 6. 1 20. 5 9. 4 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0 9. 0	5 3 3 115 222 133 227 6 6 244 111 6 6 5 5 30 2 1 1 10 7 7 4 4 4 3 3 2 2 5 5 7 7 7 2 8 8 2 3 3 3 3 1 1 2 4 6 6 4 4 2 2	1 4 11 25 6 22 3 19 0 1 74 9 25 7 11 10 6 45 4 1 1 1 18 10 9 9	53 68 65 75 96 101 35 98 86 63 61 38 21 141 121 62 15 50 39 100 28 54 76
Minneapolis	78 67 56	8. 4 23. 7	9. 4 9. 0 23. 0	14 6 4	13 15 4	32

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1923. Cities left blank are not in the registration area for births. Data for 61 cities.

Deaths for week ended Friday, June 27, 1924.

Deaths from all causes in certain large cities of the United States during the week ended June 28, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923—Continued.

		nded June 1924.	Annual death rate		under 1 ar.	Infant mortal-
City.	Total deaths.	Death rate.	per 1,000 corre- sponding week, 1923.	Week ended June 28, 1924.	Corresponding week, 1923.	ity rate, week ended June 28, 1924.
New York Bronx borough Brooklyn borough Manhattan borough Queens borough Richmond borough Newark, N. J Norlolk Oakland Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg Providence Richmond Rochester St. Louis St. Paul Salt Lake City 's San Antonio San Francisco Schenectady Seattle Somerville Sopkane Springfield, Mass Syracuse Tacoma Toledo Trenton	114 29 86	9.3 10.1 13.5 10.7 11.6 10.1 9.8 8.9 9.8 10.0 11.3 13.3 11.4 13.7 19.3 10.7 11.4 9.8 13.4 13.3 10.7 11.6 13.4 13.5 10.5 10.5 10.5	10. 7 9. 1 9. 7 12. 0 10. 6 14. 7 11. 8 15. 7 10. 4 11. 2 10. 3 10. 8 17. 9 14. 3 11. 6 9. 5 14. 1 13. 4 10. 0	159 144 466 86 122 1 1 33 5 5 44 12 133 3 45 7 4 4 4 6 6 6 6	146 17 43 67 15 4 11 10 6 6 47 17 5 6 10 10 15 8 3 3 3 1 3 4 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	64 49 49 87 60 18 61 54 63 
Utica Washington, D. C. Waterbury. Wilmington, Del. Yonkers. Youngstown	19 125 19 20 22 21	9.4 13.4 8.7 10.5 7.1	12. 1 11. 9 11. 1 11. 2 9. 7	2 18 5 0 2 1	1 16 3 2 1 3	44 104 116 0 44 14

<sup>4</sup> Deaths for week ended Friday, June 27, 1924.

# 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 WEEKLY STATE REPORTS.

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

### Reports for Week Ended July 5, 1924.

Cases
Chicken pox.         14         Lethargic encephalitis:         1
Diphtheria
Dysentery
Malaria
Malaria         102         Poliomyelitis:           Measles         35         Los Angeles         1           Mumps         21         Orange County         1           Pellagra         17         Pittsburg         2           Pneumonia         5         Scarlet fever         53           Poliomyelitis         2         Scarlet fever         53           Smallpox:         2         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Measles         35         Los Angeles         1           Mumps         21         Orange County         1           Pellagra         17         Pittsburg         2           Pneumonia         5         Scarlet fever         53           Poliomyelitis         2         Smallpox:           Scarlet fever         2         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Mumps         21         Orange County         1           Pellagra         17         Pittsburg         2           Pneumonia         5         Scarlet fever         53           Poliomyelitis         2         Smallpox         9           Scarlet fever         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Pellagra         17         Pittsburg         2           Pneumonia         5         Scarlet fever         53           Poliomyelitis         2         Smallpox         8mallpox         9           Scarlet fever         27         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Pneumonia         5         Scarlet fever         53           Poliomyelitis         2         Smallpox:         3           Scarlet fever         2         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Poliomyelitis         2         Smallpox:           Scarlet fever         2         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Scarlet fever         2         Hermosa Beach         9           Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Smallpox         27         Los Angeles         28           Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Tuberculosis         42         Los Angeles County         12           Typhoid fever         24         Scattering         36
Typhoid fever 24 Scattering 36
ARIZONA.
Measles COLORADO.
Mumps 3 (Exclusive of Denver.)
Security forces
Chicken pox
Dipntneria. 15
Tuberculosis 16 Measles 19
Typhoid fever 8 Mumps 7 Whooping cough 3
Whooping cough
ARKANSAS. Scarlet fever10
Chicken pox 2 Tuberculosis 48
Diphtheria 1 Typhoid fever 5
Influenza
Malaria 123
Measles 39 CONNECTICUT.
Mumps 9 Cerebrospinal meningitis 2
Pellagra
Scarlet fever
Smallpox 4 German measles 4
Tuberculosis
Typhoid fever
Whooping cough

connecticut—continued.		INDIANA.	
	ses.	Ca	
Measles	102	Chicken pox	13
Mumps	90	Diphtheria	
Pneumonia (lobar)		Influenza	
Scarlet fever	26	Measles	
Smallpox	15	Mumps	4
Trachoma	1	Pneumonia	4
Tuberculosis (all forms)	26	Scarlet fever	44
Typhoid fever	1	Smallpox	31
Whooping cough	25	Tuberculosis	23
DELAWARE.		Typhoid fever	7
Chicken pox	3	Whooping cough	11
Diphtheria	1	IOWA,	
Measles	4	Diphtheria	~
	1	Scarlet fever	7
Mumps	_	Small nor	11
Scarlet fever	1	Smallpox	3
Tuberculosis	1	KANSAS.	
Whooping cough	3	Chicken pox	7
FLORIDA.		Diphtheria	9
Diphtheria	3	German measles	2
Influenza	6	Influenza	_
		Moorles	1
	37		74
Pneumonia.	1	Mumps	69
Smallpox	2		16
Typhoid fever	8	Scarlet fever	21
GEORGIA.	- 1	Smallpox	8
Diphtheria	.	Trachoma	1
	6	Tuberculosis	33
Dysentery (amebic)  Dysentery (bacillary)	2	Typhoid fever	6
	20		64
	1		٠-
	17	LOUISIANA.	
	3	Anthrax	1
	14	Diphtheria	6
	2	* TOTAL	12
Pneumonia	5	Influenza	12
	2	363	26
Scarlet fever 2	20	•	22
	12	a. 144	6
m	8	a 11	1
	9	m	30
	٦,		
ILLINOIS.		Whosping cough	25
Cerebrospinal meningitis:	- 1	Whooping cough	4
	.	MAINE.	
	1	Chicken pox	10
Diphtheria:	.		9
Cook County 62		German measles 1	9
Scattering 25	5	Influenza	5
	8	Measles2	-
Lethargic encephalitis:	- 1	Mumps 3	
Cook County.	2		7
Measles 337		~ • • •	
Pneumonia 86	- 1	Tuboranlogia	8
carlet fever:	1		3
Cook County 66		****	9
Scattering 28		Whooping cough 10	6
mallpox:	' [	MARYLAND, 1	
	. 1		_
Cook County 10	'   '	Cerebrospinal meningitis 1	
	. [ '	Chicken pox	2
Lake County 11	1   3	Diphtheria 12	2
Pike County 22		Dyrontory	2
Pike County 22 Scattering 4	:	Dysentery 2	
Pike County 22 Scattering 4 uberculosis 276		German measles 2	;
Pike County         22           Scattering         4           uberculosis         276           yphold fever         11		German measles 2 Influenza 2	-
Pike County 22 Scattering 4		German measles 2	2

MARYLAND—continued.		MISSOURI—continued.	
	ases.		ises.
Measles	_ 97	Pneumonia	4
Mumps	_ 18	Scarlet fever	43
Pneumonia (all forms)		Smallpox	8
Poliomyelitis		Tetanus	
		Trachoma	_
Scarlet fever	-		
Smallpox	- :	Tuberculosis	
Tetanus	. 1	Typhoid fever	
Tuberculosis	. 86	Whooping cough	20
Typhoid fever	. 10		
Whooping cough		MONTANA.	
W nooping coughing		Diphtheria	3
MASSACHUSETTS.		Rocky Mountain spotted fever:	
•	_	Ekalaka	1
Cerebrospinal meningitis		Garnet	1
Chicken pox	. 87	Scarlet fever	15
Conjunctivitis (suppurative)	. 19	Smallpox	-
Diphtheria	109		17
Dysentery		Typhoid fever	6
German measles		NEW JERSEY.	
Influenza		Cerebrospinal meningitis	1
Malaria	. 1	Chicken pox	84
Measles	311	Diphtheria	
Mumps	78		
Ophthalmia neonatorum	9	Malaria	1
Pneumonia (lobar)	-	Measles	274
Scarlet fever		Paratyphoid fever	1
		Pneumonia	41
Septic sore throat	4	Scarlet fever	62
Tetanus	1	Smallpox	12
Trichinosis	1	Typhoid fever	6
Tuberculosis (all forms)	109		
Typhoid fever	9	Whooping cough	82
		NEW MEXICO.	
Whooping cough	73	Chicken nov	
MICHIGAN.	73	Chicken pox	1
MICHIGAN.		Chicken pox	5
MICHIGAN. Diphtheria	96	Chicken pox	
MICHIGAN. Diphtheria	96 <b>4</b> 01	Chicken pox	5
MICHIGAN.  Diphtheria	96 401 50	Chicken pox	5 1
MICHIGAN.  Diphtheria	96 401 50 159	Chicken pox	5 1 17
MICHIGAN.  Diphtheria	96 401 50 159 90	Chicken pox	5 1 17 2 5
MICHIGAN.  Diphtheria	96 401 50 159 90	Chicken pox	5 1 17 2 5 2
MICHIGAN.  Diphtheria	96 401 50 159 90	Chicken pox	5 1 17 2 5 2 39
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	96 401 50 159 90 18 8	Chicken pox	5 1 17 2 5 2
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	96 401 50 159 90 18 8	Chicken pox	5 1 17 2 5 2 39
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	96 401 50 159 90 18 8	Chicken pox	5 1 17 2 5 2 39
MICHIGAN.  Diphtheria	96 401 50 159 90 18 8 148	Chicken pox	5 1 17 2 5 2 39
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MINNESOTA.  Cerebrospinal meningitis	96 401 50 159 90 18 8 148	Chicken pox	5 1 17 2 5 2 39 5
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MINNESOTA.  Cerebrospinal meningitis Chicken pox	96 401 50 159 90 18 8 148	Chicken pox	5 1 17 2 5 2 39 5
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria	96 401 50 159 90 18 8 148	Chicken pox  Diphtheria  Malcria  Measles  Mumps  Pneumonia  Scarlet fever  Tuberculosis  Typhoid fever  NEW YORK.  (Exclusive of New York City.)  Diphtheria  Influenza	5 1 17 2 5 2 39 5
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MINNESOTA.  Cerebrospinal meningitis Chicken pox	96 401 50 159 90 18 8 148	Chicken pox	5 1 17 2 5 2 39 5 5 84 1 6
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles	96 401 50 159 90 18 8 148	Chicken pox.  Diphtheria.  Malaria.  Measles.  Mumps.  Pneumonia.  Scarlet fever.  Tuberculosis.  Typhoid fever.  NEW YORK.  (Exclusive of New York City.)  Diphtheria.  Influenza.  Lethargic encephalitis.  Measles.	5 1 17 2 5 2 39 5 5 84 1 6 6 741
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia	96 401 50 159 90 18 8 148 1 38 45 29 4	Chicken pox	5 1 17 2 5 2 39 5 5 84 1 6 6 741
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever	96 401 50 159 90 18 8 148 1 38 45 29 4 75	Chicken pox.  Diphtheria.  Malaria.  Measles.  Mumps.  Pneumonia.  Scarlet fever.  Tuberculosis.  Typhoid fever.  NEW YORK.  (Exclusive of New York City.)  Diphtheria.  Influenza.  Lethargic encephalitis.  Measles.	5 1 17 2 5 2 39 5 5 84 1 6 6 741
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox	96 401 50 159 90 18 8 148 1 1 38 45 29 4 75 33	Chicken pox Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia	5 1 17 2 5 2 39 5 5 84 1 6 6 7 41 118 7
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	96 401 50 159 90 18 8 148 148 1 75 33 62	Chicken pox Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever	5 1 17 2 5 2 39 5 5 84 1 6 6 7 41 118 7
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	96 401 50 159 90 18 8 148 1 1 38 45 29 4 75 33	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox	5 1 17 2 5 2 39 5 5 84 1 6 7 741 1118 7
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis	96 401 50 159 90 18 8 148 148 1 75 33 62	Chicken pox. Diphtheria. Malcria. Measles. Mumps. Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Typhoid fever.	5 1 17 2 5 2 39 5 5 84 1 6 6 741 118 7 134 4 21
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever	96 401 50 159 90 18 8 148 148 1 75 33 62 4	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox	5 1 17 2 5 2 39 5 5 84 1 6 6 741 118 7 134 4 21
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	96 401 50 159 90 18 8 148 1 1 38 45 29 4 75 33 62 4 19	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Whooping cough	5 1 17 2 5 2 39 5 5 84 1 6 6 741 118 7 134 4 21
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	96 401 50 159 90 18 8 148 148 45 29 4 4 75 33 62 4 19	Chicken pox.  Diphtheria Malcria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.)  Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough	5 1 17 2 39 5 5 84 1 6 744 118 7 134 4 21
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	96 401 50 159 90 18 8 148 1 1 38 45 29 4 75 33 62 4 19	Chicken pox Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Scarlet fever Typhoid fever Whooping cough  NORTH CAROLINA. Chicken pox	5 1 17 2 5 2 39 5 5 84 1 6 6 744 4 21 230
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox	96 401 50 159 90 18 8 148 148 45 29 4 4 75 33 62 4 19	Chicken pox.  Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.)  Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA.  Chicken pox. Diphtheria	5 1 17 2 5 2 39 5 5 84 1 6 741 118 7 134 4 21 230
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox	96 401 50 159 90 18 8 148 1 1 38 445 29 4 75 33 62 4 19	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Whooping cough  NORTH CAROLINA. Chicken pox Diphtheria. German measles.	5 1 17 2 5 2 39 5 5 84 1 6 7 741 118 7 334 4 21 230 19 24 1
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Smallpox Typhoid fever Smallpox Typhoid fever Smallpox Typhoid fever Smallpox Typhoid fever Smallpox Typhoid fever	96 401 50 159 90 18 8 148 148 175 33 62 4 19	Chicken pox.  Diphtheria Malcria Measles Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.)  Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA Chicken pox. Diphtheria German measles Measles	5 1 17 2 5 2 39 5 5 84 1 6 6 7 4 21 230 19 24 1 00 0
MICHIGAN.  Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Whooping cough	96 401 50 159 90 18 8 148 148 175 33 62 4 19	Chicken pox. Diphtheria Malcria Measles Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA Chicken pox Diphtheria German measles Measles Poliomyelitis	5 1 17 2 5 2 39 5 5 84 1 6 7 741 118 7 334 4 21 230 19 24 1
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI  Diphtheria Scarlet fever Smallpox Typhoid fever Whoping cough  MISSISSIPPI  Diphtheria Scarlet fever Smallpox Typhoid fever Typhoid fever  MISSOURI.  Chicken pox.	96 401 50 159 90 18 8 148 148 175 33 62 4 19	Chicken pox.  Diphtheria Malcria Measles Measles Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever  NEW YORK.  (Exclusive of New York City.)  Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA Chicken pox. Diphtheria German measles Measles Poliomyelitis	5 1 17 2 5 2 39 5 5 84 1 6 6 7 4 21 230 19 24 1 00 0
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Chicken pox Diphtheria	96 401 50 159 90 18 8 148 148 1 38 44 75 33 62 4 19	Chicken pox Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis. Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA. Chicken pox Diphtheria German measles Measles Poliomyelitis Scarlet fever	5 1 17 2 5 2 39 5 5 84 1 6 6 7 44 1118 7 134 4 21 230 19 24 1 00 1
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Chicken pox Diphtheria	96 401 50 159 90 18 8 148 1 1 38 45 29 4 19 3 3 2 25	Chicken pox Diphtheria Malaria Measles Mumps Pneumonia Scarlet fever Tuberculosis. Typhoid fever  NEW YORK.  (Exclusive of New York City.) Diphtheria Influenza Lethargic encephalitis Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough  NORTH CAROLINA. Chicken pox Diphtheria German measles Measles Poliomyelitis Scarlet fever Sporter of More and Carolina Scarlet fever Diphtheria German measles Measles 1 Poliomyelitis Scarlet fever Septic sore throat	5 1 17 2 5 2 39 5 5 84 1 6 741 118 7 121 221 230 19 224 1 000 1 16
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Missouri Chicken pox Diphtheria Epidemic sore throat	96 401 50 159 90 18 8 148  1 38 45 29 4 75 33 62 4 19 3 3 2 25 9 20 3	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Typhoid fever. Whooping cough  NORTH CAROLINA. Chicken pox. Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Smallpox. Typhoid fever. Whooping cough	5 1 17 2 5 2 3 5 5 84 1 6 6 7 7 4 1 118 7 134 4 21 22 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
MICHIGAN.  Diphtheria Measles. Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MINNESOTA.  Cerebrospinal meningitis Chicken pox Diphtheria Measles Pneumonia Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Scarlet fever Smallpox Typhoid fever Whooping cough  MISSISSIPPI.  Diphtheria Chicken pox Diphtheria	96 401 50 159 90 18 8 148  1 38 445 29 4 75 33 62 4 19 3 3 2 255 9 20 3 44	Chicken pox. Diphtheria. Malaria Measles Mumps Pneumonia. Scarlet fever. Tuberculosis Typhoid fever.  NEW YORK.  (Exclusive of New York City.) Diphtheria. Influenza. Lethargic encephalitis. Measles Pneumonia. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Whooping cough  NORTH CAROLINA.  Chicken pox Diphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Smallpox Spiphtheria. German measles. Measles. Poliomyelitis. Scarlet fever. Scarlet fever. Spetic sore throat. Smallpox	5 1 17 2 5 2 3 3 5 5 84 1 6 7 4 2 1 1 3 1 3 4 4 2 1 0 0 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1

NORTH DAKOTA.

Cases.

WASHINGTON.

	83e3.		ases.
Measles		ponilination of the contract of the co	
Poliomyelitis		Diphtheria	
Scarlet fever	. 15	Measles	_ 16
Smallpox		Mumps	. 17
Trachoma		Pneumonia	. 2
Tuberculosis	. 3	Scarlet fever	. 32
OREGON.		Smallpox	
Chicken pox	19	Tetanus	. 1
Diphtheria:		Tuberculosis	. 64
Portland	. 8	Typhoid fever	. 5
Scattering		Whooping cough	. 5
Measles			
Mumps		WEST VIRGINIA.	
Pneumonia		Diphtheria	
Scarlet fever		Scarlet fever	
		Smallpox	. 2
Smallpox		Typhoid fever	. 11
Tuberculosis			
Typhoid fever	2 4	WISCONSIN. Milwaukce:	
Wheeping cough	4	Cerebrospinal meningitis	
SOUTH DAKOTA.			
('hicken pox	1	Chicken pox	
Measles	23	Diphtheria	
Mumps	13	German measles	
Scarlet fever		Measles	
Smallpox	1	Pneumonia	
Typhoid fever	î	Scarlet fever	
Whooping cough		Smallpox	2
11 BOOK-118 AARB-118-118-118-118-118-118-118-118-118-11		Tuberculosis	
TEXAS.		Whooping cough	17
Cerebrospinal meningitis	1	Scattering:	
	1	Chicken pox	
Chicken pox Diphtheria	2 2	Diphtheria	23
	_	German measles	
Dysentery	12	Influenza	
Influenza	2	Measles.	141
Measles	37	Pneumonia	9
Mumps	7	Poliomyelitis	1
Pellagra	2	Scarlet fever	<b>52</b>
Pneumonia	2	Smallpox	32
Scarlet fever	19	Tuberculosis	32
Smallpox	19	Typhoid fever	5
Trachoma	5	Whooping cough	62
	68		
Typhoid fever	5	WYOMING.	
Whooping cough	57	Cerebrospinal meningitis	1
VERMONT.	- 1	Chicken pox	7
	13	Diphtheria	i
Diphtheria	1	Measles	5
	58	Mumps.	6
Mumps	7	Smallpox.	1
Scarlet fever	7	Tuberculosis	i
Smallpox	i	Typhoid fever-	1
Whooping cough	1	Whooping cough	2
" Mooping cought	- 1	whooping cough	Z
Reports for week	en	ded June 28, 1924.	
		204 5440 20, 1521,	
DISTRICT OF COLUMBIA.	- 1	NEBRASKA.	
Case		. Case	
	19	•	10
Diphtheria	3	Diphtheria	4
Measles	8	Measles	2
Poliomyelitis	1	Scarlet fever	6
	11	Smallpox	7
	14	Tuberculosis	1
	2	Whooping cough	10
Whooping cough	6		

Whooping cough

1 Deaths.

### SUMMARY OF MONTHLY REPORTS FROM STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week.

State.	Cere- bro- spinal menin- gitis.	Diph- theria.	Influ- enza.	Ma- laria.	Mea- sles.	Pella- gra.	Polio- my- elitis.	Scarlet fever.	Small- pox	Ty- phoid fever.
May, 1924					'					
Arizona		17			242			58	21	16
Hawaii	2 8	20 327	20 2		32 574			810	168	17
Montana	2	35	10		154			107	117	41 9
MIOHIGHS		30	10		101			107	117	9

### Number of Cases of Certain Communicable Diseases Reported for the Month of April, 1924, by State Health Officers.

State.	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever	Small- pox.	Tuber- culosis.	Typhoid fever.	Whoop ing cough,
Alabama	241	35	1, 705	373	31	274	1 150	41	23
Arizona	31	23	417	14	42	3	155	3	-0,
Arkansas	192	12	1, 295	155	15	48	177	22	179
California	2, 113	1, 089	6, C41	343	1, 198	1,746	1, 129	159	239
Colorado	188	213	1,705	327	162	3	175	3	100
Connecticut	231	154	632	611	719	10	152	3	107
Delaware District of Columbia	21	15	33	16	63		14	J	16
Florida	243	35	90		165	15	102	4	32
Georgia	109	41	405	. 90	37	25	131	40	6F
Idaho	115	42 13	329	163	36	393	1 69	12	90
Illinois	1.464	577	3, 606	1, 953	28			2	
Indiana	335	214	2, 494	1, 955	1, 148 432	111	1, 482	58	550
Iowa	56	53	299	229	207	604 71	113	, 41	274
Kansas	307	116	3, 308	1, 294	284	239	291	(2)	23 351
Kentucky 3	٠	110	0,000	1, 201	201	209	291	11	391
Louisiana	39	104	753	5	65	55	1 148	43	22
Maine	00	45		J	129	9	. 140	12	22
Maryland	499	137	1,368	171	619	18	224	30	172
Massachusetts	817	675	4, 196	1, 671	1, 723	10	638	31	394
Michigan	960	473	3, 275	1, 630	1, 416	680	916	52	342
Minnesota	663	199	844	1,000	1,009	269	146	39	168
Mississippi	787	66	4.417	1, 139	27	121	317	59	1, 262
Missouri	212	192	1,567	548	508	65	153	ii	247
Montana	50	37	552	7	109	88	63	6	14
Nebraska 5									
Nevada 5									
New Hampshire									
New Jersey New Mexico	908	391	3, 410		741	20	439	24	573
New York	101	51	1, 079	62	30	2	46	11	10
North Carolina	2, 299	1, 426	14, 352	2, 682	2, 936	13	2, 063	110	2,020
North Dakota	, 817 29	99 32	6, 294		223	661		25	1, 380
Ohio	1, 324		504	15	131	63	9	3	68
Oklahoma 5	1, 324	431	3, 415	2, 488	1, 329	661	863	66	1, 151
Oregon	98	109	437	28					
Pennsylvania	2, 219	995	2,892	3, 501	103	107	63	5	50
Rhode Island	57	70	75	3, 301	1, 678 509	18		55	. 1, 293
South Carolina	113	134	331	164	8	73	39 11	10	155
South Dakota	64	49	906	7 7	250	10	16	10	27
l'ennessee		20	500	'	200	10	10	- 4	-1
Texas 3									
Utah 4									
ermont	79	12	335	72	54	4	1 21	2	158
/irginia	896	96	2,648		138	27	1 270	46	2, 065
Washington	351	. 121	822	112	214	253	157	21	75
West Virginia	170	64	394		95	47	74	25	
Wisconsin	838	179	1, 559	87	1,005	135	160	23	574
Wyoming	57	10	451	49	10	i		2	8

Pulmonary.
Reports not required by law.
Reports received weekly.
Reports received annually.
Reports not received at time of

Reports not received at time of going to press.

Case Rates per 1,000 Population (Annual Basis) for the Month of April, 1924.

			1	7	<del></del>	T			
State.	Chicken pox.	Diph- theria.	Measles	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Typhoid fever.	Whoop- ing cough.
Alabama	1. 20	0. 17	8. 51	1.86	. 15	1. 37	1 0, 75	0, 20	1. 18
Arizona	.96	.71	12.90	. 43	1.30	.09	4.80	. 09	. 12
Arkansas	1.28	.08	8.61	1.03		. 32	1.51	. 15	1. 19
California	6.59	3. 40	20.70	1.07	3. 73	5.44	3. 52	. 50	. 75
Colorado	2.28	2. 59	20.70	3.97	1.97	.04	2. 12	.01	1, 21
Connecticut	1.87	1. 25	5. 13	4.96	5.83	.08	1. 23	. 02	. 87
Delaware	1. 10	. 79	1. 73	. 84	3. 30		. 73		1.00
District of Columbia	6.78	. 98	2.51		4.60	. 42	2.84	. 11	. 89
Florida	1. 24	. 47	4.62	1. 03	. 42	. 29	1.50	. 46	. 75
Georgia	. 46	. 17	1. 33	. 66	. 15	1.58	1.29	. 05	. 36
Idaho		. 33			. 71			. 05	
Illinois	2.60	1. 02	6.40	3. 46	2.01	. 20	2.63	. 10	. 98
Indiana	1. 35	. 86	10.02		1.74	2. 43	1.45	. 16	1. 10
Iowa	. 27	. 26 . 78	1. 47 22. 35	1. 12	1.02	. 35		(9	. 11
Kansas	2.07	. 18	22. 33	8. 74	1. 92	1.61	1. 97	. 11	2. 37
Kentucky 3	. 26	. 68	4. 93	. 03	. 43	. 36	1.97		
Louisiana	. 20	.70	4. 90	. 03	2.02	. 14	1.97	. 28	. 14
Maine Maryland	4.00	1. 10	10.97	1. 37	4.96	.14	1.80	. 19	1. 38
Massachusetts	2.44	2. 02	12.55	5. 00	5. 16	.14	1. 91	. 24	1. 38
Michigan	2.88	1. 42	9.83	4. 89	4. 25	2.04	2. 75	. 16	1. 18
Minnesota	3. 20	. 96	4.07	4.00	4.86	1.30	. 70	19	. 81
Mississippi	5. 36	. 45	30.09	7. 76	. 18	. 82	2. 16	. 40	8. 60
Missouri	. 75	.68	5. 53	1. 93	1.79	. 23	. 54	.01	.87
Montana	.97	. 72	10. 71	. 14	2.11	1, 71	1. 22	.12	. 27
Nebraska 5						2,,,	2. 22		
Nevada 5									
New Hampshire 4				- <b></b>					
New Jersey	3. 22	1. 39	12.08	<del></del>	2.63	. 07	1. 56	. 09	2. 03
New Mexico	3. 28	1.66	35. 04	2. 01	. 97	.06	1.49	. 36	. 32
New York	2. 56	1. 59	15. 96	2. 98	3. 26	. 01	2. 29	. 12	2. 25
North Carolina	3. 66	. 44	28. 20		1.60	2.96		. 11	6. 18
North Dakota	. 52	. 57	9. 05	. 27	2.35	1. 13	. 16	. 05	1. 22
Ohio	2.60	. 85	6. 70	4.88	2.61	1. 30	1.69	. 13	2. 26
Oklahoma					{ <u>-</u>				
Oregon	1. 43	1. 59	6. 39	. 41	1.51	1. 56	. 92	. 07	. 73
Pennsylvania	2.94	1. 32	3. 83	4. 64	2. 22	. 02		. 07	1. 71
Rhode Island	1. 10 . 78	1. 35 . 93	1. 45 2. 29	1. 43	9.81		. 75	.06	. 17
South Carolina	1. 18	.93	16.72	1. 14 . 13	. 06	. 51	. 08	. 07	1.07
Bouth Dakota		.80	10. 12	. 13	4. 61	. 18	. 30	. 04	. 50
remessee	-								•
Utah 4	-								·
Vermont	2. 73	. 42	11.60	2, 49	1. 87	. 14	. 73	.07	5, 47
Virginia	4.51	. 48	13. 33	a. 10	. 69	. 14	1 1. 36	. 23	10. 39
Washington	2.94	1.01	6.89	. 94	1. 79	2. 12	1. 32	. 18	. 63
West Virginia	1. 32	. 50	3. 05		. 74	. 36	. 57	. 19	. 00
Visconsin	3. 69	. 79	6. 87	. 38	4. 43	. 59	.70	. 10	2. 53
Wyoming	3. 21	. 56	25. 37	2.76	. 56	.06		ii	. 45
	ı	1	1	-	_	- 1			

### RECIPROCAL NOTIFICATION, MAY, 1924.

Cases of communicable diseases referred during May, 1924, to other State health departments by departments of health of certain States.

Referred by—	Measles.	Scarlet fever.	Smallpox.	Tubercu- losis.	Typhoid fever.
Illinois_ New Jersey_			2	21	
Minnesota New York	1	4	3	40	9 2
		_			_

<sup>Pulmonary.
Reports not required by law.
Reports received weekly.
Reports received annually.
Reports not received at time of going to press.</sup> 

# PLAGUE-INFECTED GROUND SQUIRRELS IN SAN LUIS OBISPO COUNTY, CALIF.

Under date of June 24, 1924, five more plague-infected ground squirrels were reported found in San Luis Obispo County, Calif., making a total of eight infected squirrels found in June to that date. Four of these were in a batch of 25 squirrels that had been shot. All of the squirrels were from a ranch about 10 miles northeast of San Luis Obispo.

### OUTBREAK OF SMALLPOX AT PITTSBURGH, PA.

An outbreak of smallpox was reported from Pittsburgh, Pa., July 4, 1924. Thirty-two cases with six deaths had been recently reported in that city.

### TYPHUS FEVER, RIO GRANDE, TEX., AND VICINITY.

Under date of July 3, 1924, six cases of typhus fever were reported in Rio Grande, Tex., and vicinity.

### GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.

Diphtheria.—For the week ended June 21, 1924, 35 States reported 1,490 cases of diphtheria. For the week ended June 23, 1923, the same States reported 1,114 cases. One hundred and one cities, situated in all parts of the country and having an aggregate population of more than 28,500,000, reported 871 cases of diphtheria for the week ended June 21, 1924. Last year for the corresponding week they reported 732 cases. The estimated expectancy for these cities was 831 cases. The estimated expectancy was based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty States reported 6,075 cases of measles for the week this year and 12,154 cases for the week last year. One hundred and one cities reported 2,309 cases of measles for the week this year and 3,643 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,107 cases; last year, 1,731 cases. One hundred and one cities—this year, 969 cases; last year, 866 cases; estimated expectancy, 528 cases.

Smallpox.—The reports of smallpox show that many communities suffer needlessly as the result of failure to vaccinate and revaccinate. Thirty-five States reported 895 cases of smallpox for the week ended June 21, 1924. For the corresponding week of last year they reported 371 cases of this disease. One hundred and one cities reported smallpox for the week as follows: 1924, 345 cases; 1923, 83 cases; estimated expectancy, 126 cases.

<sup>&</sup>lt;sup>1</sup> Three infected squirrels were reported under date of June 20, 1924. (Public Health Reports for July 4, 1924, p. 1641.)

1707 July 11, 1924

Typhoid fever.—Three hundred and eighty-four cases of typhoid fever were reported for the week ended June 21, 1924, by 34 States. For the corresponding week of 1923 the number was 422 cases. One hundred and one cities reported 133 cases of this disease for the week this year and 108 cases for the week last year. The estimated expectancy was 128 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 101 cities as follows: 1924, 530 deaths; 1923, 401 deaths.

#### City reports for week ended June 21, 1924.

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurence how many cases of the disease under consideration may be expected to occur during a certain week in the absence of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding week of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

	ī	1		1		f	1	<u> </u>	T		
		Diph	theria.	Influ	ienza.	36		Pncu-	Scarlet	fever.	
Division, State, and city.	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.	Mea- sles, cases re- ported.	Mumps, cases re- ported.	monia, deaths re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	
NEW ENGLAND.										/	
Maine: Lewiston Portland	1 2	1 2	0 7	0	0	21 3	0 26	0 1	3 1	6	
New Hampshire: Concord	0	0	0	0	0	4	0	0	0	0	
Vermont: Barre Burlington	0 2	8 1	0	0	0	0	0	1 0	0	1 1	
Massachusetts: Boston	21 1 3 2	48 3 3 4	55 7 5 4	0	0 0 0	111 3 14 6	13 0 15 2	16 0 1	27 2 2 4	55 2 8 5	
Rhode Island: Pawtucket Providence Connecticut:	0 0	1 8	2 5	0 · 0	0	0 4	. 0	0 4	0 5	3 14	
Bridgeport Hartford New Haven	2 4 11	4 4 3	7 5 0	0 0 0	0 0 0	1 8 14	0 9 6	0 0 4	3 4 1	12 8 3	
MIDDLE ATLANTIC.					l						
New York: Buffalo New York Rochester Syracuse New Jersey:	0 182 2 13	13 259 7 5	259 0 8	0 5 0 0	0 4 0 0	13 616 35 38	0 129 12 10	6 133 5 1	16 100 6 5	11 152 17 13	
Camden Newark Trenton	9	3 14 4	7 19. 5	0 3 1	0 0 0	1 105 9	6 0	3 7 2	13 1	9 23 4	
Pennsylvania: Philadelphia Pittsburgh Reading	49 52 10	50 16 2	46 17 3	ō	2 2 0	181 51 2	84 77 <b>3</b> 6	35 22 0	29 13 2	63 38 1	

	a	Diphtheria.		Influ	ienza.	<b>V</b>			Scarle	t fever.
Division, State, and city.	Chick- en pox, cases re- ported.	Cases, esti- mated expect- ancy.	ases, sti- tated re- ported. ported. Deaths re- ported. ported. sl Cases re- re- ported. ported.		Mea- sles, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.	
E. NORTH CENTRAL.										
Ohio:										
Cincinnati Cleveland Columbus	12 92	9 19 1	3 13	0 1	1 1	18 106	15 85	5 12	5 15 4	4 7
Toledo	34	5	0	0	0	0	2	4	11	0
Indiana: Fort Wayne		2	4	0	0	29		2	1	4
Indianapolis South Bend		5 1	3	0	0	29		6	7 2	7
Terre Haute	8	î	ō	0	9	1	0	ō	í	ī
Illinois: Chicago	118	103	55	0	0	248	101	54	54	117
Cicero	0	3	0	0	0	1 1	0	1	0	0
Peoria Springfield	5	1 1	0 1	ŏ	8	i l	1	3 2	2	0
Michigan: Detroit	122	49	30	2	0	92	31	26	39	
Flint	7	2	2	ő	ŏ	4	6	3	3	55 1
Grand Rapids Saginaw	i	2	····· <sub>2</sub> -			12		····-i-	3	<del>-</del> 7
Wisconsin:	7	اه	1	0	1		3	I	1	
Madison Milwaukee	102	12	1 9	Ō	0	2 27	21	8	0 18	1 18
Racine Superior	7 2	1 1	2 2	0	0	0 2	8	0	1	5 2
W. NORTH CENTRAL.	1	1		Ĭ	"	1	"	1	1	2
Minnesota:						.	- 1	1		
Duluth	4	.1	.0	0	0	13	2	1	2	9
Minneapolis St. Paul	73	11	11 18	0	1 0	6	2	4	14 9	29 10
owa: • Des Moines	اه	1	3	0	- 1	0	0		3	
Sioux City	0	1	2	0 .		0	0   -		2	2 1
Waterloo Missouri:	2	1	0	0  -		2	4  -		3	0
Kansas City	7	5	2	0	0	8	12	9	2	4
St. Joseph St. Louis	0 26	27	27	0	0	36	1 42	1	11	0 69
North Dakota:	1	- 1		- 1	- 1	ı	ŀ		į	
Fargo Grand Forks	8	1 0	1 0	0	8	0	0	3 0	1	1
outh Dakota: Aberdeen	0 .		0	0 .	İ	7	0 -	- 1		
Sioux Falls	3	0	ŏ	8 -	0	4	8 -	1	0	1 0
Vebraska: Lincoln		1	0	0	o	۔ ا ہ	1	0	1	1
Omaha	5	3	š	ŏ	ŏ	6	0	9	5	2
Cansas: Topeka	2	2	1	اه	اه	2	10	1	1	2
Wichita	8	0	Ō	ō	ŏ	3	5	î	ī	ī
SOUTH ATLANTIC.										
Delaware: Wilmington	1	2	2							-
Iaryland:		l l	- 1	0	0	2	0	0	2	7
Baltimore Cumberland	51	12	17	0	2	94	15	20	12	30 0
Frederick	0	ŏ	ŏ	ŏ	ŏ	2	0	0	ő	ŏ
District of Colum-	- 1	- 1	- 1	ı	l	l		l		
Washington	0	7	3	1	1	6 -		6	7	14
Lynchburg	2	0	1	0	٥٠	0	9	1	1	0
Norfolk	4 5 4	1 2	0 2	0	0	59	2	0	1 1	0
Roanoke	4	2 2	ĩ	ô	ō	10	0	3 0	ô	ĭ
Vest Virginia: Charleston Huntington	1 1	1 1 1	0	0	0	27 0	6	2	1	0

City reports for week ended June 21, 1924--Continued.

	re- mated re-		theria.	Infl	ienza.				Scarle	t fever.
Division, State, and city.			Cases re- ported.	Cases Deaths		Mea- sles, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Cases, esti- mated expect- ancy.	Cases re- ported.
south atlantic- continued.										
North Carolina: Raleigh Wilmington Winston-Salem	2 0	0 0 0	0 0 0	0	0	0 7 0	0	0 0 3	0 0 1	0 0 5
South Carolina: Charleston Columbia Greenville Georgia:	0 1 0	0 0 0	0	0 0 0	0 0	0 1 0	1 3 0	1 0 0	0	0 1 0
Atlanta Brunswick Savannah Florida:	0 0 0	0 0 1	2 0 0	0	1 0 0	0	1 0 0	8 0 0	2 0 1	4 0 0
St. Petersburg. Tampa	0	<u>i</u>		0	0	····o		θ	ō	·····ō
E. SOUTH CENTRAL.										
Kentucky: ('ovington Lexington Louisville	1 2 1	1 0 4	1 0 1	0 0 1	0	0 4 7	0 0 0	1 1 2	1 0 1	0 1 0
Tennessee:  Memphis  Nashville  Alabama:	1	1 1	1 0	0	0 2	3 5	1	2 2	1 1	2 0
Birmingham Mobile Montgomery	22 0 0	1 1 1	1 0 0	1 0 0	1 0 0	7 4 0	26 0 1	5 0 0	2 0 1	2 0 2
W. SOUTH CENTRAL.								į		
Arkansas: Fort Smith Little Rock Louisiana:	3 3	0	8	0		0	1 3	4	1 0	4
New Orleans Shreveport Oklahoma:	0	4	13	3	0	0	3	5	2	3 0
Oklahoma Tulsa Texas:	0 2	1 0	0	0	0	1 3	0 2	2	1 0	0
Dallas Galveston Houston San Antonio	23 1 0 0	2 0 1 2	0 2 0	0	2 0 0 1	0 0 0	0	6 2 2 4	2 0 1 0	0 0 2 0
MOUNTAIN.		İ							-	
Montana: Billings Great Falls Helena Missoula	5 1 0 0	0	0 3 1 0	0	0	1 0 0	0 0 0	0 1 1 0	0 2	0 0 0
daho: Boise	1	0	0	0	0	1	0	0	1	0
Colorado: De <b>nver</b> Pueblo	27	9 2	13 5	0	8	16	6	4 0	7	9
New Mexico: Albuquerque	0	2	0	0	0	2	0	0	1	0
Salt Lake City.	27	2	8	0	0	8	1	2	3	1
Reno	0	0	0	0	ol	4	0	1	0	0

								-		-					
		D	iph	theria.	In	fluen	za.				T			Scarle	t fever.
Division, State, and city.	Chick- en pox, cases re- ported.	Cas est mat expe	i- ed ct-	Cases re- ported.	Case re- porte	- 1	Deat re- orted	hs	Mea- sles, cases re- corted.	Mump cases re- portes	os, me	neu- on ia, eaths re- orted.	ı e	Cases, esti- mated expect- ancy.	Cases re- ported.
PACIFIC.						ļ									
Washington: Seattle Spokane Tacoma	36		4 2 1	14		0			5		7			7 2 1	12
Oregon: Portland	1		4	4		0	0	,	1		0	3		6	11
California: Los Angeles	33	:	22	64		2	Q		127	1		16		8	30
San Francisco	30 30	]	1 16	36		3	0		6	10	5	1 3		10 10	0 17
<u> </u>						Smal	lpox		deaths	Ту	phoid	l feve	r.	cases	
Division, State,	and city	•		Popula- tion, July 1, 1923, timated.	Cases, estimated expectancy.	Cases reported		Deaths reported.	Tuberculosis, d	Cases, estimated expectancy.	Cases reported.	1	Dearns reported.	Whooping cough, reported.	Deaths, all causes.
NEW ENGLA	AND.					l									
Lewiston Portland New Hampshire:				33, 790 73, 129	0		0	0			l i		0		14 13
Concord Vermont:				22, 408	0		0	0	0	0	(		0	0	4
				*10, 008 23, 613	0		0	0			0		0	1 1	3 5
Boston Fall River Springfield Worcester Rhode Island:				770, 400 120, 912 144, 227 191, 927	0 0 0		0 0 0 0	0 0 0 0	20 1 7 1	2 2 1 1	5 0 0 0		1 0 0 0	8 1 3 0	206 27 39 39
Pawtucket Providence Connecticut:				68, 799 242, 378	0		0	0	1 9	· 0	0		0	0	27 78
Bridgeport Hartford New Haven			*	143, 555 138, 036 172, 967	0	(		0 0 0	4 2 2	1	0		0	2 0	31 29
MIDDLE ATLA				112, 501	Ů	,		U	*	1	1		0	3	33
New York: Buffalo New York Rochester Syracuse New Jersey:			5,	536, 718 927, 625 317, 867 184, 511	0 1 0 0	1 0 0 3		0 0 0	12 1 103 3 0	. 14 . 0 0	0 55 0 0		0 3 0	17 220 1 2	123 1, 279 73 38
			4	124, 157 138, 699 127, 390	0	1 0 5	) ]	0 0 0	1 14 5	1 1 1	0 1 0		1 0	4	34 91 36
Philadelphia Pittsburgh Reading			6	922, 788 513, 442 110, 917	0	0 0 0	1	0 1 0	44 11 3	8 2 1	2 0 0	(	000	71 34 6	460 164 26
EAST NORTH CEN	TRAL.														
Cincinnati Cleveland Columbus			4 8 2	06, 312 88, 519 61, 082 68, 338	1 3 1 2	18 17		0	12 20	2 3 1	2 2	0		2 77	113 172
Toledo		1	2	68, 338 l	2	12	1	0	10	2	0	(	)	17	70

<sup>\*</sup> Population Jan. 1, 1920.

		8	mallpo	x.	deaths	Ту	phoid f	ever.	cases	
Division, State, and city.	Popula- tion, July 1, 1923, estimated.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Tuberculosis, d reported.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough, reported.	Deaths, all causes.
EAST NORTH CENTRAL—con.										
Indiana: Fort Wayne	93, 573 342, 718 76, 709	1 6 0	1 33	0	0	0 1 0	0	0		29 80
Terre Haute	68, 939	0	3	0	1	0	0	0	2	15
Illinois: Chicago Cicero Peoria Springfield	2, 886, 121 55, 968 79, 675 61, 833	1 0 0 2	4 0 0 0	0 0 0	56 0 0 2	4 0 0 0	6 0 0	0 0 0	53 2 1	617 5 26 19
Michigan: Detroit	995, 668 117, 968	10 0	<b>29</b> 8	7 0	21 1	4	1 0	0	37 0	217 21
Grand RapidsSaginaw	145, 947 69, 754	0	0	0	0	0	<u>2</u>		3	15
Wisconsin: Madison Milwaukee Racine	42, 519 484, 595 64, 393	0 5 0	0 0 2	0	1 3 0	0 2 0	0	0	11 8	7 96
Superior	*39, 671	2	3	ŏ	ŏ	ŏ	ŏ	ŏ		5 8
Minnesota: Duluth Minneapolis St. Paul	106, 289 409, 125 241, 891	2 16 4	2 4 12	0	0 4 6	0 1 1	0 1 1	0	6 6	22 54 58
Iowa: Des Moines Sioux City	140, 923 79, 662	4 2	7			0	0		0	
Waterloo Missouri: Kansas City	39, 667 351, 819	0 5	0		11	0	0	0	1 18	77
St. Joseph St. Louis North Dakota:	78, 232 803, 853	3	0	0	10	3	0	0	0 20	21 189
Fargo	24, 841 14, 547	0	0	0	0	0	0	0	0	10
A berdeen Sioux Falls Nebraska:	15, 829 29, 206	···i	8	0	0		8	•	0	8
Lincoln	58, 761 <b>204, 382</b>	2 2	7	0	8	0	0	0	0	7 51
TopekaWichita	52, 555 79, 261	2 5	5	0	0	0	0	8	3 5	9 22
SOUTH ATLANTIC Delaware:	l		İ		1	l	- 1	l		
Wilmington	117, 728	0	0	0	0	1	0	0	3	30
Baltimore	773, 580 32, 361 11, 301	0	0 0	0	10 0 0	5 0 0	0 0	0	30 0	187 7 4
District of Columbia: Washington	*437, 571	0	2	0	15	3	1	0	4	112
Lynchburg Norfolk Richmond Roanoke	30, 277 159, 089 181, 044 55, 502	1 0 0 1	0 0 1 0	0	1 6 3 1	0 1 1 0	1 1 0 0	0	5 1 4 15	69 16
Vest Virginia: CharlestonHuntington	45, 597 57, 918	1 0	0	0	1 3	2	1 0	0	0	18 16
Wheeling	*56, 208	0	. 0	0	0	2	0	0	9	26 11
Raleigh Wilmington Winston-Salem	29, 171 35, 719 56, 230	0	3	0	3	0	0	0	0	18 31

<sup>\*</sup> Population Jan. 1, 1920.

<sup>1</sup> Pulmonary only.

			Smal	llpox.		deaths	Ту	phoid	oid fever.		g
Division, State, and city.	Popula- tion, July 1, 1923, estimated	Cases, estimated	expectancy.	Cases reported.	Deaths reported.	Tuberculosis, de reported.	Cases, estimated expectancy.	Cases reported.	Deaths reported.	Whooping cough, cases	Deaths, all causes.
SOUTH ATLANTIC—continued.  South Carolina: Charleston	71, 245 39, 688 25, 789	3	1 0 1	1 1 1 1	0 0	5 0 0	3 1 1		3	1	0 34 1 20 1 4
Atlanta Brunswick Savannah Florida:	15, 937 89, 448		5 2 0 0	0 0	0	9 1 0	1 2 2		3   6	0	0 89 0 2 0 24
St. PetersburgTampa	24, 403 56, 050		0	0	0	···i	1	2	ij d	5	0 24
Kentucky: Covington Lexington. Louisville Tennessee:	57, 877 43, 673 257, 671		L .	0 0 1	0 0 0	1 2 6	0 0 2	0 0 2	Ì		14
Memphis Nashville Alabama:	170, 067 121, 128	1	: ا	1 3	0	3	1 4	3 1	0		- 40
Birmingham Mobile Montgomery WEST SOUTH CENTRAL.	195, 901 63, 858 45, 383			8 0 2	0	7 1 1	5 2 1	4 2 1	0 0		_ 25
Arkansas: Fort Smith Little Rock Louisiana:	30, 635 70, 916	0			ō	2	0 2	0 3	0	- 0	
New Orleans Shreveport Oklahoma: Oklahoma	404, 575 54, 590	2	- 2	2	0	14 0	4	3	1 0	0	18
Tulsa Texas: Dallas	101, 150 102, 018 177, 274	5 1	4		0	0	1 2 3	0 1 0	0	0 2	23
Galveston Houston San Antonio	46, 877 154, 970 184, 727	0 3 1	0 2		Ŏ 0 0	0 5 10	1 2 1	0 0 2	0 0 0	5 0 0	15 47 63
MOUNTAIN. Montana: Billings	16, 927	0			0						
Great Falls Helena Missoula Idaho:	27, 787 *12, 037 *12, 668	1	1 1 0 8		0	0 -	1 0	0 0 0	0 0 0	0 1 0 0	5 5 4
Boise Colorado: Denver	22, 806 272, 031	1	0	1		0	0	0	0	0	5
New Mexico:	43, 519	10 0	0		9	5	0	3	0	30 0	57 14
Albuquerque	16, 648 126, 241	0 4	0			1	0	0	0	0	9 31
Reno	12, 429	0	0	0		0	0	0	0	0	2
Washington: Seattle Spokane Tacoma	*315, 685 104, 573 101, 731	4 4 2	5				0 -	2		3	<b>-</b>
Oregon: PortlandCalifornia:	273, 621	. 7	2	0	1	1	0 -	0	0	0	
Los Angeles Sacramento San Francisco	666, 853 69, 950 539, 038	1 0 1	42 0 5	0		28 1 13	1 2	6	0	16 0 2	262 28 121

<sup>\*</sup>Population Jan. 1, 1920.

City reports for week ended June 21, 1924—Continued.

	Cerebi meni	rospinal ngitis.		nargic halitis.	Pell	agra.		yelitis (i paralysis	
Division, State, and city.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, est. ex- pect- ancy.	Cases.	Deaths.
NEW ENGLAND.									
Massachusetts: Boston	2 0	2	1 0	0	0	0	0	1 0	0
Providence	1	1	0	0	0	0	0	0	0
New York:								_	_
New York	3 0	3	3	0	0	0	2 0	2 4	2 0
New Jersey: Newark	1	0	0	0	0	0	0	0	0
Pennsylvania: Philadelphia	0	0	2	0	0	0	0	0	0
EAST NORTH CENTRAL.									
Ohio: . Cleveland	1	0	0	0	0	0	0	0	0
Illinois: C'hicago Peoria	0	0	1	0	0	0	1 0	0	0
Michigan:	- 1	i i		1			- 1		_
Detroit Flint	1 0	0 0	1	0 1	0	0 0	0	0	0
WEST NORTH CENTRAL.									
Nebraska: Lincoln Omaha	1 0	1 0	0 1	0 1	0	0	0	0	0
SOUTH ATLANTIC.						-			
Delaware: Wilmington	0	0	0	0	. 0	0	0	1	0
Maryland: Baltimore	0	0	0	1	0	0	0	0	0
North Carolina: Winston-Salem	0	0	0	0	2	1	0	o	0
South Carolina: Charleston Columbia	0	0	8	0	0	1 3	0	0	0
Georgia:	0	0	0	0	0	1	0	0	0
Savannah	ŏ	ŏ	ŏ	ŏ	ĭ	î	ŏ	ŏ	ŏ
EAST SOUTH CENTRAL.						ļ			
Alabama: Birmingham	0	0	0	o	2	. 1	o	o	0
WEST SOUTH CENTRAL.									
Arkansas: Little Rock	o	o	0	0	2	1	o	o	0
Louisiana: Shreveport	0	o Ì	0	0	0	1		0	.0
Texas: Dallas	0	o	o	0	o	1	0	0	0
PACIFIC.							ľ		
California: San Francisco	0	٥	1	اه	0	٥	ò	اه	. 0

The following table gives a summary of the reports from 105 cities for the ten-week period ended June 21, 1924. The cities included in this table are those whose reports have been published

for all ten weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923 which is the latest date for which estimates are available. cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

Summary of weekly reports from cities, April 13 to June 21, 1924. DIPHTHERIA CASES.

				1	924, we	ek ende	d			
	Apr. 19.	Apr. 26.	May 3.	May 10.	May 17.	May 24.	May 31.	June 7.	June 14.	June 21.
Total	1,009	988	910	892	930	927	869	919	909	87
New England	99	111	97	83	78	94	85	90	73	,
New England	374 211	400 156	344 173	395 157	357 168	340 175	1 130	387	405	3€
West North Central	60	71	68	64	110	106	80	150 76	<sup>2</sup> 155 55	3 13
South Atlantic East South Central	52	50	38	31	42	32	4 33	441	35	1 :
West South Central	14 31	13 33	18	8 26	16	8 18	18	8 18	17	,
Mountain	52	31	35	29	18	30	14	37	15	1 8
Pacific	116	123	131	99	138	124	134	112	148	6 13
		MI	SASLE	CASI	cs.	•	•		·	
Total	5, 147	5, 203	4, 730	4, 422	4, 019	3, 716	2, 943	3, 240	2, 846	2, 30
New England	353	354	379	339	271	310	227	247	175	16
Middle Atlantic	2, 347	2, 184	2, 310	1,889	1,868	1, 571	1. 231	1, 483	1, 287	1, 05
East North Central	675	829	703	862	781	873	1 733	747	2 755	3 57
West North Central	359 487	350	257 485	274	197	128	124	130	97	8
South AtlanticEast South Central	159	518 173	98	457 73	465 56	468 56	4 344 47	4 317 36	317	21
West South Central	188	127	104	71	51	33	28	30 19	32 11	2
Mountain	179	193	113	97	100	79	70	50	20	3
Pacific	400	475	281	360	230	198	139	211	152	5 14
	8	CARL	ET FE	VER C	ASES.		· · · · · · ·	14	·	
Total	1, 658	1, 532	1, 605	1, 549	1, 503	1, 311	1, 213	1, 244	1,065	969
New England	253	271	242	210	213	165	168	181	143	111
Middle Atlantic East North Cental	474	467	473	470	452	406	380	401	335	322
East North Cental	334	284	325	318	336	279	1 259	243	2 249	3 250
West North Central South Atlantic	222 189	195	197	219	223	182	167	182	160	12
East South Central	16	168 12	171 16	159 19	118	134	4112	1121	92	56
West South Central	27	18	23	15	14	14	8 11	11	6 12	6
Mountain	19	23	27	37	25	30	17	17	3	13
Pacific	124	94	131	102	113	92	91	77	65	5 74
		SMA	LLPOX	CASI	ES.				<b>-</b> -	
Total	467	568	543	460	529	408	331	472	335	345
New England	1	0	0	0	0	0	0	0	0	
Middle Atlantic East North Central	Ö	Ö	Ŏ.	0	5	ĭ	ĭ	8	7	9
East North Central	164	193	186	165	213	181	1 149	174	1 158	3 121
South Atlantic	41 93	62 98	53 70	33 95	39	26	19	40	33	34
East South Central	26	55	49	20	51 54	54 33	4 29 36	107	44 22	35 65
West South Central	5	2	4	1	7	8	7	5	7	8
Mountain	10	6	5	6	6	3	7	2	6	10
Pacific	127	152	176	140	154	104	83	97	58	8 63

Figures for Columbus, Ohio, estimated. Report not received at time of going to press.
 Figures for Flint, Mich., estimated.
 Figures for Columbus, Ohio, Grand Rapids, Mich., and South Bend, Ind., estimated.
 Figures for St. Petersburg, Fla., estimated.
 Figures for Spokane and Tacoma, Wash., estimated.

### Summary of weekly reports from cities, April 13 to June 21, 1924—Continued. TYPHOID FEVER CASES.

				19	24, wee	k ended	!			
	Apr. 19.	Apr. 26.	May 3.	May 10.	May 17.	May 24.	May 31.	June 7.	June 14	June 21
Total	55	58	49	68	73	78	78	92	107	· 133
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	4 17 7 6 4 4 4 4 5	7 11 10 1 8 8 6 0 7	10 11 3 11 3 3 11 3 3	9 25 9 2 11 3 3 3	2 32 12 3 8 7 3 0 6	6 24 7 8 18 6 5 2 2	9 18 16 5 413 11 10 1 5	3 30 11 8 12 7 13 0 8	7 46 29 5 10 8 13 0	8 58 3 12 4 16 13 8 4 5 10
		INFL	JENZA	DEA'	rhs.					
Total	80	72	51	60	49	40	30	21	15	22
New England Middle A tlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	3 31 14 4 6 11 4 3	3 30 12 4 10 8 3 2	2 21 7 3 5 3 4 0 6	2 32 10 3 7 4 0	1 25 5 4 5 4 3 1	2 10 11 3 6 3 1	1 10 1 10 1 4 5 1 1 0	1 5 3 2 4 3 2 2 0 3	1 6 22 2 1 3 0 0	0 8 12 1 5 3 0 0

#### PNEUMONIA DEATHS.

Total	1, 101	959	935	782	743	644	630	590	575	508
New England. Middle Atlantic. East North Central. West North Central South Atlantic. East South Central West South Central West South Central Mountain Pacific	61 474 232 64 118 57 43 25 27	63 430 170 49 114 42 35 26 30	69 392 199 53 97 44 24 27 30	55 332 150 42 93 29 25 24	52 343 139 41 86 22 27 13 20	36 285 136 38 64 32 27 11	34 267 1 131 40 4 60 40 14 18 26	37 276 118 22 466 18 18 14 21	46 250 2 109 40 52 20 27 15	28 208 3 124 34 50 12 23 9

- Figures for Columbus, Ohio, estimated. Report not received at time of going to press.
   Figures for Flint, Mich., estimated.
   Figures for Columbus, Ohio, Grand Rapids, Mich., and South Bend, Ind., estimated.
   Figures for St. Petersburg. Fla., estimated.
   Figures for Spokane and Tacoma, Wash., estimated.

Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923.

Number of cities report- ing cases.		Aggregate population of cities reporting cases.	Aggregate population of cities reporting deaths.
105	97	28, 898, 350	28, 140, 934
12	12	2, 098, 746	2, 098, 746
. 10			10, 304, 114
. 17	17	7, 032, 535	7, 032, 535
14	11	2, 515, 330	2, 381, 454
22	22	2, 566, 901	2, 566, 901
7	7	911, 885	911, 885
. 8	6	1, 124, 564	1, 023, 013
9	9	546, 445	546, 445
6	3	1, 797, 830	1, 275, 841
	of cities reporting cases.	of cities reporting cases. of cities reporting cases. left seed of the control of the cities of cities reporting deaths. left seed of the cities reporting d	of cities reporting cases.  105 97 28,898,350  112 12 2,098,746  117 17 7,7032,535  14 11 2,515,330  22 22 22,566,901  7 7 911,885  8 6 1,124,564

### FOREIGN AND INSULAR.

#### BOLIVIA.

### Communicable Diseases-La Paz-May, 1924.

During the month of May, 1924, communicable diseases were reported at La Paz, Bolivia, as follows:

Disease.	Cases.	Deaths.	Disease.	Cases.	Deaths.
Cerebrospinal meningitis Diphtheria Influenza Measles	1 2 5	1 5 3	Scarlet fever	7 2 16	9 4 11 1

### Dysentery-Smallpox in Surrounding Country.

During the period under report, three cases of dysentery with four deaths were reported at La Paz. Smallpox was stated to be present in the surrounding country.

#### CHILE.

### Plague—Smallpox—Antofagasta.

During the week ended June 7, 1924, one case of plague was reported at Antofagasta, Chile. Under date of June 11, 1924, six cases of plague and two cases of smallpox were reported under treatment at the lazaretto.

#### CUBA.

#### Communicable Diseases-Habana.

Communicable diseases have been notified at Habana as follows:

	June	June 11-20, 1924.			
Disease.	New cases		Deaths.	ing under treatment June 20, 1924.	
Diphtheria Leprosy		4		4	
Measles Paratyphoid fever		20 4	4	1 32 5	
Scarlet fever. Typhoid fever.		2 20	4	2 2 2 41	

<sup>&</sup>lt;sup>a</sup> One fatal case reported as typhoid malaria.
<sup>1</sup> From the interior, 12.
<sup>2</sup> From the interior, 17.

### Malaria-Typhoid Fever-Santiago.

During the week ended June 14, 1924, malaria and typhoid fever were reported present at Santiago de Cuba.

#### ECUADOR.

#### Quito-Correction.

Reports of plague and typhus fever in Quito, Ecuador, published in the Public Health Reports dated February 8, 1924, on page 274 and in that issue and subsequent issues in the table of foreign reports of plague, smallpox, and typhus fever, were erroneous. No reports of plague or typhus fever have ever been received from Quito, nor was smallpox reported during November.

#### ESTHONIA.

#### Communicable Diseases-April, 1924.

During the month of April, 1924, communicable diseases were reported in the Republic of Esthonia, as follows:

Disease.	Cases.	Disease.	Cases.
Diphtheria	20	Scarlet fever	57
Leprosy.		Tuberculosis	226
Measles		Typhoid fever	56
Paratyphus fever		Typhus fever	23

Population, census of 1922-1,107,059.

#### GREECE.

#### Plague-Patras.

Under date of July 4, 1924, 16 cases of plague with one death were reported at Patras, Greece.

#### JAMAICA.

### Smallpox (Reported as Alastrim.)

During the week ended June 14, 1924, 33 new cases of smallpox (reported as alastrim) were notified in the Island of Jamaica. Of these, one case was reported for Kingston.

#### JAPAN.

#### Plague-Higashi.

Plague was reported present in the village of Higashi, Hamamura, Shizuoka prefecture, Japan, under date of June 24, 1924.

#### POLAND.

#### Communicable Diseases-March 30-April 12, 1924.

Communicable diseases were notified in Poland, during the period March 30 to April 12, 1924, as follows:

Mar. 30-Apr. 5, 1924.

Disease.	Cases.	Deaths.	District showing greatest number of deaths.
Cerebrospinal meningitis	8 80 134 232 47 158 127 350 3 41	3 12 5 23 1 10 37 1 11	Former Russian Poland. Lodz. Lwow. Warsaw and Polesia. Kielce. Former German Po'and. Warsaw. Volhynia. Former Austrian Poland.

#### Apr. 6-12, 1924.

Cerebrospinal meningitis Diphtheria Measles Scarlet fever Smallpox Typhoid fever Typhoid fever Wilcoping cough	2 70 111 201 43 186 324 37	15 2 2 9 5 24 40 3	Silesia. Volhynia and Lwow. Lwow. Tarnopol. Krakow. Krakow and Kielce. Lublin.
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Population, census of September, 1921, 27, 160, 163.

#### Dysentery-Rabies.

During the two weeks period ended April 12, 1924, 52 cases of dysentery with 6 deaths were reported in Poland. During the week ended April 12, 1924, one death from rabies was reported, the occurrence being in Lwow district.

### CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER.1

### Reports Received During Week Ended July 11, 1924.2

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India: CalcuttaRangoonSiam: Bangkok	May 18-24 do May 11-17	22 17 2	22 12 1	

Reports of plague, smallpox, and typhus fever at Quito, Ecuador, appearing in the Public Health Reports, Feb. 8, 1924, pp. 276 and 277, and in subsequent issues, were erroneous. No reports of these diseases at Quito have been received.
 From medical officers of the Public Health Service, American consuls, and other sources.

## CHOLERA, PLAGUE, SMALLPOX, AND TYPHUS FEVER-Continued.

### Reports Received During Week Ended July 11, 1924—Continued.

#### PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile: Antofagasta China: Foochow Greece: Patras India: Calcutta Karachi Madras Presidency Rangoon Japan: Shizuoka Prefecture— Higashi	June 1-7	16 2 3	5 1 2 2 2 1 9	Present.

### SMALLPOX.

				-,
Bolivia:		ł	1	
La Paz	May 1-31	. 2	4	Smallpox in surrounding country.
Brazil:	- 1,143	-	1 -	Smanpozinsurrounding country.
Porto Alegre	May 18-24	ļ	. 1	1
Rio de Janeiro				
British South Africa:		-		
Northern Rhodesia	May 6-12	. 13	1	Native.
Chile:		- 1	1 -	1140176.
Antofagasta	June 11	2	1	Under treatment at lazaretto
France:	1	-		onder treatment at lazaretto.
Paris	May 21-31	. 2		
Great Britain:	1	1 -		1
England and Wales	June 1-14	144	İ	
Derby	do	67	İ	
Northumberland	dodo	28		1
Nottingham	do	14		1
Yorks (North Rid-	do			1
ing).		1 -0		i
India:		1		
Calcutta	May 18-24	l	1	!
Karachi	May 25-31	14		ĺ
Madras	do			ł
Rangoon			4	
Jamaica.		"	-	June 8-14, 1924: Cases, 33. (Re-
Kingston	June 8-14	1		ported as alastrim.)
Japan:		_		ported as amount.)
Kobe	June 2-8	1		
Java:		-		
East Java—				
Soerabaya	Apr. 20-26	17	. 9	
Mexico:	• • • • • • • • • • • • • • • • • • • •			
Mexico City	May 18-31	32		
Salina Cruz	May 25-31	ī	1	
Tampico	June 14-20	2		
Pola <b>nd</b>				Mar. 30-Apr. 12, 1924: Cases, 90;
				deaths, 6.
Portugal:	i			
Lisbon	June 1-7	1		
Oporto	May 11-17	4	3	
Do	June 1-7	5	2	
Siam:	1			
Bangkok	May 11-17		1	
Spain:	1		ı	
Valencia	June 8-14	1		
Switzerland:		ĺ		
Berne	May 25-31	7		
Cunis:		1	ı	
Tunis	June 3-9	4		

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

### Reports Received During Week Ended July 11, 1924—Continued.

#### TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile: Concepcion Talcahuano Valparaiso Mexico: Mexico City	May 20-26	21	3	Mar 30-Apr 12 1024: Conse 324
Tunis: Tunkey: Constantinople	June 3–9	1 5	1	Mar. 30-Apr. 12, 1924: Cases, 67 deaths, 77. Recurrent typhu Cases, 3; deaths, 1.

#### Reports Received from June 28 to July 4, 1924.1

#### CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India Bombay. Calcutta. Rangoon Indo-China: Saigon Siam: Bangkok.	May 4-10 May 11-17 do Apr. 27-May 3 May 4-10	1 49 7 1	38 5 1	Apr. 20-May 3, 1924: Cases, 21,517; deaths, 16,219.

#### PLAGUE.

Argentina:		1	Т —	7	7
Ceylon:       Colombo       May 11-17       3       1       Plague rats, 2.         China:       Foochow       6       4       Apr. 2       1       1       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 24       Apr. 25       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 27       Apr. 28       Apr. 29			1		
Colombo		-	.	.	April, 1924: Cases reported.
China: Foochow			1 .	1	
Foochow	Colombo	-∤ May 11-17	3	1	Plague rats, 2.
Egypt.  City— Alexandria. Port Said. Suez. May 14-20. Province— Assiout. Apr. 1-May 25. Apr. 24-May 3. Province— Assiout. Apr. 1-May 25. Apr. 2-May 3. Apr. 2-May 3. Apr. 2-May 3. Apr. 37  Charkieh Jan. 31. Apr. 1. Apr. 1. Apr. 1. Apr. 1. Apr. 1. Apr. 1. Apr. 1. Apr. 1. Apr. 2. Apr. 1. Apr. 2. Apr. 1. Apr. 2. Apr. 1. Apr. 2. Apr. 1. Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 20-May 3, 1924: Cases, Apr. 1-15, 1924: Cases, 54; deaths, Apr. 1-15, 1924:		1	l	ł	
City—	Foochow	. do		.  6	
Alexandria				l	Jan. 1-May 29, 1924; Cases, 252;
Port Said   Suez	City—	1	1	1	deaths, 126.
Suez.	Alexandria			1	
Province	Port Said		1	<u></u>	.1
Assiout. Apr. 1-May 25. 37 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_ Suez	May 14-20	1		1
Charkieh					
Charkieh	Assiout	Apr. 1-May 25	37	28	1
Charblen	Charkieh	Jan. 31	i		l
Charpien	Fayoum	Feb. 18-May 29	76	21	
Ralioubleh	Gharbieh	Apr. 21	il	ī	
Ralioubleh	Girgeh	Jan. 17-May 13	10	3	
Kena	Kalioubieh	Jan. 6-May 22	10		
Menouffeh   Jan. 2-May 16.   43   28	Kena	Apr 9-May 17			
Minia.   Feb. 5-May 27   18   11	Menoufieh	Jan. 2-May 16			
India	Minia	Feb. 5-May 27			·
Bomhay	Lndia	1			Apr 20 Mars 2 1004. Com
May 11-17	Bombay	May 4-17	97	24	24 404: doothe 99 649
May 18-24   8   5	Calcutta	Mav   11–17			52,282, deaths, 28,048.
Madras Presidency	Karachi	May 18-24			
Fangoon	Madras Presidency	do	3		
Bagdad	Rangoon	May 11-17			
Apr. 20-May 10   51   35   Madagascar: Tananarive Province	raq:		12	19	
Madagascar:       Tananarive Province       Apr. 1-15       8       8       50.         Tananarive Town       Apr. 1-15       8       42       50.         Persia:       Bushire       1       1       In quarantine from vessel.	Bagdad	Anr. 20-May 10	51	92	
Tananarive Town Apr. 1-15	Madagascar:	11pt: 20 May 10	J. 1	90	
Tananarive Town Apr. 1-15	Tananarive Province		- 1		Amm 1 15 1004 Garage 54 1.46-
Other localities	Tananarive Town	Apr 1-15			
Persia:  Bushire  Apr. 1-30  1 1 In quarantine from vessel.	Other localities	do			50.
Bushire Apr. 1-30 1 In quarantine from vessel.	Persia:		40	42	
iam:		Ane 1_20	- 1		T
Penebeb 35 446	iam:	A. pr. 1-00	- 1	1	in quarantine from vessel.
2 2		May 4-10	اہ	اء	
17		May 1 10	2	2	

<sup>&</sup>lt;sup>1</sup> From medical officers of the Public Health Service, American consuls, and other sources. For reports received from Dec. 29, 1923, to June 27, 1924, see Public Health Reports for June 27, 1924. The tables of epidemic diseases are terminated semiannually and new tables begun.

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

### Reports Received from June 28 to July 4, 1924—Continued.

#### PLAGUE—Continued.

Canada:   Quebec   Montreal   June 8-14   1	Place.	Date.	Cases.	Deaths	Remarks.
Canada: Quebec	Union of South Africa				1924: Cases, 330; deaths, 201. (White, 48 cases; 22 deaths;
Quebec		SMAI	LPOX.		
China: Amoy	Oue <b>bec</b>	June 8-14	1		
Manchuria	China: Amoy	May 11-17			
Egypl: (*airo   Feb. 19-Mar. 11.   9	Manchuria— Dairen Harbin	May 12-18 May 13-19	1	2	
England and Wales	Egypt: ('airo	1			
Northumberland   .do	England and Wales County—	May 25-21			May 25-31, 1924: Cases 75.
India	Northumberland Nottingham	do	15		·
Madras	ing)India	May 4-17	172		Apr. 20-May 3, 1924: Cases, 7,121; deaths, 1,536.
Indo-China: Suigon	Karachi Madras	do	13 4	3 1	
Tang:   Bagdad	Indo-China:				Including 100 square kilometers
Messina	Bagdad	Apr. 20-May 10	6	1	or surrounding territory.
Topic   May 16-June 1.   1	MessinaJamaica				June 1-7, 1924: Cases, 42 (reported as alastrim).
Soerabaya	KobeJava:	May 16-June 1	1		
Guadalajara	SoerabayaLatvia	Apr 13-19	25	9	Apr. 1-30 1924: One case.
Samak	Guadala <b>jara</b> Mexi <b>co City</b>	Мау 1-31 Мау 4-17		1	Including municipalities in Federal District.
Siam:   Bangkok   Apr. 27-May 10.   3   3   Spain:   Barcelona   Year 1923: Cases, 160.	Portugal:	May 25-31	3		
Sarcelona   Year 1923: Cases, 160.   Sumatra:   Medan   Jan. 1-31   5	Siam: Ba <b>ngkok</b>				
Tunis:   May 27-June 2   3   Mar. 1-31, 1924: Cases, 55 (white, 4 cases; native, 52).   Outbreaks.   Do	Barcelona Sumatra:	Ion 1-21	5		Year 1923: Cases, 160.
Cape Province May 4-10 Outbreaks. Orange Free State do Do. Transvaal do Do On vessel	Tunis: Tunis	May 27-June 2			Mar. 1-31, 1924: Cases, 56 (white.
On vossel	Cape Province	May 4-10do			Do.
S. S. Karoa At Duroan, South Africa, from Bombay, India; vessel left Bombay Apr. 16, 1924. Patient, European.	On vessel: S. S. Karoa	May 7	1		At Durban, South Africa, from Bombay, India; vessel left Bombay Apr. 16, 1924. Pa-

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

### Reports Received from June 28 to July 4, 1924—Continued.

#### TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Algeria: Algiers China: Chungking Egypt: Cairo Germany: Hamburg		19 5 3	8	Widespread.
Iraq: Bagdad Latvia	ł	2		Apr. 1-30, 1924; Cases, 39 Pars
Mexico: Guadalajara Mexico City Tunis:	May 1-31	17	1	typhus, 1 case: paratyphus B. 1 case.  Including municipalities in Federal District.
Tunis	May 27-June 2	3		Mar. 1-31, 1924: Cases, 121 deaths, 13. (White—cases, 15 deaths, 1. Native—cases, 100
Cape Province				deaths, 12.) Mar. 1-31, 1924: Cases, 60; deaths 5.
Do				Outbreaks. Mar. 1-31, 1924: Cases, 2. Mar. 1-31, 1924: Cases, 19; deaths, 3.
Transvaal Johannesburg	May 11-17	<u>i</u> -		Mar. 1-31, 1924: Cases, 25; deaths