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A COMPARATIVE STUDY OF RAT-FLEA DATA FOR SEVERAL SEAPORTS OF THE UNITED STATES

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Introduction

Bubonic plague, in so far as is known, has never made its appearance along the Atlantic seaboard of the United States, notwithstanding the large ports of entry which have constant communication with plague-infected districts and the presence of rats and rat fleas. On the other hand, plague has appeared in mild epidemic form in San Francisco and Los Angeles, Calif., and New Orleans, La., and has been reported from Seattle, Wash., Galveston and Beaumont, Tex., and Pensacola, Fla., but in these ports climatic conditions are entirely different from those found on the North Atlantic coast. Surg. H. McG. Robertson, of the United States Public Health Service, has suggested (1) that the absence of plague may be accounted for by the effect of cold weather on flea breeding and flea longevity, tending to cause a partial disappearance of rat fleas or to reduce them to a safe minimum during a greater part of the year.

It is a well-known principle in epidemiology that the mere presence of an insect is not sufficient to produce an epidemic of insect-transmitted disease; the insect must also be present in sufficient numbers. There is, therefore, a safe minimum which, when reached, precludes the possibility that an insect-borne disease will assume epidemic proportions, and eventually results in its total disappearance from a community. Robertson's theory is that the seasonal prevalence of rat fleas is too short to permit of a general spread of plague among rats and from rat to man. He points out that, in modern times, plague has not been a real menace north of 35 degrees north latitude, except on the Mediterranean and on the Pacific coast of the United States, and that while it has appeared in England, it has been more or less self-limited.

Robertson's conclusions are as follows:

"(1) Bubonic plague is essentially a disease of hot climates, and, having been introduced into tropical countries, it tends to persist indefinitely.

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- "(2) Outside of the immediate Tropics, this disease is rather definitely limited in the extent to which it will spread.
- "(3) In countries with a mean midwinter temperature of 45° F. or below, bubonic plague is occasional, accidental, and distinctly self-limited, and it seems possible for it to occur in the colder regions only for short periods under unusual conditions."

It was accordingly deemed advisable by the Public Health Service that data concerning prevalence and varieties of fleas found on rats should be obtained for various United States ports. It was felt that the information to be acquired by the study of such data might be expected to have an important bearing upon the possibility of the spread of bubonic plague in case of its introduction and upon the protective and eradicative measures to be planned.

Synopsis of Literature on Previous Studies in Various Places

Rat-flea studies of various kinds have been made in a number of places. The results of some of them are, briefly, as follows:

A survey made by Mitzmain (2) in Berkeley and Oakland, Calif., from January, 1909, to December, 1909, gave the following results:

Month	Rats trapped	Fleas collected	Percent- age of rats with fleas	Average fleas per rat	Monthly mean tempera- ture, °F.
January	38	93	68.4	2.44	51.0
February	360	1, 274	82.0	3, 53	50.8
March	409	1, 458	89.5	3, 56	51.9
April	531	1, 127	63. 8	2. 12	58.0
May	604	1, 201	73.6	1. 98	58.4
June	739	2, 534	75. 2	3. 42	61. 8
uiv	617	1, 497	77. 1	2. 42	63. 8
August	447	1, 232	82.3	2.75	61. 8
september	317	903	82.6	2.82	62. 8
Uctober	321	1, 213	86. 9	3, 77	58. 8
November	296	811	81.0	2. 77	53. 3
December	237	328	70.8	1. 38	47. 9
Total	4, 916	13, 671			

Percentage of rats with fleas entire year 77.7 Average fleas per rat entire year 2.78

In the Annual Report of the Surgeon General of the United States Public Health Service (3) for the year ended June 30, 1916, it is stated that in New Orleans, La., 1,268 rats were examined for fleas and that 4,394 fleas were obtained, being an average of 3.46 fleas per rat. Of these fleas, 3,256 were Xenopsylla cheopis, 88 were Ceratophyllus fasciatus, 1,263 were Leptopsylla musculi, 125 were Ctenocephalus canis, and 47 were Pulex irritans. The report states:

Two conditions of considerable interest have developed during the year. One is the marked rise in the number of plague rats during May, and more particularly in June, 1916, contemporaneously with a marked increase in the number of rat fleas (particularly *Xenopsylla cheopis*) per rat. It is believed that there is a distinct relationship between these two phenomena.

The figures for May and June, 1916, are as follows:

	Mus no	orvegicus		ttus and idrinus
Date	X. cheopis	C. fas- ciatus	X. cheopis	C. fas- ciatus
Week ended— May 6 May 13 May 20	2. 763 1. 033 3. 000	0. 526	1. 500 1. 500	
May 20 May 27 June 3 June 10 June 17	2. 025 2. 666 3. 609 7. 666	. 050 1. 000 . 024	4.000 8.000 1.570	
June 14 June 24 Six days ended June 30	6. 930 6. 148		7. 833 3. 000	

The Annual Report of the Surgeon General of the Public Health Service (4) for the fiscal year ended June 30, 1917, states that in New Orleans in June, 1917, the average number of fleas per rat was 3, as against 7 in June, 1916, a reduction of 4 fleas per rat. This was accompanied by a reduction in the number of plague-infected rats caught. Xenopsylla cheopis continued to be the predominating flea.

The Annual Report of the Surgeon General (5) for the fiscal year ended June 30, 1921, states that in New Orleans there were 2,144 live rats examined for fleas, with an average of 3.3 fleas per rat, and that rat plague was present.

In New Orleans during the fiscal year 1922 (6) there were 3,839 live rats examined for fleas and 17,559 fleas were taken, of which 6,566 were *Xenopsylla cheopis*, 10,269 were *Leptopsylla musculi*, and 724 were *Ctenocephalus canis*, making an average of 4.83 per rat. Figures by months are as follows:

Mean	Mean tem- pera- ture	Total rats exam- ined	Total fleas exam- ined	Fleas per rat	Mean	Mean tem- pera- ture	Total rats exam- ined	Total fleas exam- ined	Fleas per rat
July	83. 1 84. 2 83. 4 71. 2 66. 6 60. 8	227 183 None. 41 159 83	983 747 None. 147 315 260	4. 3 4. 8 None. 3. 6 1. 9 3. 1	January February March April May June	83. 5 62. 2 62. 3 72. 6 75. 7 81. 8	194 251 606 726 808 490	586 979 2, 895 3, 534 4, 301 2, 206	3.0 3.9 4.8 4.9 4.8 4.5

The Annual Report of the Surgeon General for the fiscal year ended June 30, 1921 (5), states that in Pensacola, Fla., there were 36 plague-infected rats found during that fiscal year. The average number of fleas per rat for the year was 11.3. The total number of fleas was 8,603, of which 4,640 were Xenopsylla cheopis, 1,989 were Pulex irritans, 1,101 were Ctenocephalus canis or felis, 657 were Ceratophyllus fasciatus, and 216 were Leptopsylla musculi.

The Annual Report of the Surgeon General for the fiscal year ended June 30, 1922 (6), states that in Galveston, Tex., during that year the average number of fleas per rat was 24.66, of which Xenopsylla cheopis predominated and that Ceratophyllus fasciatus was not encountered.

A rat flea survey was made in Providence, R. I. (7, 8), by Robinson in 1912 from July through to December. Three hundred and forty-two rats were examined, 57 per cent of which were found to harbor fleas. A total of 2,053 fleas were taken, of which 75 per cent were Xenopsylla cheopis, 22 per cent were Ceratophyllus fasciatus, 2.5 per cent were Leptopsylla musculi, and 0.5 per cent were Ctenocephalus canis. The average number of fleas per rat from July to September was 10.2, and from October to December the average was 3.7. For a restaurant where 40 rats were taken, the average was 36 fleas per rat. The largest number of fleas obtained from one rat was 300. The rats when caught were carried to the laboratory without inclosing the cages in canvas bags to prevent the possible escape of fleas. In a report on rat fleas in Suffolk and North Essex, England,

In a report on rat fleas in Suffolk and North Essex, England, Strickland and Merriman (9) did not encounter any Xenopsylla cheopis, but Ceratophyllus fasciatus was common (60 per cent). Thirty-eight per cent of the fleas were Ctenophthalmus agyrtes, a flea of the field mouse. Some of their findings were as follows: In all, 822 rats were examined. The average number of fleas per rat was almost exactly 4, 3,293 fleas being collected. There was a definite seasonal variation in the number of fleas per rat and in the percentage of rats infested with fleas. There was a corresponding variation in the maximum and minimum temperatures in grass thermometer readings and in the atmospheric humidity.

Newstead and Evans (10) report after a rat-flea survey of Liverpool, England, that 944 rats were caught with 2,339 fleas, making an average of 2.47 fleas per rat. Of these fleas, 1,905 were Ceratophyllus fasciatus and 73 were Xenopsylla cheopis. Of the latter, 56 were taken from the same house. The number of fleas per rat was greatest during the summer months, but the curve of frequency could not be correlated in detail with that of the average temperature. In addition to the above, 469 rats having 716 fleas were caught on ships in the port. Of these fleas, 489 were Xenopsylla cheopis, 219 were Ceratophyllus fasciatus, and 8 were Leptopsylla musculi.

It is stated (11) that in Belgaum, India, plague can assume epidemic proportions only from July to November, when rat fleas are most prevalent, averaging during July, August, and September, 18 fleas per rat, whereas in nonepidemic periods the average is but 4 or 5 fleas per rat.

The results of some of the studies bearing on the subject of life histories and longevity of fleas are briefly as follows:

With reference to the influence of saturation deficiency and of temperature on the course of epidemic plague, Brooks (12) summarizes his findings as follows:

- "1. Plague does not maintain itself in epidemic form when the temperature rises above 80° F., accompanied by a saturation deficiency of over 0.30 of an inch.
- "2. Plague epidemics are rapidly brought to an end in the presence of a high saturation deficiency, even when the mean temperature throughout and after the termination of the epidemic has been considerably below 80° F.
- "3. Plague epidemics may commence to increase in intensity when the mean temperature is well above 80° F., provided that the saturation deficiency is below 0.30 of an inch.
- "4. In some districts in India and in certain tropical islands (e. g., Java, Mauritius) where the climatic conditions are at all times of the year favorable to the incidence and spread of plague, the disease may occur indifferently at all seasons."

Bacot (13) has shown that to induce the ova of Xenopsylla cheopis to hatch a temperature of over 60° F. is apparently necessary, and that Ceratophyllus fasciatus can hatch at an average temperature of 41° F., but that Pulex irritans can not. He states that in the larval stage Xenopsylla cheopis and Pulex irritans can not survive below 40° F., but that Ceratophyllus fasciatus is not only able to endure this temperature, but apparently finds it quite suited to its needs. the pupal stage, at 40° to 43° F., the results were similar to those obtained with the larva. Pulex irritans seems to have a greater endurance in this stage than Xenopsylla cheopis. In the adult stage all species are more nearly alike. Bacot further states that at 45° to 50° F., with nearly saturated air, fleas can live for many days unfed—Pulex irritans for 125 days, Ceratophyllus fasciatus for 95 days, Xenopsylla cheopis for 35 days, Ctenocephalus canis for 58 days, and Ceratophyllus gallinae for 127 days. Kept in the ice box and fed on a natural host, Pulex irritans may live for upward of 513 days, Ceratophyllus fasciatus for 106 days, Xenopsylla cheopis for 100 days. Under natural conditions they would probably live longer. Ctenocephalus canis lived 234 days and Ceratophyllus gallinae lived 345 days. Allowing for the longest recorded time that an unfed adult lives, there is no difficulty in accounting for active adult fleas being found, under favorable situations, where there have been no hosts for considerable periods—Ceratophyllus fasciatus for 22 months, Pulex irritans for 19 months, Xenopsylla cheopis for 10 months, Ctenocephalus canis for 18 months, and Ceratophyllus gallinae for 12 months.

In a careful study made by Bacot and Martin (14) on the respective influence of temperature and moisture upon the survival of the

rat flea (Xenopsylla cheopis) away from its host and without any other source of food they have drawn the following conclusions:

- "1. The survival of fleas (Xenopsylla cheopis) apart from their host is approximately in inverse proportion to the saturation deficiency of the air, provided the temperature and air movement are constant. In other words, it is proportionate to the rate at which they lose water.
- "2. Under similar conditions but with constant saturation deficiency their length of life is reduced to between one-half and twothirds by 10° C. rise in temperature. Compared with the effect of saturation deficiency, that of temperature upon the longevity of fleas is, within the range of climatic conditions over the greater part of India, a smaller one.
- "3. A variation in saturation deficiency from 5 millimeters to 35 millimeters, such as occurs in the plains of northern India at different seasons, would accordingly shorten the average duration of life of wandering rat fleas in the proportion of 15 to 1. As a rise in mean temperature occurs simultaneously with the increase in saturation deficiency and may amount to a difference of 20° C. between January and June, this would reduce the length of life of wandering fleas to about one-third. The effect of saturation deficiency and increased temperature will be additive and would go a long way to explain some of the climatological features of the epidemic."

Strickland (15) places the time necessary for the complete development of *Ceratophyllus fasciatus* from egg to imago as being 84 days, or seven days for the egg to hatch, 60 days in the larval stage, and 17 in the pupal stage.

Investigations in India show (16) that egg laying and the stages of development into larvae, pupae, and adults all show marked seasonal variation, most active when weather is wet and temperature moderate, least active under dry and hot conditions. Atmospheric humidity seems to be more important than temperature in determining this seasonal variation. The life of the adult flea is longer in cool and moist atmosphere than under hot and dry conditions.

Nicoll states (17) that the larval and nymphal stages of *Cerato-phyllus fasciatus* can live for much longer periods than normal under certain conditions, from two to six weeks normally to over a year.

Investigations on plague in India (18) show that Xenopsylla cheopis can live for at least 41 days when its food supply is derived from a rat. It can survive for 27 days when fed on human blood. Under the most favorable conditions from 21 to 22 days were necessary for the completion of the life cycle. A high mean temperature restrains the adult from laying eggs and is also deleterious to the development of the eggs into larvae.

Thompson (19) reports that in Australia, March, April, and May were the months in which plague was most active in both rat and

man, i. e., the height of the epidemic period coincided nearly with the epizootic period.

In a report of plague investigations in India it is stated that the longest life of a flea is in August, when the humidity is over 80 per cent, whereas the shortest life is in April and first half of May, when the humidity is about 40 per cent or less. Fleas were found to live about five times longer in August than in April under the conditions observed in the experiment.

Major Cragg (20) has shown that in those parts of India which do not have epidemics of plague the predominating rat flea is not Xenopsylla cheopis, but other species of Xenopsylla, either Xenopsylla astia or Xenopsylla brasiliensis. Xenopsylla astia is also the common rat flea of Colombo, and it is well known that the city enjoys a relative immunity to plague.

Chick and Martin (21) state that Xenopsylla cheopis and Ceratophyllus fasciatus are the species of rat fleas which, when hungry, readily bite man. There is no reason to suppose that, other things being equal, Ceratophyllus fasciatus would not be as efficient an agent in the transmission of plague from rat to man as Xenopsylla cheopis has been shown to be in India.

That rat fleas will bite man has been demonstrated by various investigators, including Gauthier and Raybaud, Tidswell, Tiraboschi, Liston, the British Indian Plague Commission, Wherry, and McCoy and Mitzmain (22). The last three proved that fleas of the California ground squirrel would also bite man.

Scope of Present Study and Method of Procedure

To date, surveys to obtain fleas from live rats have been made by officers of the Public Health Service in cooperation with the local health authorities and with the approval of the State health authorities at the ports of Boston, Mass., New York, N. Y., and New Orleans, La. The work in the field in each of these surveys consisted of the trapping of live rats and the collection at the local laboratory of the fleas from these rats. The fleas have been properly preserved and later identified as to species. Care was taken to make a careful record of the location (street and number) at which each rat was caught, so that the corresponding flea data might be properly recorded for subsequent study.

In New York City the rat survey started April 18, 1923, and continued until February 28, 1925. The work of trapping the rodents was done by the rat trappers of the New York City health department. The collecting of the fleas was done by the laboratory personnel of the health department, the material thus obtained being turned over to the Public Health Service for identification.

The survey in Boston commenced December 1, 1922, and continued to November 10, 1923. The work of trapping the rodents was done by two experienced rat trappers of the Public Health Service until September 10, 1923, after which date the trapping of live rats was done by rat trappers in the employ of the Boston health department. The rats were delivered in the cages in which they were caught to the laboratory of the Boston quarantine station, where the fleas were collected from them by a Public Health Service bacteriologist. During the winter months this latter work was conducted at the Bussey Institute of Entomology, owing to transportation difficulties involved in reaching the quarantine station.

The New Orleans survey commenced November 1, 1922, and continued to June 15, 1923. This work was carried out entirely by Public Health Service personnel at the plague suppressive station then being maintained in that city.

The trapping of the rats was done by means of large wire cage traps which were placed in considerable numbers in the various localities or zones from which it was desired to obtain the rats. An effort was made to obtain what might be termed representative samples of the rat population. The rats after being trapped were delivered to the laboratory in the traps in which originally caught, care being taken to disturb the rat or rats in each cage as little as possible, so as not to affect the flea distribution and prevalence on the rats. The traps were not inclosed in canvas bags while being taken to the laboratory.

The method of obtaining fleas from a rat after delivery to the laboratory was as follows:

The rat is removed from the cage with any suitable forceps and is then killed by being caught around the neck with a hysterectomy forceps. This is done while holding the rat over a white enameled tray about 2 feet square containing about an inch of water. The rat is immediately suspended over the center of the tray and allowed to remain there for 24 hours. As the rat gradually becomes cold after death, the fleas leave it in search of another host. Since the leap or hop of a flea very rarely exceeds 8 or 10 inches, the fleas fall upon the water in the tray and float upon the surface. As all the fleas have left the dead rat at the end of the 24-hour period, they are easily collected from the surface of the water at that time with the aid of a magnifying glass. The fleas are then placed in a small bottle containing alcohol and labeled with the rodent serial number and other pertinent data. At intervals the vials thus obtained were shipped to the senior author of this report at Philadelphia, Pa., and their contents studied.

The Public Health Service is indebted to the health departments of the cities of New York and Boston for their assistance in making

the work possible, and to Dr. William Pepper, dean of the Medical School, and Dr. Allen J. Smith, professor of pathology of the University of Pennsylvania, for their kindness in furnishing laboratory space to carry on the determination of the material collected. Acknowledgment is also due to the Bussey Institute of Entomology of Harvard University for laboratory space furnished during the winter of 1922–23.

Results of Present Studies

NEW YORK

The survey in New York extended from April 18, 1923, to February 28, 1925. The number of rats caught each month varied. Four thousand seven hundred and fifty-six rats were trapped, of which 1,426, or 30 per cent, harbored fleas. The total number of fleas collected was 4,408, of which 70.7 per cent were Ceratophyllus fasciatus and 23.4 per cent were Xenopsylla cheopis. The average number of fleas per rat for the entire period was 0.93. Xenopsylla cheopis was not confined to the water front, but was taken well within the city. However, the city of New York in the area trapped is not wide and a rat can travel across it with ease from one water front to the other. The largest number of fleas obtained from one rat was 38, all of which were Ceratophyllus fasciatus.

Table 1 gives information in detail by months. It will be noted that at no time did the number of rats having fleas exceed 50.3 per cent of those trapped, and that at no time did the monthly average number of fleas per rat reach 3.0. During the year 1923 the average number was 1.6, and during the year 1924 the average number was 0.5.

Table 1.—Data relative to rat-flea survey in New York City (April 18, 1923, to February 28, 1925)

					1923				
	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Total rats caught Number having fleas Per cent having fleas Total fleas taken C. fasciatus X. cheopis L. musculi Ct. canis or felis Echid. gallinacea Average fleas per rat Per cent C. fasciatus Per cent X. cheopis	65 29 44. 6 95 95 0 0 0 1. 46 100. 0	292 147 50.3 618 611 7 0 0 0 2.11 98.8 1.1	138 68 49.3 257 241 16 0 0 0 1.96 94.0 6.0	326 132 40. 5 620 346 252 17 5 0 1. 90 55. 8 40. 6	282 118 41. 8 367 192 62 86 27 0 1. 30 52. 5 16. 8	324 156 48.3 414 156 231 2 25 0 1.28 37.7 55.8	250 105 42.0 434 114 313 0 7 0 1.74 26.2 72.1	133 65 48. 8 203 107 82 14 0 0 1. 52 52. 7 40. 4	166 58 35.0 153 106 46 0 1 0 0.92 70.0

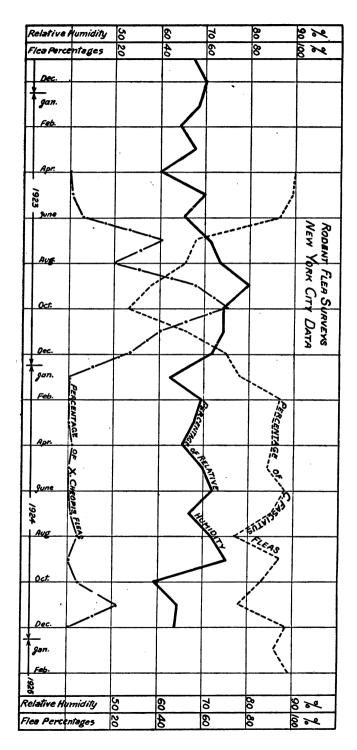
Table 1.—Data relative to rat-flea survey in New York City (April 18, 1923, to February 28, 1925)—Continued

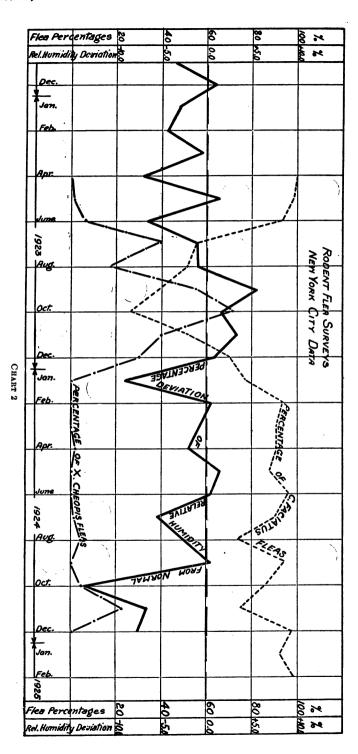
44						19	24					
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	. Oct	. No	v. Dec.
Total rats caught. Number having fleas. Per cent having fleas. Total fleas taken. C. fasciatus. X. cheopis. L. musculi Ct. canis or felis. Echid, gallinacea. Average fleas per rat. Per cent C. fasciatus. Per cent X. cheopis.	13 10 0 3 0 0 0.72 76.9	201 22 10. 9 31 29 0 2 0 0 0. 15 93. 6	256 31 12.1 36 33 0 0 0 0.14 91.7	303 29 9.6 34 31 1 2 0 0 0.11 91.2 2.8	213 76 35. 7 158 139 0 19 0 0. 74 88. 0	310 108 34.8 446 430 1 15 0 0 1.44 96.4 0.2	265 66 24. 6 209 189 4 14 1 0. 78 90. 4 1. 9	45 8 17.8 19 14 1 0 4 0 0.42 73.7 5.3	140 51 36. 4 90 85 0 4 1 0. 64 94. 4	2	2 3 17. 6 2 4 2 1 3 0. 2 5 75. 0	7 33 6 10.3 0 44 5 44 0 0 1 1 0 0 0 9 0.18
				1	•	-			. J	1925 nn.	Feb.	Total
Total rats caught Number having fleas Per cent having fleas Total fleas taken C. fasciatus X. cheopis L. musculi Ct. canis or felis Echid, gallinacea Areage fleas per rat Per cent C. fasciatus									0.99	193 13 8, 7 13 12 0 1 0 0 0 07 2, 3	214 43 20. 1 55 54 0 1 0 0 0.26 98. 8 0.0	4, 756 1, 426 30, 0 4, 408 3, 117 1, 032 181 77 2 0, 93 70, 7 23, 4

Summary

Year	Total rats	Total fleas	Average fleas per rat	X. cheo- pis	Per cent X. cheo- pis
1923	1, 976	3, 161	1. 60	1, 009	31. 6
1924	2, 373	1, 179	0. 50	23	1. 9

Xenopsylla cheopis furnished more than 50 per cent of the fleas during September and October, 1923, after which time their number rapidly decreased to practically a negligible quantity and remained low during the entire year 1924 except for the month of November when there was a rise to 23.3 per cent of the monthly catch. On the other hand, during 1924, Ceratophyllus fasciatus increased in numbers in May, June, and July, just as it did in 1923, but the numbers of this species were comparatively few during the remainder of the year. Only one species of the genus Xenopsylla was encountered during the survey, namely, Xenopsylla cheopis. In Charts 1 and 2 an attempt is made to show a correlation between atmospheric humidity and the prevalence of Xenopsylla cheopis. It is to be noted that from July to November, 1923, the months during which Xenopsylla cheopis was most prevalent, the relative humidity remained between 70 and 80, although the average temperature during October had dropped to





56° F. During the entire year 1924 the relative humidity was comparatively low. The highest average was 75 in September, but during most of the year it deviated below the normal. Except for a slight rise in the number of *Xenopsylla cheopis* collected in November, this species can practically be disregarded during 1924.

BOSTON

In Boston (Table 2) the study extended from December 1, 1922, to November 13, 1924. One thousand five hundred and twenty-four rats were caught, of which 648, or 42.5 per cent harbored fleas. The average number of fleas per rat was well under 1.0 until June, when

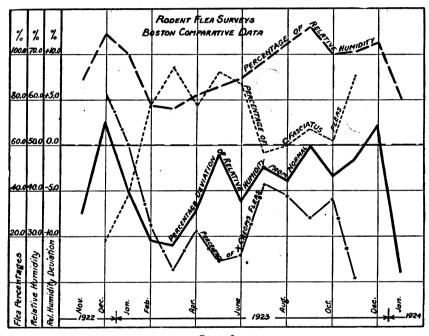


CHART 3

it reached 1.37 and remained above 1.0 up to and including November. At no time did the average reach 3.0 fleas per rat. The average number of fleas per rat for the entire period was 1.25. The total number of fleas obtained was 1,901. The per cent of Xenopsylla cheopis for the entire period was 33.2. The curve representing Xenopsylla cheopis was not so consistent as that for New York, although it follows more or less closely the curve representing relative humidity (Chart 3). The months of December and January show a high percentage of Xenopsylla cheopis. They then diminished in numbers until the season that one would expect to find them most prevalent, namely, June to October, although they never reached 50 per cent of the total catch. In November they had dropped to only 1.8 per cent of the catch, Ceratophyllus fasciatus

remaining comparatively high. The only member of the genus Xenopsylla encountered was cheopis. The greatest number of fleas obtained from one rat was 67, 10 of which were Xenopsylla cheopis and the remainder Ceratophyllus fasciatus.

Table 2.—Data relative to the rat-flea survey in Boston, Mass. (December 1, 1922, to November 10, 1923)

	1922						1923						
	Dec.	Jan.	Feb.	Mar.	Apr.	Мау	June	July	Aug.	Sept.	Oct.	Nov.	Tota
Total rats caught Number having fleas. Per cent having fleas. Total fleas taken C. fasciatus X. cheopis L. musculi Ct. canis or felis	41 5 12. 2 34 6 28 0	172 26 15. 1 118 44 74 0	124 7 5. 6 8 6 2 0	128 25 19. 5 44 42 2 0	56 20 35. 6 32 25 7 0	94 18 19. 2 58 53 5 0	70 25 35. 8 96 83 11 0	118 81 68, 6 282 162 119 1	215 89 41. 4 230 138 88 2 2	208 132 63. 4 288 197 78 1	208 149 71. 7 595 368 216 7 4	90 71 78. 8 111 101 2 8 0	1, 524 648 42, 5 1, 901 1, 225 632 19
Ctenopthalmus pseudagyrtes Average fleas per rat Per cent C. fasciatus. Per cent X. cheopis	0 0. 83 17. 6 82. 4	0 0. 69 37. 3 62. 7	0 0. 6 75. 0 25. 0	0 0.34 95.5 4.5	0 0. 57 78. 1 21. 9	0 0. 62 91. 4 8. 6	2 1.37 86.4 11.4	0 2.39 57.4 42.2	0 1. 07 60. 0 38. 2	0 1.38 68.4 27.0	0 2. 86 61. 8 36. 3	0 1. 23 91. 0 1. 8	1. 25 64. 4 33. 2

NEW ORLEANS

The survey in New Orleans was carried on from November 1, 1922, to June 15, 1923. During the first three months the rat catch was so small that the figures for that period are not dependable and might be disregarded. However, if they are included, 1,661 live rats were caught, from which 3,928 fleas were obtained, being an average of 2.36 fleas per rat.

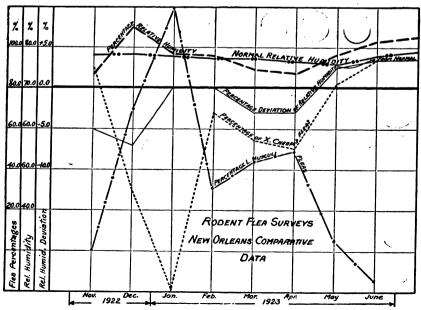


CHART 4

Two thousand eight hundred twenty-nine fleas, or 72.0 per cent, were Xenopsylla cheopis; 1,049 fleas or 26.6 per cent were Leptopsylla musculi, while there were only 18 Ceratophyllus fasciatus, or 0.5 per cent. These figures agree very well with those obtained during previous surveys in New Orleans, already mentioned in this report. Detailed information by months concerning the New Orleans survey is to be found in Table 3. From Chart 4 it may be noted that the variations in the percentages of Xenopsylla correspond fairly closely to variations in atmospheric humidity.

Table 3.—Data relative to the rat flea survey in New Orleans, La. (November 1, 1922, to June 15, 1923)

	19:	22	1923							
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Total	
Total rats caught	33	4	1	289	454	309	367	204	1, 661	
Number having fleas Per cent having fleas	33 100	100	100	289 100	417 91. 8	191 61. 8	320 87. 2	189 92. 6	1, 444 86. 9	
Total fleas taken	154	29	12	941	1,023	174	909	686	3, 928	
C. fasciatus	0	0	0	4	12	0	2	0.	18	
X. cheopis	138	9	0	642	556	89	750	645	2, 829	
L. musculi	16	20	12	288	448	84	142	39	1,049	
Ct. canis or felis	0	0	0	2	7	0	9	2	20	
Echid. gallinacea	0	0	0	5	0 0	0.50	6	0	12	
Average fleas per rat	4. 67	7. 25	12.0	3. 26	2. 25	0.56	2, 48	3. 36	2. 36	
Per cent C. fasciatus	0.0	0.0	0.0	0.4	1.2	0.0	0. 2	0.0	0. 5	
Per cent X. cheopis	89.6	31.0	0.0	68. 2	54. 4	51.1	82.6	94.0	72. (
Per cent L. musculi	10.4	69.0	100	30.6	43.8	48.3	15.6	5.7	26. 6	

DATA BY ZONES

In tables 4, 5, and 6 the flea survey data obtained from New York City, Boston, and New Orleans are tabulated by zones, although for New Orleans certain of the data are lacking. The zones were determined by dividing the cities into sections, which seemed to be logical arbitrary divisions. Examination of these tables shows that none of the rats from which the fleas were obtained was trapped on vessels except in New Orleans. In New York City, 26.8 per cent of the rats trapped on docks or wharves had fleas; 30.9 per cent of those trapped in warehouses adjacent to docks or wharves had fleas, and 49.5 per cent trapped elsewhere in the city had fleas. Similarly in Boston, 30.8 per cent of those trapped on wharves or docks carried fleas; 30.9 per cent of those trapped in warehouses adjacent to the waterfront had fleas, 57.3 per cent of those trapped elsewhere in the city carried fleas, and 25.6 per cent of the rats trapped in the suburbs had fleas.

TABLE 4.—New York City flea survey data by zones

		m				
	1	2A	2B	3	4	Total
Total rats		3, 660	488	608		4,756
Rats having fleas		974	151	301		1, 426
Per cent having fleas		26.8	30.9	49 . 5		30.0
Total fleas		2, 673	629	1, 106		4, 408
C. fasciatus		1,874	431	812		3, 117
X. cheopis		578	179	2 75		1, 032
Other fleas		222	18	20		260
Average fleas per rat		0.73	1. 29	1.82		0. 93
Per cent C. fasciatus		70. 2	68.6	73. 5		70. 7
Per cent X. cheopis		21.7	28.5	24. 9	li	23. 4

¹ Zones:

Zone 1: Vessels, foreign and coastwise, entering the port.
Zone 2A: The wharves and docks of the waterfront.
Zone 2B: The warehouses along the water front.
Zone 3: The remainder of the city, except the suburbs or country portion.
Zone 4: The suburbs or country portion.

Table 5.—Boston flea survey data by zones

•	1	2A	2B	. 3	4	Total
Total rats Rats having fleas Per cent having fleas C. fasciatus X. cheopis Other fleas Average fleas per rat Per cent X. cheopis		536 165 30. 8 478 317 144 17 0. 89 66. 3 30. 1	178 55 30. 9 124 93 30 1 0. 70 75. 0 24. 2	697 399 57. 3 1, 233 752 457 24 1. 77 60. 9 37. 2	113 29 25. 6 66 63 1 0. 58 95. 4 1. 5	1, 524 648 42. 5 1, 901 1, 225 632 44 1. 25 64. 4 33. 2

¹ Zones defined in Table 4.

Table 6.—New Orleans flea survey data by zones

			Zone 1			
	1	2A	2B	3	4	Total
Total rats. Rats having fleas Per cent having fleas Total fleas C. fasciatus X. cheopis L. musculi Other fleas Average fleas per rat Per cent C. fasciatus	12 1 8.3 1	1 9 1 1 7	80 213 5 46 161 1	1, 091 3, 336 10 2, 531 767 28	2777 369 2 251 113 3	1, 661 1, 444 86, 9 3, 928 18 2, 829 1, 049 32 2, 36 0, 5
Per cent X. cheopis	100. 0	11. 1 77. 8	21. 6 75. 7	75. 8 23. 0	68. 0 30. 6	72. 0 26. 6

¹ Zones defined in Table 4.

It is to be noted that for New Orleans, in zones 2A and 2B, consisting of the docks and warehouses adjacent, at least 75 per cent of the fleas obtained from the rats were Leptopsylla musculi, whereas for the remainder of the city and suburbs more than 68 per cent of the

fleas obtained were Xenopsylla cheopis. This variation in prevalence by zones was not found in New York and Boston, where Ceratophyllus fasciatus (replaced by Leptopsylla musculi in New Orleans) was the species most commonly found.

OTHER ECTOPARASITES ENCOUNTERED

No Pulex irritans were taken either in the New York or Boston surveys. It is a species of flea rarely found in the northeastern part of the United States, but common on the Pacific coast, and has also been taken from rats in New Orleans and Pensacola.

In addition to the fleas collected and reported in Tables 1 and 2, the following parasites were taken:

Polyplax spinulosa Burmeister (the common rat louse).

Philandesia foxi Ewing (one specimen from Mus norvegicus, New York City).

Laclaps echidninus Berlese (the common rat mite).

Laelaps hawaiiensis Ewing (New York City and New Orleans from rattus).

Bdella cardinalis Banks (New York City. Accidentally on M. norvegicus).

For the identifications of the above ectoparasites acknowledgment is due Dr. H. E. Ewing, of the Bureau of Entomology, United States Department of Agriculture.

Conclusion

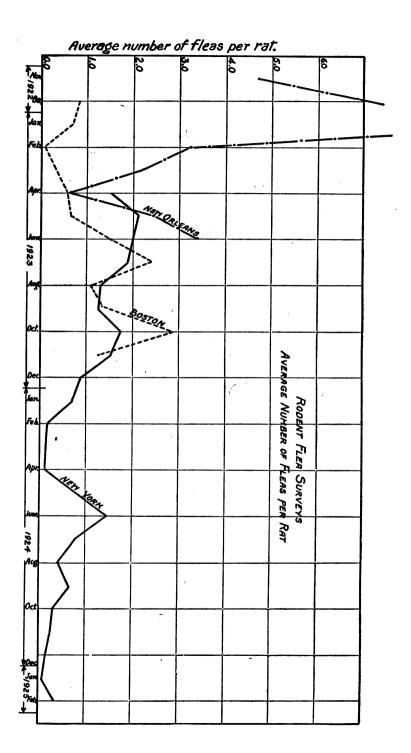
The authors do not feel that it is advisable to draw any definite conclusions from the surveys. It is quite significant, however, that in New Orleans, where plague has actually existed, Xenopsylla cheopis is the predominant rat flea present during every month of the year, and that Ceratophyllus fasciatus is practically absent while, in the northern cities under study, where plague has never existed, Ceratophyllus fasciatus is the predominant rat flea, Xenopsylla cheopis appearing in greater numbers only during a few months of the year. It is also significant that in New Orleans the average number of fleas per rat is consistently high as compared with the average number in New York and Boston. It is also felt that temperature and humidity are important factors in the average number of fleas per rat as well as in the numbers of Xenopsylla cheopis.

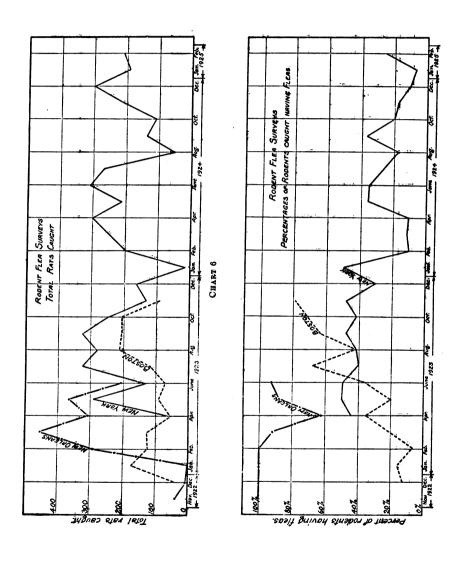
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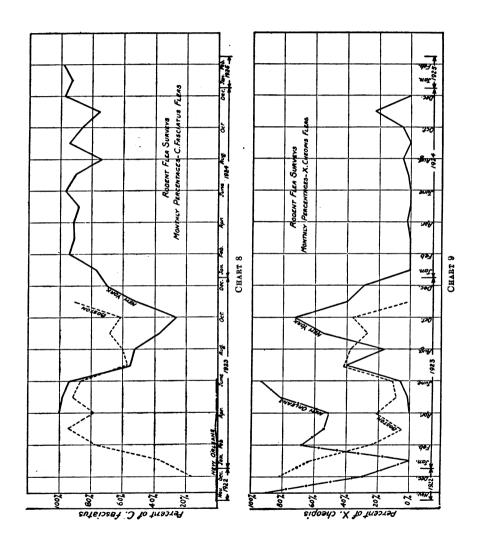
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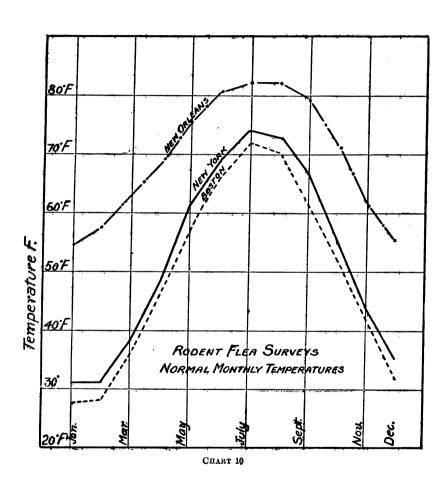
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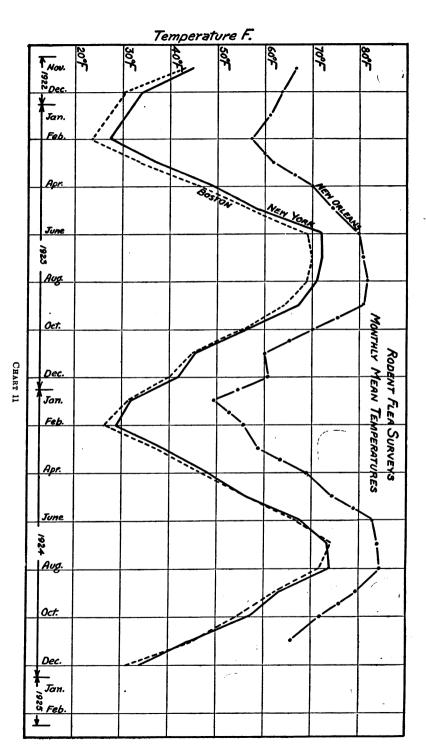
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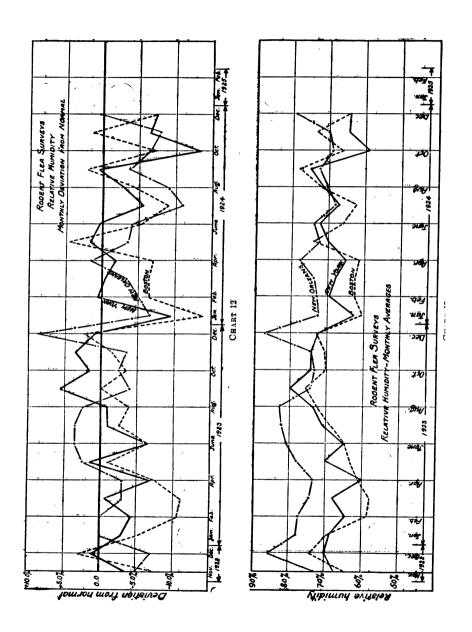


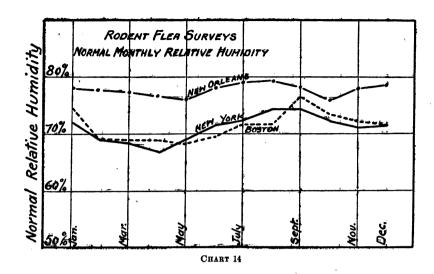


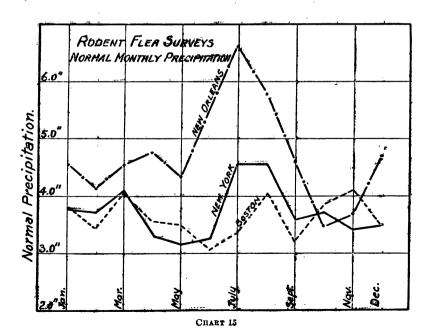


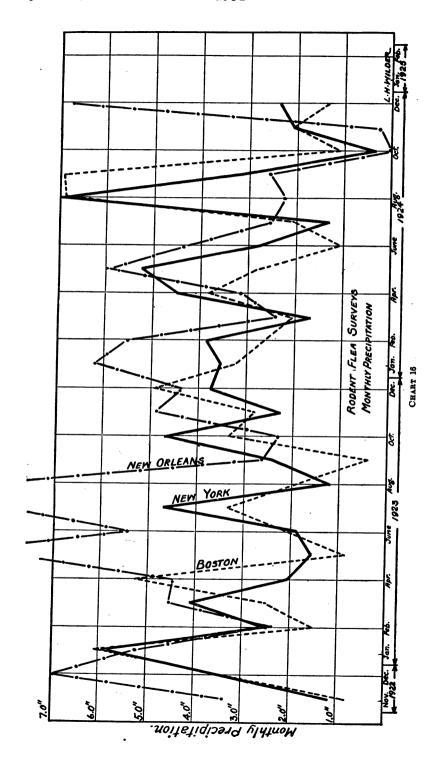












CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT, ISSUED BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT, JULY 15, 19251

Seasonal declines in the incidence of the more serious epidemic diseases, particularly plague, cholera, and smallpox, were reported in May and June by the countries where these diseases have been widespread. Similarly, the incidence of scarlet fever and diphtheria has shown the normal spring decline; and, as no increases in the occurrence of the warm-weather diseases were noted by the Epidemiological Report of July 15, the health situation in June, so far as epidemics are concerned, was decidedly favorable in most parts of the world.

Plague.—In India, where the minimum plague incidence usually occurs in July, a rapid decline was reported during May.

Week ending—	Cases	Deaths	Week ending—	Cases	Deaths
May 2	3, 858 1, 952	3, 359 1, 672	May 1623	1, 162 840	1, 012 667

Weekly plague incidence in British India during May

In Java, although the plague incidence has been declining since February, the number of cases reported still exceeds the figures for previous years; 720 deaths were reported during the four weeks ended May 20, as against 947 during the previous four weeks and 382 in the corresponding period for 1924.

Plague incidence in Egypt has been lower than in previous years, and only a slight increase was reported in May and June. The total incidence in the first six months of 1925 was 78, compared with 320 in the corresponding period of 1924.

An increase in plague was reported in Kenya, where 100 cases were notified in May, compared with 56 in April and 32 in March. A decline in May and June in other infected areas of Africa, particularly in Madagascar, is noted by the Report.

Cholera.—The cholera incidence in India is much lower than at the corresponding season of 1924, due to "the relative quiescence of the important centers of the disease in Bengal and the Ganges Valley." The epidemic in Kashmir, referred to last month, seemed to reach its maximum in the week ending May 9, when 2,844 cases and 1,548 deaths were reported. A general decline in the cholera cases occurred in the second and third weeks of May.

¹ From the Statistical Office, United States Public Health Service.

Cholera cases and deaths in India, April 19-May 25

Week ending—	Cases	Deaths	Week ending—	Cases	Deaths
Apr. 25	5, 187 5, 521 6, 079	3, 197 3, 163 3, 585	May 1623	4, 698 3, 815	3, 104 2, 411

Other localities which reported cholera in June were Ceylon, Indo-China, Siam, and Manila.

Yellow fever.—Cases of yellow fever reported included 6 in Nigeria in May.

Typhus and relapsing fever.—The incidence of typhus fever in Eastern Europe was low during the past winter, and the recent reports show it to have diminished rapidly in the spring.

Typhus cases and deaths reported in various countries since the beginning of 1925

Country	Period	Cases	Deaths	Case mortality
Bulgaria Czechoslovakia Leningrad Lithuania Poland Kingdom of the Serbs, Croats, and Slovenes Algeria Union of South Africa	4 months	54 55 91 185 2,411 310 463 261	4 2 2 9 173 45 34 24	7. 4 3. 6 2. 2 4. 9 7. 2 14. 5 7. 3 9. 2

The following additional comment on the epidemic of relapsing fever in Central Africa, referred to last month, is given in the Report:

Reports from the Chad Colony and Nigeria indicate that the epidemic of relapsing fever (Spirochete obermeiri) which had raged throughout the grasslands south of the Sahara, moving from west to east, diminished rapidly during May and June. By the end of June, only Borku and Innedi, which were not reached by the epidemic until April, remained infected. Doctor Gouzien estimates that this epidemic had caused between 50,000 and 60,000 deaths in a region which is for the most part only sparsely inhabited.

Smallpox.—The smallpox incidence continued to diminish in June in England and in the United States. "No important outbreaks have occurred on the Continent of Europe."

"The smallpox epidemic in India reached its height during the first half of April," states the Report, "and lower figures were reported from all provinces by the end of May. The highest number of cases during the week ending May 23 was reported from Bihar and Orissa (1,173)."

¹Dr. P. Gouzien: Faits épidémiologiques, en Afrique Occidentale Française. Annales de Médicine et Pharmacie Coloniales, 1925, No. 1, pp. 66-81.

Enteric fever and dysentery.—The following comment with regard to enteric fever and dysentery is given in the Report:

Reports so far received show no increase in the incidence of these two diseases, with the exception of an outbreak in Sweden, where 405 cases of enteric fever occurred during the second half of June as against 46 during the preceding fortnight; 289 of these occurred in Gothenburg. Only half as many cases of this disease were reported in England in May and June as during the corresponding months of 1924. The incidence of both diseases in Central Europe was lower than during the same period of the three preceding years. A marked improvement over previous years is seen in Japan, where 1,873 cases of enteric fever and 371 of dysentery were reported for the four weeks ending May 30, as against 3,622 and 577, respectively, during May, 1924.

Reference has been made in the Public Health Reports to an increase since June in typhoid fever in the United States, particularly in the South Atlantic Division and the North and South Central Divisions. (See Public Health Reports, July 17, p. 1524, and August 14, p. 1701.)

Épidemic diseases of the central nervous system.—No fresh outbreaks of epidemic encephalitis, acute poliomyelitis, or cerebrospinal meningitis were noted in the reports received by the Health Section in the month prior to the publication of the July Report. A decrease was noted in the number of cases of encephalitis reported in England in June.

Scarlet fever and diphtheria.—A comparison of the case fatality of scarlet fever and diphtheria in a number of countries is given by the Report. Attention is called to the fact that the completeness of reporting varies considerably in different countries and that the case fatality given in the table below can not be taken as an accurate indication of the virulence of the two diseases in the countries concerned. In the same country the completeness of the reports is likely to be equal for the two diseases and, therefore, a comparison of the two will give a fairly accurate indication of the relative severity of the two diseases.

The following comparison of the relative severity of the two diseases is given by the Report:

It is significant that the case mortality of scarlet fever is higher than that of diphtheria in castern Europe; expressed in units of the case mortality of diphtheria, it is 2.90 in Poland, 1.37 in Bulgaria, 1.36 in the Kingdom of the Serbs, Croats, and Slovenes, 1.34 in Turkey, and 1.03 in the city of Leningrad. An intermediate group is formed by Greece (0.75), Lithuania (0.67), Hungary (0.51), Rumania (0.47), and Czechoslovakia (0.43). The reported case mortality of diphtheria is from three to six times higher than that of scarlet fever in Scotland (0.33), London (0.24), Austria (0.19), the Netherlands (0.16), Canada (0.18), and New Zealand (0.22).

Case mortality rates of diphtheria and scarlet fever in various countries since the beginning of 1925

_] 1	Diphtheria Scarlet fever			Scarlet fever			
Country or town	Period	Cases	Deaths	(a) Per cent	Cases	Deaths	(b) Per cent	0. 24 .78 .19 1.31 .33 .53	
England (London)	27 weeks		257	4.2	5, 603	57	1.0	0.24	
Austria	24 weeks		60	3.1	3, 141	19	.6		
Bulgaria	4 months	446	62	13. 9	945	180	19. Ŏ		
Canada	5 months	3, 122	461	14.8	7.889	210	2.7		
Scotland (16 cities)	27 weeks	2,488	199	8.0	5, 171	136	2.6		
France (Paris)	6 months	1, 378	112	8.1	1, 454	62	4.3	53	
Greece	5½ months		14	16.3	152	19	12. 3	.75	
Netherlands			119	6.4	3, 057	32	1.0	.16	
Hungary	5½ months	1, 572	150	9.5	3, 617	174	4.8	.51	
Lithuania	5 months	69	4	5.8	584	23	3. 9	. 67	
New Zealand			14	2.3	433	2	.5	. 22	
Norway (cities)	5 months		7	3.5	259	ō			
Poland		1, 878	200	10.6	7, 596	2, 335	30.7	2.90	
Rumania	4 months	490	94	19. 2	3, 969	362	9. 1	. 47	
Kingdom of the Serbs, Croats, and Slovenes.	6 months	737	116	15. 7	4, 163	891	21. 4	1. 36	
Russia (Leningrad)	17 weeks		28	10.1	2, 511	262	10.4	1.03	
Czechoslovakia	5 months	1,680	127	7.6	4, 148	138	3.3	. 43	
Saar Territory	25 weeks	141	12	8.5	87	1	1.1	. 13	
Turkey		133	23	17. 3	280	65	23. 2	1.34	
Uruguay	3 months	64	5	7.8	81	Ö		1.01	

¹ Case mortality of scarlet fever expressed in unit of the case mortality of diphtheria.

Measles.—The incidence of measles continued high in May in France, Italy, Belgium, and Hungary. A sharp increase in the disease occurred in Egypt in May and June, and more deaths occurred than at the same season of 1924, but fewer than in the epidemic of 1923. A large number of deaths from measles was reported by Mexico—956 deaths in April.

Tuberculosis.—An improvement in the tuberculosis mortality during the first half of 1925 as compared with last year is noted in many cities. The decline is most marked in Germany, where there were 10,181 deaths from tuberculosis (all forms) in 46 cities during the first 24 weeks of 1925, compared with 12,063 and 15,527, respectively, during the corresponding period of 1924 and 1923, and in Budapest, where the number of deaths fell from 2,043 in the first five months of 1924 to 1,383 in the corresponding period of the present year.

Leprosy.—The following data on leprosy are given in the Report:

New cases of leprosy reported in various countries, by quarters, during 1924 and 1925

Country		1924				
Country	I	II	III	IV	Total	T.
Algeria ' Western Australia Dominican Republic	1 0	0	1 1	0	2	1 0
Esthonia. United States France Greece Latvia Iraq Mexico (deaths) Panama Canal Zone Philippine Islancs—Manila Serb, Croat, Slovene Kingdom	6 2 0 3 0 7	3 4 2 2 0 1 0 17 8 9	3 17 0 2 4 1 18 0 6	6 9 2 0 8 0 36 7	20 36 6 2 16 1 78 21 23	0 8 0 0 10 23 2
Switzerland Uruguay Zanzibar	0 3	0 1	0 2	0 1	1 <u>1</u> 7	1 2 1

¹ Imported from Bolivia.

DIPHTHERIA IMMUNIZATION OF SCHOOL CHILDREN IN WINDSOR, ONTARIO

The board of education and the board of health of Windsor, Ontario, are cooperating in waging a campaign against diphtheria and plan to begin toxin-antitoxin inoculations of all susceptible school children as soon as the schools open in September. There are about 15,000 school children in Windsor and vicinity.

In order to secure the full cooperation of the school boards and the consent of the parents, the board of health addressed a letter to all school boards of the border cities reviewing the history of diphtheria in the locality from 1895 down to the present time, showing the reduction in the case fatality rate by the use of diphtheria antitoxin from between 30 and 60 to less than 6 per cent, but pointing out that while the case fatality rate had been reduced there were still a large number of cases—1,185 cases, with 54 deaths in the border cities from 1920 to 1924, inclusive. The letter also gives a brief summary of the results achieved by the use of the toxin-antitoxin mixture.

In case of inability to pay for the inoculations, they will be administered free of charge. They are to be entirely voluntary, and no child will be inoculated without the consent of the parents or guardian.

ANTIVACCINATIONIST DIES OF SMALLPOX

Health Briefs for July, issued monthly by the Tennessee Department of Public Health, takes the following item from a recent issue of the Health News, of the New York State Department of Health:

Health News of February 2 carried an item mentioning a fatal case of small-pox in a school-teacher. An interesting feature of this case has just been brought to our attention by the health officer of the municipality in which the teacher lived.

Following the teacher's death, mothers of two pupils in her class independently reported to the health officer that just before Christmas they had told the teacher that their children were to be vaccinated during the holidays. The teacher strongly advised against it on the ground that it "was a medieval custom, was harmful to the welfare of the child, and that deaths were occasionally caused by such vaccinations."

On January 12 this teacher died of smallpox.

Although she took her own advice, fortunately the mothers of her pupils did not do so.

HEALTH OFFICER TRACES TYPHOID CARRIER

The following articles are taken from the Health News (N. Y.) of August 31, 1925:

During the period July 5 to July 10, five cases of typhoid fever developed in the towns of Greenwich and Fort Edward, Washington County. Dr. Leonard

A. Hulsebosch, the local health officer, who made a very commendable epidemiological investigation of this outbreak, found that a laborer on the dairy farm from which all the patients had obtained milk, had had a fever lasting for six weeks 16 years previously. He also found that this man was employed on another farm last year and that his employer developed typhoid fever a few weeks afterwards. A specimen of feces was obtained from this employee and forwarded to the department laboratory. Typhoid bacilli were isolated from the specimen, thus definitely showing him to be a carrier.

DIPTHERIA IMMUNIZATION IN A SMALL COMMUNITY

Twenty-five children in the town of Conesville, Schoharie County, have been immunized against diphtheria with toxin-antitoxin by Dr. Charles A. Shultes, health officer. The parents of preschool children were urged to secure from their family doctors this protective treatment for their children at a recent "Children's Health Consultation," held in the town under the auspices of the division of maternity, infancy, and child hygiene. This information is of special interest in view of the fact that the town has a population of less than 1,000 persons, scattered over a considerable area.

ABSTRACTS OF CURRENT PUBLIC HEALTH COURT DECISIONS

Evidence held not to warrant jury in finding that contamination of well was caused by defective sever.—(Iowa Supreme Court.) The plaintiff alleged that, due to negligent, defective construction of a sewer in front of his premises, a well on his premises became polluted with typhoid-fever germs contained in sewage which escaped through the joints of the sewer, and that members of his family were taken ill with typhoid fever caused by drinking the contaminated well water. A jury awarded damages to the plaintiff. The supreme court, however, reversed the judgment, holding that the evidence did not warrant a finding by the jury that plaintiff's well was contaminated by sewage which escaped from the alleged defective tile There was evidence showing that in the operation of the sewer the tendency would be to infiltration rather than outfiltration. It was also shown that several outside toilets and a hogpen were in closer proximity to the well than was the sewer in question. closing the opinion the court said:

Sufficient to state that the circumstantial evidence, upon which plaintiff relies, fails to carry the burden placed upon him. The jury was not justified in inferring from a mere possibility the existence of a cause upon which plaintiff predicates his action. (Hemminger v. City of Des Moines, 203 N. W. 822.)

Action against city for damages defeated by failure to present claim within time specified by charter.—(Washington Supreme Court.) Plaintiffs, husband and wife, brought an action based on negligence against the city of Everett for damages on account of the contraction

by the wife of typhoid fever alleged to have been caused by the use of polluted water furnished by the municipality. The disease was contracted on or about July 28, 1923, and claim for damages was presented to the city on October 16, 1923. Section 145 of the city charter provided as follows:

All persons having claims for damages for personal injuries or for injuries to personal property sustained by reason of alleged negligence or any act of the city or any officer, agent, servant, or employee of the city must present such claim to the council within 30 days after such injury or damage.

The court held that the charter provision was mandatory and, claim not having been presented within the specified time, affirmed a judgment dismissing the action. (Sheer et al. v. City of Everett, 235 Pac. 789.)

Pneumonia resulting from accidental injury to leg held compensable under workmen's compensation law.—(Oregon Supreme Court.) An employee while engaged in his work received an accidental injury to his leg. Following the injury, pneumonia developed, and in a proceeding to recover compensation under the workmen's compensation law the jury found that the pneumonia was the proximate result of the leg injury. The supreme court held that the finding of the jury was supported by some evidence and affirmed a judgment in favor of the claimant. (Robertson v. State Industrial Accident Commission, 235 Pac. 684.)

Ordinance requiring sewer connections when deemed necessary by city board of health construed and upheld.—(South Carolina Supreme Court.) A property owner was ordered by the board of health of the city of Columbia, acting under authority of a city ordinance, to connect certain premises owned by her with the city sewer. The property in question faced on an alley in which there was no sewer main, but was a part of property owned by the same person, which extended entirely through a square and which faced on four streets, in all of which streets there were sewer mains. Said owner failed to comply with the order and her conviction for such failure was affirmed by the supreme court. The following points were decided in the case:

- (1) The ordinance, requiring the connection "of premises on the line of the city sanitary sewers," was not restricted in its application solely to houses which faced on or immediately abutted the street upon which the sewer main was.
- (2) The ordinance was not unreasonable because it required property owners to connect with sewers located at some distance, thus entailing considerable expense.
- (3) It was not an abuse of the exercise of the city's discretion to place its sewer mains in the streets surrounding the particular property involved in this case and to fail to put a sewer main in the alley on which the particular property faced.

(4) The contention that the ordinance violated the State constitution, because of there being no provision in the ordinance for a hearing, by the board of health, of the protest of a property owner who had been notified to connect with the sewer, was held to be without merit. (City of Columbia v. Shaw, 127 S. E. 722.)

DEATHS DURING WEEK ENDED AUGUST 22, 1925

Summary of information received by telegraph from industrial insurance companies for week ended August 22, 1925, and corresponding week of 1924. (From the Weekly Health Index, August 25, 1925, issued by the Bureau of the Census, Department of Commerce)

Department of Commerce)	Week ended August 22, 1925	Corresponding week, 1924
Policies in force	60, 810, 078	56, 783, 309
Number of death claims	8, 839	8, 664
Death claims per 1,000 policies in force, annual rate_	7. 6	8. 0

Deaths from all causes in certain large cities of the United States during the week ended August 22, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, August 25, 1925, issued by the Bureau of the Census, Department of Commerce)

		ded Aug. 19 2 5	Annual death rate per			Infant mortality	
City	Total deaths	Death rate ¹	1,000 corre- sponding week, 1924	Week ended Aug. 22, 1925	Corresponding week, 1924	rate week ended Aug. 22, 1925 ¹	
Total (66 cities)	5, 776	10. 8	10. 3	801	771	³ 67	
Akron Albany	32 34	14. 8	15. 0	7 4	2 2	78 87	
Atlanta Baltimore 4 Birmingham	. 67 192 56	12. 6 14. 2	12. 4 12. 7	13 28 6	6 36 8	84	
Boston Bridgeport Buffalo	172 25 120	11.5	11.1	24 2 18	24 4 20	64 32 73	
Cambridge Camden Chicago 4	23 35 565	10. 7 14. 2 9. 8	11. 2 11. 6 8. 8	2 12 69	4 4 74	34 191 61	
Cincinnati Cleveland Columbus	122 156 73	15. 5 8. 8 13. 6	13. 9 7. 2 9. 5	16 22 14	19 19 6	95 55 128	
Dallas Dayton	55 31 81	14.8 9.3	12. 5 12. 9	6 5	6 8	79	
Denver Des Moines Detroit	17 249	15. 0 5. 9	14. 0 11. 9	16 0 58	10 1 59	0 100	
Duluth	18 33 31	8, 5 16. 4	5. 3 15. 5	0 7 3	2 10 3	 58	
Fall River 4 Flint Fort Worth	19 20 28	8. 2 8. 0 9. 6	12. 1 7. 1 7. 0	4 5 4	3 2 1	58 79	
Grand Rapids Houston Indianapolis	31 64 73	10. 6 20. 2 10. 6	7. 4 10. 4 12. 3	7 6 6	0 5 12	110	
Jersey City Kansas City, Kans	47 25	7. 8 10. 5	10. 7 11. 1	4	6	43 28 21	
Kansas City, Mo.	86 !	12.2	13.3	8	17	-	

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 1924. Cities left blank are not in the registration area for births.

Data for 61 cities.
 Deaths for week ended Friday, Aug. 21, 1925.

Deaths from all causes in certain large cities of the United States during the week ended August 22, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, August 25, 1925, issued by the Bureau of the Census, Department of Commerce)—Continued

		ded Aug. 1925	Annual death rate per		s under 'ear	Infant mortality	
City	Total deaths	Death rate	1,000 corre- sponding week, 1924	Week ended Aug. 22, 1925	Corresponding week, 1924	rate week ended Aug. 22, 1925	
Los Angeles	200			30	18	83	
Louisville	92	18. 5	12.1	15	11	131	
Lowell	21	9.4	11.3	5	6	87	
Lynn	17	8.5	7.0	2	0	53	
Memphis	69	20.6	23.6	12	10		
Milwaukee	63 84	6. 5 10. 3	8.2	. 3	13 4	14	
Minneapolis			7.7	12		64	
Nashville 4	41	15. 7	20.7	7	11		
New Bedford	20 23	7. 7 6. 7	6.7 11.3	0 3	3 7	.0	
New Haven	163			24	17	39	
New Orleans	1, 071	20. 5 9. 1	15. 9 9. 3	141	151		
Bronx Borough	1,071	7.1	7.4	13	7	57 45	
Brooklyn Borough	367	8.6	8.2	49	64	50	
Manhattan Borough	459	10.6	10.8	62	62	65	
Queens Borough	90	8. 2	8.8	10	12	46	
Richmond Borough	32	12.5	17.6	7	6	125	
Newark, N. J.	78	9.0	9.5	14	10	64	
Norfolk	31	0.0		9	ž	166	
Dakland	48	9.9	10.8	3	4	35	
Oklahoma City	17	0.0	1000	4	a a	•	
Omaha	45	11.1	9.8	$\hat{7}$	3 7	72	
Paterson	26	9.6	8. 2	i	Ò	i 7	
Philadelphia	417	11. Ŏ	9. 1	63	51	80	
Pittsburgh	162	13. 4	10.8	30	16	100	
Portland, Oreg	62	11.4	11.3	3	4	30	
Providence	57	12.1	12.4	5	12	40	
Richmond	39	10. 9	10.8	6	6	72	
Rochester	63	9. 9	8.3	14	3	112	
St. Louis	212	13.5	12.8	35	22		
St. Paul	44	9.3	12.2	3	7	25	
Salt Lake City 4	29	11.5	12.2	1	.6	16	
an Antonio	59	15.5	16.3 15.7	16	15		
an Diego	32	15.7	12.0	3 9	0 6	70	
San Francisco	119 20	11. 1 10. 2	8.3	1	3 1	52 28	
Schenectady	58	10.2	0.0	1	2 3 2 0	29	
Seattle	15	7.7	3, 6	3 2	3	54	
Somerville	19	9.1	8.5	2	51	45	
pokane pringfield, Mass	28	9.6	8.8	2	ğ	. 30	
yracuse	28	7.6	10.8	9	7	113	
Pacoma	19	9.5	15. 2	ĭ	2	23	
Poledo	68	12.3	8.7	12	4	108	
Trenton	33	13.0	15.3	7	3	115	
Washington, D. C.	106	ii.i	9. 4	17	13	96	
Vaterbury	12			1	.2	22	
Wilmington, Del	22	9.4	8.7	2	4	45	
			امتما		1		
	38	10.0	12.3	5	5 1	58	
Vorcester	38 18	10. 0 8. 4	10.5	2 8	5 5	58 44 99	

Deaths for week ended Friday. Aug. 21, 1925.

DEATHS DURING WEEK ENDED AUGUST 29, 1925

Summary of information received by telegraph from industrial insurance companies for week ended August 29, 1925, and corresponding week of 1924. (From the Weekly Health Index, September 1, 1925, issued by the Bureau of the Census. Department of Commerce

•	Week ended August 29, 1925	Corresponding week, 1924
Policies in force	60, 730, 631	54, 263, 831
Number of death claims	10, 570	8, 439
Death claims per 1,000 policies in force, annual rate.	9. 1	8. 1

Deaths from all causes in certain large cities of the United States during the week ended August 29, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, September 1, 1925, issued by the Bureau of the Census, Department of Commerce)

		nded Aug. 1925	Annual death rate per	death 1 year rate per		Infant mortality	
City	Total deaths	Death rate 1	1,000 corre- sponding week, 1924	Week ended Aug. 29, 1925	Corresponding week, 1924	rate week ended Aug. 29, 1925 3	
Total (66 cities)	5, 601	10. 5	10.8	847	843	3 73	
Albany 4	30	13, 1	12.3	0	6	0	
Atlanta	69	l		7	ğ		
Baltimore 4	163	10.7	11.6	22	26	66	
Birmingham	58	14.7	12.7	6	4		
Boston.	172	11.5	13.4	23	40	61	
BridgeportBuffalo	27 110	10. 4		2	1	32	
Cambridge	110	8.3	13.0 8.9	24 3	26	97	
Camden	20	8.1	7.8	4	3 4	52	
Chicago 4	534	9.3	9.4	81	73	64 72	
Cincinnati	110	14.0	14.6	14	18	83	
Cleveland	172	9.6	9.5	36	23	90	
Columbus	64	11.9	15. 2	12	7	110	
Dalias	39	10.5	10.8	7	6		
Dayton	32	9.6	13.6	2	7	31	
Denver.	86	16.0	15. 1	16	12		
Des Moines	23	8.0	10.8	3	3	51	
Detroit Duluth	248			66	46	113	
El Paso	19 24	9.0 11.9	12.0	3	3	65	
Erie	12	11.9	11.9	5	10		
Fall River 4	24	10. 3	10. 3	5	0	19	
Flint	18	7. 2	5.0	5	4 2	72 79	
Fort Worth	18	6.2	8.4	ĭ	6	19	
Grand Rapids	33	11.3	7.4	10	ĭi	157	
Houston	52	16.4	16.0	4	7	101	
Indianapolis	83	12. 1	15.0	10	18	71	
Jersey City	63	10.4	7. 2	8	7	57	
Kansas City, Kans	27	11.4	11. 1	2	2	42	
Kansas City, Mo	80	11.4	11.9	10	8		
Los Angeles Louisville	189			22	18	61	
Lowell	62 22	12. 5 9. 9	12. 3	8	10	70	
Lynn	12	6.0	11.7 10.1	6 3	10	104	
Memphis.	56	16.7	19.4	9	3 10	80	
Milwaukee	85	8.8	7.4	7	9	33	
Minneapolis	79	9.7	8. 7	9	5	33 48	
Nashville 4	39	14.9	20.3	3	9	10	
New Bedford	24	9.3	8.7	5	7	83	
New Haven	39	11.4	7.4	8	3	104	
New Orleans	132	16.6	16.6	21	19		

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

³ Data for 60 cities. Deaths for week ended Friday, Aug. 28, 1925.

Deaths from all causes in certain large cities of the United States during the week ended August 29, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, September 1, 1925, issued by the Bureau of the Census, Department of Commerce)—Continued

		ided Aug. 1925	Annual death rate per	Death 1 3	Infant mortality rate	
City	Total deaths	Death rate	1,000 corre- sponding week, 1924	Week ended Aug. 29, 1925	Corresponding week, 1924	week
New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough Newark, N. J Norfolk Oakland Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg Providence Richmond Rochester St. Louis St. Paul Salt Lake City ' San Antonio San Diego San Francisco Schenectady Toedo Tracoma Toledo Tracoma Toledo Trenton Washington, D. C Waterbury Wilmington, Del Worcester	53 33 404 404 41 72 168 58 22 47 21 118 22 28 6 16	9.3 6.6 8.5 11.1 9.0 11.3 10.7 9.0 13.1 10.6 13.3 7.9 9.6 11.5 11.5 11.5 11.5 11.5 11.5 11.5 11	9.6 6.8 9.1 11.0 7.9 18.8 8.1 11.0 13.3 14.8 10.9 12.2 7.9 10.3 9.1 10.6 12.1 12.2 13.4 15.0 15.1 11.7 10.9 15.1 11.7 10.9 15.1 11.7 10.9	154 8 577 73 15 15 15 3 6 0 0 5 2 27 77 12 27 3 3 8 8 7 7 11 18 5 2 2 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	171 13 68 70 12 811 46 35 60 29 35 10 42 21 16 41 22 24 20 88 816 42 74	62 28 59 76 70 18 68 55 50 34 97 110 30 64 84 96 62 22 23 64 225 54 22 23 30 88 88 82 33 72 131 124 86 81 81 81 81 81 81 81 81 81 81

⁴ Deaths for the week ended Friday, Aug. 28, 1925.

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 September 5, 1925

ALABAMA		ARKANSAS—continued	
	ases		Cases
Cerebrospinal meningitis		Typhoid fever	
Diphtheria		Whooping cough	_ 15
Dengue		CALIFORNIA	
Influenza			
Malaria		Cerebrospinal meningitis:	
Measles		Dinuba	. 1
Mumps		Los Angeles	. 1
Pellagra.		Diphtheria	
Pneumonia	14	Influenza	. 2
Poliomyelitis	3	Lethargic encephalitis—San Francisco	. 1
Scarlet fever	21	Measles	_ 10
Smallpox	2	Poliomyelitis:	
Tetanus.		Bakersfield	. 1
Trachoma		Exeter	
Tuberculosis		Fresno County	. 1
Typhoid fever	73	Gridley	. 1
Whooping cough	25	Los Angeles	
		Oakland	. 1
ARIZONA		Palo Alto	2
Scarlet fever	1	Pasadena.	. 1
Γuberculosis	4	Redondo Beach	. 1
Typhoid fever	3	San Diego.	. 1
		San Francisco	3
ARKANSAS		Santa Ana	. 3
Chicken pox	11	Stockton	2
Diphtheria	2		
Hookworm disease	2	Scarlet fever	27
nfluenza	11	Smallpox:	
Malaria	219	Los Angeles	
Measles	1	Scattering	10
Mumps	8	Typhoid fever:	
Ophthalmia neonatorum	2	Los Angeles	
Paratyphoid fever	1	Scattering	17
Pellagra	15	COLORADO	
carlet fever	4	(Exclusive of Denver)	
mallpox	2	Chicken pox	1
Prachoma	1	Diphtheria	
hereulosis	7	Influenzo	

COLORADO—continued		ILLINIOS—continued	
	ases	Poliomyelitis—Continued.	ase
Measles	1		
Mumps		Jefferson County	
Pneumonia	2	Kankakee County	
Poliomyelitis	1	Knox County	
Scarlet fever	14	Livingston County	
Tuberculosis	67	Macoupin County	
Typhoid fever		Peoria County	
Whooping cough		Rock Island County	. :
		Schuyler County	
CONNECTICUT		Stark County	. :
Chicken pox	3	Williamson County	
Diphtheria		Scarlet fever:	
Dysentery		Cook County	. 2
		Lawrence County.	
German measles			
Measles	4	St. Clair County	
Mumps	2	Scattering	. 43
Pneumonia (broncho)		Smallpox:	
Pneumonia (lobar)	9	Cook County	
Poliomyelitis	2	Tazewell County	. 8
Scarlet fever	7	Scattering	. :
Tetanus	1	Tuberculosis	219
Tuberculosis.	31	Typhoid fever:	
Typhoid fever	5	Cook County	. 10
Whooping cough		Jackson County	
W Hoobing congu	70		
DELAWARE		Montgomery County	
Tuberculosis	1	Saline County	
	9	Union County	
Typhoid fever		Scattering	
Whooping cough	3	Whooping cough	136
GEORGIA		INDIANA	
Actinomycosis	1	INDIANA	
		Cerebrospinal meningitis	. 1
Chicken pox	2	Chicken pox	
Conjunctivitis	5	Diphtheria	
Timbehania			
Diphtheria	31		43
Dysentery	31 8	Influenza	
		Influenza Measles	. 2
Dysentery	8	Influenza Measles Pneumonia	. 4
Dysentery Hookworm disease Influenza	8 2	Influenza Measles Pneumonia Poliomyelitis	4
Dysentery	8 2 11	Influenza Measles Pneumonia Poliomyelitis Scarlet fever	2 4 2 17
Dysentery	8 2 11 63 2	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox	2 4 2 17
Dysentery	8 2 11 63 2 6	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis	2 4 2 17 2 46
Dysentery	8 2 11 63 2 6 4	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox	2 4 2 17 2 46
Dysentery	8 2 11 63 2 6 4 10	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever	2 4 2 17 2 46 46
Dysentery	8 2 11 63 2 6 4 10	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2 4 2 17 2 46 46
Dysentery	8 2 11 63 2 6 4 10 1 6	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever	2 4 2 17 2 46 46
Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat	8 2 11 63 2 6 4 10 1 6 2	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever W hooping cough IOWA Cerebrospinal meningitis—Linden	2 4 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox	2 4 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria	2 4 2 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles	2 4 4 2 2 177 2 4 6 6 2 5 1 1 1 1 4 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps	2 4 4 2 2 177 2 4 6 6 2 5 1 1 1 1 4 1 1
Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Truberculosis Typhoid fever Typhus fever	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis:	2 4 2 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel	2 4 4 2 17 2 4 4 6 4 6 25
Dysentery Hookworm disease Influenza Malaria Measles Mumps Pellagra Pneumonia Poliomyelitis Scarlet fever Septic sore throat Smallpox Trachoma Truberculosis Typhoid fever Typhus fever Whooping cough	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden	2 4 2 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel	2 4 2 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith	2 4 2 17 2 46 46 25
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith	2 4 2 17 2 46 46 25 1 1 1 1 10
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 31 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids	2 46 46 25 11 11 11 12 11 11 12 11 11 11 11 11 11
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook	1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16 4 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16 4 1	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever	2 4 4 4 5 2 5 4 6 6 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Dysentery	8 2 11 63 2 6 4 10 1 1 6 2 2 1 1 17 50 5 2 31 16 4 1 1 1	Influenza Measles Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox	2 4 4 4 6 2 5 1 1 1 1 1 1 1 1 1 1 7 7 9
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16 4 1 1 1 32	Influenza Measles Pneumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox Typhoid fever	2 4 4 2 17 2 46 46 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 1 6 2 2 1 1 17 50 5 2 31 16 4 1 1 1	Influenza Measles Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox	2 4 4 2 17 2 46 46 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16 4 1 1 3 32 84	Influenza Measles Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox Typhoid fever Whooping cough	2 4 4 2 17 2 46 46 25 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 31 16 4 1 1 32 84 6	Influenza Measles Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox Typhoid fever Whooping cough	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Dysentery	8 2 11 63 2 6 4 10 1 6 2 2 1 17 50 5 2 2 31 16 4 1 1 3 32 84	Influenza Measles Preumonia Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough IOWA Cerebrospinal meningitis—Linden Chicken pox Diphtheria Measles Mumps Poliomyelitis: Adel Alden Cedar Rapids Corwith Fairfield Gladbrook Oskaloosa Scarlet fever Smallpox Typhoid fever Whooping cough	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

KANSAS—continued.		MASSACHUSETTS	
	Cases		Case
Diphtheria			
Dysentery			
Influenza	. 3	Conjunctivitis (suppurative)	_ 13
Measles	. 3	Diphtheria	_ 3
Mumps	. 7	German measles	
Ophthalmia neonatorum			. •
Pneumonia		Lethargic encephalitis.	• ;
Poliomyelitis:		Measles	
	. 1		
Bendena		Mumps	
Council Grove		Ophthalmia neonatorum	
Kensington		Pneumonia (lobar)	
Mildred		Poliomyelitis	
Minneapolis	. 1	Scarlet fever	
Newton	. 1	Septic sore throat	. 2
Ottawa	. 2	Tetanus	. 2
Valley Falls	. 1	Tuberculosis (all forms)	. 119
Wichita		Typhoid fever	
Scarlet fever	-	Whooping cough	131
Tuberculosis	-	l .	. 101
	-	MICHIGAN	
Typhoid fever		Diphtheria	
Whooping cough	. 66	Measles	. 13
LOUISIANA		Pneumonia	45
Diphtheria	. 15	Searlet fever	. 55
Influenza	. 6	Smallpox	
Malaria	. 23	Tuberculosis	
Pneumonia	27	Typhoid fever	
Poliomyelitis	1	Whooping cough	
Scarlet fever		w nooping cough	ш
Smallpox		MINNESOTA	
		Corchagning) maningitia	
Tuberculosis		Cerebrospinal meningitis.	
Typhoid fever		Chieken pox	
Whooping cough	14	Diphtheria	
MAINE		Influenza	3
Chicken pox	1	Measles	1
Diphtheria		Poliomyelitis	87
Measles	ī	Scarlet fever	56
	7	Tuberculosis	49
Mumps	í	Typhoid fever	6
Pneumonia.	-	Whooping cough	16
Poliomyelitis	1	Whooping coagnitions	10
Scarlet fever	4	MISSISSIPPI	
Tuberculosis	6	Diphtheria	21
Typhoid fever	3	Scarlet fever	12
Whooping cough	5	Smallpox	5
		Typhoid fever	74
MARYLAND 1			
Cerebrospinal meningitis	1	MISSOURI	
Diphtheria	27	(Exclusive of Kansas City)	
Dysentery	11	Chicken pox	4
German measles	1	Diphtheria	27
Influenza	13	Malaria	1
Lethargic encephalitis	1		1
	_	Measles	
Malaria	10	Mumps	9
Measles	13	Ophthalmia neonatorum	1
Mumps	4	Pneumonia	3
Ophthalmia neonatorum	1	Poliomyelitis	3
Paratyphoid fever	8	Scarlet fever	47
Pneumonia (broncho)	11	Smallpox	4
Pneumonia (lobar)	5	Tetanus	1
Poliomyelitis		Trachoma	16
·	3. 1		
	3		41
Scarlet fever	12	Tuberculosis	41
Cetanus	12 1	Tuberculosis Typhoid fever	62
Gearlet fever	12 1 42	Tuberculosis. Typhoid fever	
Carlet fever	12 1 42 60	Tuberculosis. Typhoid fever. Whooping cough	62 4 6
Gearlet fever	12 1 42 60	Tuberculosis. Typhoid fever	62

¹ Week ended Friday.

MONTANA—continued		NORTH CAROLINA—continued	
Ca	ses		ases
Measles.	1	Septic sore throat	1
Mumps	12	Sinalipox	11
Poliomyelitis:		Typhoid fever	37 49
Dagmar	1	Whooping cough	49
Missoula	1 11	OKLAHOMA	
Scarlet fever	1	(Exclusive of Tulsa and Oklahoma City)	
Smallpox	3	•••	
Tuberculosis	12	Diphtheria	1
Typhoid fever	8	Influenza	5
Whooping cough	٥	Malaria	53
NEBRASKA		Measles	1
Cerebrospinal meningitis	1	Pellagra	2
Chicken pox	4	Pneumonia	3
Diphtheria.	2	Poliomyelitis:	_
Measles	2	Cherokee	1
Mumps	2	Choctaw	1
Poliomyelitis	. 7	Scarlet fever	1
Scarlet fever	2	Typhoid fever	26
Tuberculosis	1	Whooping cough	4
Typhoid fever	6	OREGON	
Whooping cough	10		
• • •		Cerebrospinal meningitis	1
NEW JERSEY		Chicken pox	
Cerebrospinal meningitis	3	Diphtheria	
Chicken pox	9	Measles	2
Diphtheria	41	Mumps	
Influenza	3	Pneumonia	8 4
Measles	21	Poliomyelitis	1
Pneumonia	22	Scarlet fever	4
Poliomyelitis.	9	Smallpox	2
Scarlet fever.	23	Tuberculosis	8
Typhoid fever	31	Typhoid fever	4
Whooping cough	64	Whooping cough	7
NEW MEXICO		SOUTH CAROLINA	
	1	Dengue	1
Conjunctivitis	3	Diphtheria	59
Diphtheria 1	2	Influenza	34
Dysentery	-	Malaria	399
Mumps	1	Poliomyelitis	2
Paratyphoid fever	1	Scarlet fever	5
Poliomyelitis	9	Smallpox	1
Tuberculosis	20	Tubercules:s	36
Typhoid fever		Typhoid fever	56
Whooping cough	15	Whooping cough	35
		whooping cough	
NEW YORK			
		SOUTH DAKOTA	
(Exclusive of New York City)	42	SOUTH DAKOTA Chicken pox	4
(Exclusive of New York City) Diphtheria	42	SOUTH DAKOTA Chicken pox Diphtheria	2
(Exclusive of New York City) DiphtheriaInfluenza	3	SOUTH DAKOTA Chicken pox Diphtheria Influenza.	2
(Exclusive of New York City) Diphtheria Influenza Lethargic encephalitis	3 1	SOUTH DAKOTA Chicken pox	2 4 1
(Exclusive of New York City) Diphtheria	3 1 31	SOUTH DAKOTA Chicken pox	2 4 1 18
(Exclusive of New York City) Diphtheria	3 1 31 73	SOUTH DAKOTA Chicken pox	2 4 1 18 1
(Exclusive of New York City) Diphtheria	3 1 31	SOUTH DAKOTA Chicken pox	2 4 1 18
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47	SOUTH DAKOTA Chieken pox	2 4 1 18 1 4
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38	SOUTH DAKOTA Chicken pox	2 4 1 18 1
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38	SOUTH DAKOTA Chieken pox	2 4 1 18 1 4 9
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38 120	SOUTH DAKOTA Chieken pox	2 4 1 18 1 4 9 1
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38	SOUTH DAKOTA Chicken pox	2 4 1 18 1 4 9 1
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38 120	SOUTH DAKOTA Chicken pox	2 4 1 18 1 4 9 1
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38 120 2 91 3	SOUTH DAKOTA Chicken pox	2 4 1 18 1 4 9 1 1 8 2 8
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38 120 2 91 3	SOUTH DAKOTA Chicken pox	2 4 1 18 1 4 9 1 1 8 2 8 12
(Exclusive of New York City) Diphtheria	3 1 31 73 23 47 38 120 2 91 3	SOUTH DAKOTA Chicken pox	2 4 1 18 1 4 9 1 1 8 2 8

² The Public Health Service is advised that report of 13 cases of diphtheria in Bernalillo County, N. Mex. week ended Aug. 15, 1925, was incorrect and should have been report of 2 cases.

³ Deaths.

TEXAS—continued		WEST VIRGINIA	
	Cases	1	ases
Mumps		Diphtheria	. 4
Paratyphoid fever		Scarlet fever	. 7
Pellagra		Smallpox	
Pneumonia.		Typhoid fever	. 21
Poliomyelitis		WISCONSIN	
Scarlet fever		l .	
Smallpox		Milwaukee:	_
TrachomaTuberculosis		Chicken pox	
Typhoid fever		Diphtheria	
Typhus fever		Mumps	
Whooping cough		Pneumonia Scarlet fever	
VERMONT Diphtheria	2	Tuberculosis	
Measles		Typhoid fever	
Mumps		Whooping cough	54
Typhoid fever		Scattering:	_
Whooping cough		Cerebrospinal meningitis	
	•••	. Chicken pox	
VIRGINIA		Diphtheria	
Typhus fever—Henrico County	1	German measles	
WASHINGTON		Influenza.	_
Cerebrospinal meningitis—Tacoma	1	Lethargic encephalitis	2
Chicken pox		Measles	
Diphtheria		Mumps	
Measles		Pneumonia.	
Mumps		Poliomyelitis	
Pneumonia	1	Scarlet fever	
Poliomyelitis:		Smallpox	1
King County	1	Tuberculosis	
Kitsap County	1	Typhoid fever	5
Pierce County	1	Whooping cough	128
Seattle	2	WYOMING	
Skagit County	4	W TOMING	
	-		
Snohomish County	1	Chicken pox	1
Snohomish County Tacoma	1 1	Diphtheria	1 5
Snohomish County Tacoma Scarlet fever	1 1 8	Diphtheria Influenza	
Snohomish County Tacoma Scarlet fever Smallpox	1 1 8 11	Diphtheria Influenza Poliomyelitis-Goshen	5
Snohomish County	1 8 11 42	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever	5 5 1 7
Snohomish County	1 8 11 42 11	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis	5 5 1 7
Snohomish County	1 8 11 42	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever	5 5 1 7
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever	5 5 1 7
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough	1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis	5 5 1 7
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca	1 1 8 11 42 11 21 En	Diphtheria	5 5 1 7 2 2
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles	1 1 8 11 42 11 21 En	Diphtheria	5 5 1 7 2 2 2
Snohomish County	1 1 8 11 42 11 21 En ses 2 7	Diphtheria	5 5 1 7 2 2 2 ses 30 31
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia. Poliomyelitis	1 1 8 11 42 11 21 En	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever.	5 5 1 7 2 2 2 ses 30 31 35
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever	1 1 8 11 42 11 21 En ses 2 7 2 7	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. Whooping cough	5 5 1 7 2 2 2 ses 30 31 35
Snohomish County Tacoma Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis.	1 1 8 11 42 11 21 En ses 2 7 2 7 27	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever Typhoid fever Whooping cough	5 5 1 7 2 2 2 ses 30 31 35 135
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever	1 1 8 11 42 11 21 En ses 2 7 2 7 2 7 3	Diphtheria	5 5 1 7 2 2 2 ses 30 31 35 135
Snohomish County Tacoma Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.	1 1 8 11 42 11 21 En ses 2 7 2 7 27	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps	5 5 1 7 2 2 2 2 sses 30 31 35 135
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough	1 1 8 11 42 11 21 En En Sees 2 7 2 7 3 16	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Poliomyelitis Scarlet fever Typhoid fever Whooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia	5 5 1 7 2 2 2 2 sses 30 31 35 135 7 2 1
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria	1 1 8 11 42 11 21 En ses 2 7 2 7 2 7 3	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever Typhoid fever W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Scarlet fever Source fever NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever	5 5 1 7 7 2 2 2 sses 30 31 35 135 7 2 1 15
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles	1 1 8 11 42 11 21 En En Ses 2 7 2 7 2 7 3 16 1 1 1	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever. Tuberculosis	5 5 1 7 7 2 2 2 sses 30 31 35 135 7 2 1 15 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps	1 1 8 11 42 11 21 En Ses 2 7 2 7 27 3 16 1	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever.	5 5 1 7 2 2 2 2 2 30 31 35 135 7 2 1 15 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles	1 1 8 11 42 11 21 En En Ses 2 7 27 3 16 1 1 3	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever Typhoid fever Whooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Tuberculosis Typhoid fever Whooping cough	5 5 1 7 7 2 2 2 sses 30 31 35 135 7 2 1 15 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox	1 1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis. Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough Scarlet fever. Tuberculosis Typhoid fever. Whooping cough South Carolina Dengue.	5 5 1 7 2 2 2 2 2 30 31 35 135 7 2 1 15 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Scarlet fever Scarlet fever Smallpox Typhoid fever Smallpox Typhoid fever	1 1 8 11 42 11 21 En Ses 2 7 2 7 3 16 1 1 3 6 8 2 2 2	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis. Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough Scarlet fever. Tuberculosis Typhoid fever. Whooping cough South Carolina Dengue.	5 5 1 7 2 2 2 sses 30 31 35 135 7 2 1 15 5 1 26
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox	1 1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Whooping cough Scarlet fever Tuberculosis Typhoid fever Whooping cough South Carolina Dengue Diphtheria	5 5 1 7 2 2 2 2 sess 30 31 35 135 7 2 1 15 5 1 2 6 4
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Scarlet fever Scarlet fever Smallpox Typhoid fever Smallpox Typhoid fever	1 1 8 11 42 11 21 En Ses 2 7 2 7 3 16 1 1 3 6 8 2 2 2	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Whooping cough Scarlet fever Tuberculosis Typhoid fever Whooping cough South Carolina Dengue Diphtheria	5 5 1 7 2 2 2 2 Sees 30 31 35 135 7 2 1 15 5 1 26 4 41 31
Snohomish County Tacoma Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough NEBRASKA Diphtheria. Measles. Mumps. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Smallpox Typhoid fever. Whooping cough NEBRASKA Diphtheria. Measles. Mumps. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Whooping cough NEW YORK (Exclusive of New York City)	1 1 8 11 42 11 21 En Ses 2 7 2 7 3 16 1 1 3 6 8 2 2 2	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever Typhoid fever Whooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Whooping cough South Carolina Diphtheria Diphtheria Scarlet fover Tuberculosis Typhoid fever Whooping cough South Carolina Dengue Diphtheria Influenza	5 5 1 7 2 2 2 2 Sees 30 31 35 135 7 2 1 15 5 1 26 4 41 31
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Scarlet fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Cerebrospinal meningitis	1 1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Whooping cough South Carolina Diphtheria Diphtheria Influenza Malaria Poliomyelitis Scarlet fever Diphtheria South Carolina Dengue Diphtheria Influenza Malaria Poliomyelitis Scarlet fever	5 5 1 7 2 2 2 Sees 3 30 31 35 135 7 2 1 15 5 1 26 4 41 31 166 5 7 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Cerebrospinal meningitis Diphtheria	1 1 8 11 42 11 21 En Ses 2 7 2 7 3 16 1 1 3 6 8 2 2 5 5 1 37	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever Tuberculosis Typhoid fever ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever Typhoid fever Whooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever Tuberculosis Typhoid fever Whooping cough South Carolina Diphtheria Influenza Malaria Poliomyelitis Scarlet fever Smallpox	5 5 1 7 2 2 2 2 30 31 35 7 2 1 15 5 1 26 4 41 31 865 7 5
Snohomish County Tacoma Scarlet fever Smallpox Tuberculosis Typhoid fever Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles Pneumonia Poliomyelitis Scarlet fever Tuberculosis Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough NEBRASKA Diphtheria Measles Mumps Poliomyelitis Scarlet fever Smallpox Typhoid fever Whooping cough NEW YORK (Exclusive of New York City) Cerebrospinal meningitis Diphtheria Influenza	1 1 8 11 42 11 21	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough Scarlet fever. Tuberculosis Typhoid fever. Whooping cough South Carolina Dengue Diphtheria Influenza Malaria Poliomyelitis Scarlet fever Scarlet fever South Carolina Dengue Diphtheria Influenza Malaria Poliomyelitis Scarlet fever Smallpox Tuberculosis	5 5 1 7 2 2 2 sees 30 31 35 135 7 2 1 15 5 1 26 4 41 31 865 7 5 1 46
Snohomish County Tacoma Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough Reports for Week DISTRICT OF COLUMBIA Ca Measles. Pneumonia. Poliomyelitis. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough NEBRASKA Diphtheria. Measles. Mumps. Poliomyelitis. Scarlet fever. Smallpox. Typhoid fever. Whooping cough NEBRASKA Diphtheria. Measles. Mumps. Poliomyelitis. Scarlet fever. Smallpox Typhoid fever. Whooping cough NEW YORK (Exclusive of New York City) Cerebrospinal meningitis. Diphtheria. Influenza. Measles.	1 1 8 11 42 11 21 En Ses 2 7 2 7 3 16 1 1 3 6 8 2 2 5 5 1 37	Diphtheria Influenza Poliomyelitis-Goshen Scarlet fever. Tuberculosis Typhoid fever. ded August 29, 1925 NEW YORK—continued Ca Poliomyelitis Scarlet fever. Typhoid fever. W hooping cough NORTH DAKOTA Diphtheria Mumps Pneumonia Scarlet fever. Tuberculosis Typhoid fever. Whooping cough South Carolina Diphtheria Influenza Diphtheria Influenza Malaria Poliomyelitis Scarlet fever Smallpox Tuberculosis Typhoid fever. Scarlet fever Smallpox Tuberculosis Typhoid fever Smallpox Tuberculosis Typhoid fever	5 5 1 7 2 2 2 2 30 31 35 7 2 1 15 5 1 26 4 41 31 865 7 5

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

The following items were taken from the reports of plague-eradicative measures from the cities named:

Los Angeles, Calif.

Los Angeles, Calij.	
Week ended Aug. 22, 1925:	
Number of rats trapped	2, 305
Number of rats found to be plague infected	
Number of squirrels examined	. 540
Number of squirrels found to be plague infected	. 0
Number of mice trapped	2, 318
Number of mice found to be plague infected	. 0
Date of discovery of last plague-infected rodent, Aug. 22, 1925.	
Date of last human case, Jan. 15, 1925.	
Oakland, Calif.	
(Including other East Bay communities)	
Week ended Aug. 22, 1925:	á.
Number of rats trapped	1, 191
Number of rats found to be plague infected	
Totals:	ŭ
Number of rats trapped Jan. 1 to Aug. 22, 1925	65, 444
Number of rats found to be plague infected	
Number of squirrels examined May 1 to Aug. 1, 1925	7, 277
Number of squirrels found to be plague infected	0
Date of discovery of last plague-infected rat, Mar. 4, 1925.	
Date of last human case, Sept. 10, 1919.	
New Orleans, La.	
Week ended Aug. 22, 1925:	
Number of vessels inspected	16
Number of inspections made	
Number of vessels fumigated with cyanide gas	
Number of rodents examined for plague	2, 799
Number of rodents found to be plague infected	-, 0
Totals, Dec. 5, 1924, to Aug. 22, 1925:	
Number of rodents examined for plague	160, 144
Number of rodents found to be plague infected.	12
Date of discovery of last plague-infected rat, Jan. 17, 1925.	
Date of last human case occurring in New Orleans, Aug. 20, 1920.	

POLIOMYELITIS IN THE UNITED STATES

Cases of poliomyelitis reported by State health officers for the six weeks ended August 29, 1925, compared with reports for the corresponding period of 1924

State	1924	1925	State	1924	1925
Alabama Arizona Arkansas California Colorado	3 1 1 10	23 14 0 270 12	Missouri Montana Nebraska New Jersey New York	1 1 37 0 14 403	1 61 18 21 67 274
Connecticut Delaware District of Columbia Florida Georgia	45 0 1 0	21 1 0 6 23	North Carolina North Dakota Oregon South Dakota Texas	6 2 0 5 3	33 1 41 2 5
Illinois Indiana Kansas Louisiana	44 20 4	52 9 38 7	Vermont Washington West Virginia Wisconsin	1 21 1 3	26 26 78
Maine Maryland Massachusetts Minnesota	35 61 45 16	5 8 33 326	Wyoming	785	1, 498

¹ Incomplete.

Cases of poliomyelitis reported by the health officers of 32 States July 19 to August 29, 1925, and July 20 to August 30, 1924, by weeks

Week ended—	1924	Week ended—	1925
July 26. Aug. 2. Aug. 9. Aug. 16 Aug. 23. Aug. 30. Total	66 75 99 149 166 230	July 25	172 218 275 279 278 276 1, 498

¹ Incomplete.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended August 22, 1925, 34 States reported 837 cases of diphtheria. For the week ended August 23, 1924, the same States reported 961 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of more than 28,700,000, reported 382 cases of diphtheria for the week ended August 22, 1925. Last year for the corresponding week they reported 495 cases. The estimated expectancy for these cities was 564 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-one States reported 395 cases of measles for the week ended August 22, 1925, and 430 cases of this disease for the week ended August 23, 1924. One hundred and two cities reported 172 cases of measles for the week this year, and 137 cases last year.

Poliomyelitis.—The health officers of 36 States reported 289 cases of poliomyelitis for the week ended August 22, 1925. The same States reported 168 cases for the week ended August 23, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-four States—this year, 672 cases; last year, 732 cases; 102 cities—this year, 291, last year, 291 cases; estimated expectancy, 223 cases.

Smallpox.—For the week ended August 22, 1925, 34 States reported 125 cases of smallpox. Last year for the corresponding week, they reported 191 cases. One hundred and two cities reported smallpox for the week as follows: 1925, 30 cases; 1924, 71 cases; estimated expectancy, 20 cases. One death from smallpox was reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One thousand and ninety cases of typhoid fever were reported for the week ended August 22, 1925, by 34 States. For the corresponding week of 1924 the same States reported 765 cases. One hundred and two cities reported 314 cases of typhoid fever for the week this year, and 246 cases for the corresponding week last year. The estimated expectancy for these cities was 236 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 102 cities as follows: 1925, 309 deaths; 1924, 258 deaths.

City reports for week ended August 22, 1925

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence 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.

		a	Diphi	heria	Influ	ienza			
Division, State, and July city 192	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine:									
Portland	73, 129	0	1	0	0	0	2	0	1
New Hampshire:		ŭ	-			"	_	Ů	_
Concord.	22, 408	0	0	0	0	0	0	0	0
Manchester	81, 383		1	i	Ö	Ŏ	Ŏ		
Nashua	29, 234	0	1	0	0	Ō	Ô	0	0
Vermont:									
Barre	1 10, 008	0	0	0	0	0	0	0	0
Burlington	23, 613	0	1	0	0	0	1	0	0
Massachusetts:		1							
Boston	770, 400	4	3 3	10	0	0	11	1	7
Fall River	120, 912	1	2	1	0	0	8	0	0
Springfield	144, 227	0	2 2 2	1	0	0	0	0	0
Worcester	191, 927	0	2	2	0	0	7	1	2
Rhode Island:		_			_		_		
Pawtucket	68, 799	0	0	1	. 0	0	0	0	0
Providence	242, 378	0 1	6	2	0	0	9	0	1

	•				·				
		Chick-	Diph	theria	Influ	ienza	Mea-		Dmars
Division, State, and city	Population July 1, 1923, estimated	en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND—con.									
Connecticut: Bridgeport Hartford New Haven	1 143, 555 1 138, 036 172, 967	0 0 1	3 3 2	3 1 0	0 0 0	0 0 0	1 1 0	0 0 0	0 3 2
MIDDLE ATLANTIC New York:									
Buffalo New York Rochester Syracuse	536, 718 5, 927, 625 317, 867 184, 511	0 22 2 0	11 103 4 4	1 95 2 0	0 1 0 0	0 1 0 0	0 28 6 0	0 6 0 0	4 76 1 2
New Jersey: Camden Newark Trenton	124, 157 438, 699 127, 390	0 2 0	1 7 3	1 3 0	1 1 0	1 0 0	2 8 1	0 1 0	0 3 1
Pennsylvania: Philadelphia Pittsburgh Reading	1, 922, 788 613, 442 110, 917	9 3 0	31 16 2	39 3 0	0 0 0	1 0 0	12 11 7	1 1 1	23 17 1
EAST NORTH CENTRAL									
Ohio: Cincinnati Cleveland Columbus Toledo	406, 312 888, 519 261, 082 268, 338	2 9 0 2	5 20 2 5	1 11 0 8	0 1 0	1 0 1	0 5 0 2	0 1 0	3 8 2 3
Indiana: Fort WayneIndianapolis	93, 573 342, 718	1 3	1 6	2 0	0	0	0 1 0	0 4 0	2 3 2 0
South Bend	76, 709 68, 939	0	1 1	0	0	0	0	0	
Chicago	2, 886, 121 55, 968 61, 833	15	68 1 1	41		0	14	3	25 2
Michigan: Detroit	995, 668 117, 968 145, 947	7 2 0	32 4 2	12 0 0	0	0	2 0 1	0	4 0 2
Wisconsin: Madison	42, 519	0	1	o	o	o	4	0	0
Milwaukee	484, 595 64, 393 1 39, 671	3 2 0	10 0 1	3 2 0	0	0	0 0 0	3 0 0	3 0 2
WEST NORTH CENTRAL		ŀ	1	l		1			
Minnesota: Duluth Minneapolis. St. Paul	106, 289 409, 125 241, 891	0 14 3	2 11 11	0 19 3	0	0	1 0 1	0	1 1 4
Iowa: Davenport Sioux City Waterloo	61, 262 79, 662 39, 667	0 0 2	0	0 0 1	0 -	0	0	0	
Missouri: Kansas City St. Joseph St. Louis	351, 819 78, 232 803, 853	1 0	3 1 19	3 0 18	0	0	0	1 1 0	4 0
North Dakota: FargoGrand Forks	24, 841 14, 547	0	1 0	0	0	0	0	2 0	1
South Dakota: Aberdeen Sioux Falls	15, 829 29, 206	0	0	0 2	0 -		0	0 -	ō
Nebraska: Lincoln Omaha	58, 761 204, 382	0 2	1 5	3 2	0	0	0	4 0	0 2
Kansas: Topeka Wichita	52, 555 79, 261	0	1	1 0	0	0	0	0	0 1

¹ Population Jan. 1, 1920.

			Dipht	heria	Influ	ienza			
Division, State, and city	rision, State, and July 1, ease city 1923, estimated re-	Chick- en pox, cases re- ported	Cases, esti- mated expec- tancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
SOUTH ATLANTIC									
Delaware: Wilmington	117, 728	0	1	3	0	0	1	0	3
Maryland: Baltimore	773, 580	6	11	8	0		11	4	9
Cumberland	32, 361	0	0	3	Ó	0	0	Ō	Ó
Frederick District of Columbia: Washington	11, 301 1 437, 571	0 2	1 3	0 5	0	0	0	0	0 2
Virginia:					-		_		
Lynchburg Norfolk	30, 277 159, 089	0	1	1 0	0	0	0	0	1 0
Richmond	181,044	0	4	6	0	0	0	6	1
Roanoke West Virginia:	55, 502	0	2	0	0	0	0	σ	0
Charleston	45, 597	0	1	1	0	0	0	0	1
Huntington Wheeling	57, 918 1 56, 208	0	0	. 0	0	0	2 0	0	1
North Carolina:		0	0	1	0	0	0	0	2
Raleigh Wilmington	29, 171 35, 719	1	ŏ	Ó	ŏ	ŏ	0	ŏ	0
Winston-Salem South Carolina:	5 6, 230	0	1	1	0	. 0	1	0	1
Charleston	71, 245	0	1.	0	0	0	0	0	0
Columbia Greenville	39, 688 25, 789	0	1 1	0	0		0	0	0
Georgia:		-							
Atlanta Brunswick	222, 963 15, 937	1	3	1 1	1 0	0	0	0	8
Savannah	89, 448	Ŏ	ĭ	Ō	Ŏ	0	Ŏ	Ō	2
Florida: St. Petersburg	24, 403		0						
Tampa	56, 050	0	1	0	1	0	0	0	0
EAST SOUTH CENTRAL									
Kentucky:	E7 077	0	1	0	0	0	0	0	2
Covington Louisville	57, 877 257, 671	ŏ	3	ŏ,	ĭ	ő	ŏ	ĭ	î
Tennessee: Memphis	170,067	0	3	1	o	1	0	o	7
Nashville	121, 128	ŏ	ĭ	î	ŏ	ő	ĭ	ŏ	ò
Alabama: Birmingham	195, 901	0	3	4	0	1	اه	o	3
Mobile	63, 858	0	Ō	3	Ō	ō	0	0	ĭ
Montgomery	45, 383	0	0	2	0		0	1	
WEST SOUTH CENTRAL		İ						į	
Arkansas: Fort Smith	20 625	0	1	0	0		o	0	
Little Rock	30, 635 70, 916		i	ŏ	ŏ	0	ŏ		ő
Louisiana: New Orleans	404, 575	0	7	4	2	1	o	اه	3
Shreveport	54, 590	ŏ	i	õ	ő	ê [ŏ	ŏ	4
Oklahoma: Oklahoma	101, 150	0	1	o	0	0	اه	0	1
Tulsa	102, 018	ŏ	î	3	ŏ		ĭ	ŏ	Ō
Texas: Dallas	177, 274		3	4	0	1	2		2
Galveston	46, 877	0	1 2	1 4	0	0	0	0	1 4
Houston San Antonio	154, 970 184, 727	0	ő	0	0	0	ŏ	ĭ	2
MOUNTAIN				.				: [
Montana:		1	- 1	ŀ	l	- 1	l	I	
Billings	16, 927 27, 787		0	0	0	0	0	1 7	0
Great Falls Helena	1 12, 037	1	1	1	o l	0	0		0
MissoulaIdaho:	1 12, 668	0	0	0	0	0	0	0	0
Boise	22, 806	ol	0	1	0	o l	o l	0	0

¹ Population Jan. 1, 1929.

					r	Diphtl	heria	Ir	ıØv	ienza			_
Division, State, city	and	Populat July 1 1923, estimat	od e	hick- pot, ases re- orted	Cas ess ma exp tan	ti- ted ec-	Cases re- ported	Case re- porte	-	Deaths re- ported	Mea- sles, cases re- ported	Mumps cases re- ported	Pneu- monia, deaths re- ported
MOUNTAIN-cont	inued						-						
Colorado: Denver Pueblo		272, 0 43, 5		1		8 2	2 4		0	1 0	1 0	0	3 3
New Mexico: Albuquerque. Arizona:		16, 6	48	0		0	0		0	0	0	. 0	0
Phoenix Utah:	i i	33, 8	- 1	0			0		0	Ō	0	0	0
Salt Lake City Nevada: Reno	1	126, 2 12, 4	- 1	1		0	0		0	0	2	8	0
PACIFIC		14, 1	2.0	Ů			ľ		۱	ı "	Ů	U	"
Washington: Seattle Spokane Tacoma		¹ 315, 6 104, 5 101, 7	85 73 31	3 2 2		3 2 1	1 8 4	(0	0	0 0 2	3 0 0	0
Oregon: Portland California:		273, 6	21	4		3	6	,	0	o	0	3	2
Los Angeles Sacramento San Francisco		666, 8 69, 9 539, 0	50	2 0 10		23 1 14	22 3 2	(0 1 1	1 0 1	1 4	7 0 6
	Scarle	et fever		Sma	llpox		(Dock of		T	yphoid f	ever		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases esti- mated expect ancy	Cas	-	Death re- ported	re-	Cas	i- ed ect		Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
NEW ENGLAND													
Maine: Portland New Hampshire:	1	0	0		0	0	1	ı	1	1	0	0	14
Concord Manchester Nashua Vermont:	0 1 0	0	0 0 0		0	0 0 0	0		0	0	0	1 0	6 18 8
Burlington Massachusetts:	1	0	0	•	0	0			0	8	0	4 0	2 4
Boston Fall River Springfield Worcester	10 1 1 2	14 0 0 13	0 0 0 0		0 0 0 0	0 0 0		:	4 2 1 0	6 1 1 3	0 0 0	39 3 8 9	172 19 26 38
Rhode Island: Pawtucket Providence	0 2	1 4	0		0	0	1 4		0	0	0	0 2	
Connecticut: Bridgeport Hartford New Haven	1 1 1	2 1 2	0 0 0	1	0	0 0 0	2 3 0	1	0 2 4	1 0 0	0	0 3 21	35 33 23

5 1

2 0

ō

0 0

0

3 3

MIDDLE ATLANTIC

New York:
Buffalo...
New York...
Rochester...

3 1

43

2 2

12 9

0

78 33

Syracuse
New Jersey:
Camden
Newark
Trenton ¹ Population Jan. 1, 1920.

² Pulmonary tuberculosis only.

	Scarle	t fever		Smallpo)X	Tuber-	T	phoid f	ever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
MIDDLE ATLANTIC— continued											
Pennsylvania: Philadelphia Pittsburgh Reading	14 6 0	13 5 0	0	0 0 0	0 0 0	42 8 0	14 4 2	9 4 0	2 1 0	45 6 17	417 162 26
EAST NORTH CENTRAL									٠		
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	3 7 2 6	4 5 0 3	0 1 0 0	0	0 0 0	9 9 2 6	3 6 2 2	4 6 5 4	1 1 1 2	2 65 7 4	122 158 73 69
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	0 2 1 0	0 2 1 0	0 1 0 1	0 0 0	0 0 0	0 3 0 1	1 3 1 0	15 1 0 1	0 1 0 0	0 18 3 0	20 81 20 21
Chicago Cicero	24 0	25	1 0	0	0	32	6	4	0	71	565
Springfield Michigan:	0	0	0	0	o o	2	1	0	0	0	23
Detroit	18 3 1	28 0 . 3	2 0 0	0 0 3	0 0 0	32 1 1	5 1 0	5 0 1	0	109 4 5	249 20 31
Madison Milwaukee Racine Superior	0 8 1 1	2 3 3 2	0 1 0 0	0 0 0	0 0 0 0	0 5 2 1	0 1 0 0	0 0 0 0	0 1 0 0	0 78 6 0	4 63 7 10
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul Iowa:	2 7 3	13 16 7	0 2 1	0 0 0	0 0 0	2 7 1	0 2 1	0 0 1	0 0 1	0 4 21	18 84 47
Davenport Sioux City Waterloo	0 0 1	0 1 1	0 1 0	0 3 0			0 0 0	0		0	
Missouri: Kansas City St. Joseph St. Louis	2 0 5	4 1 19	0 0 0	0 0	0	8 0 12	4 1 8	3 0 14	0 0 1	6 0 21	86 23 212
North Dakota: Fargo Grand Forks	1 1	2 0	0	0	0	1	0	0	0	15 6	7
South Dakota: Aberdeen Sioux Falls	0	0	0	0	0	1	0	0	0	0	<u>8</u>
Nebraska: Lincoln Omaha	0	1 3	0	0	0	1 2	1 0	0 2	0	6	8 45
Kansas: Topeka Wichita	1	1 0	0	0	0	0 2	2 2	1 2	0	2 6	12 31
SOUTH ATLANTIC							İ		l		
Delaware: Wilmington Maryland:	0	0	0	0	o	4	o	0	0	0	22
Baltimore Cumberland Frederick	5 1 0	3 0 0	0	0	0	17 0 0	9 1 0	18 2 0	3 0 0	64 0 0	192 9 5

	Scarle	et fever		Smallp	ox .	Tuba	T	phoid i	le ver	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing nough, cases re- ported	Deaths, all causes
SOUTH ATLANTIO— continued											
District of Co- lumbia: Washington Virginia: Lynchburg Norfolk	3 0 0	2 1 0	0	0 0	0 0	5 1 5	6 1 2 3	3 1 0	1 0 0	18 0	106 4
Richmond Roanoke West Virginia:	2 0	1	0	0	0	5 0	3	4 2	0	1 2	41 9
Charleston Huntington Wheeling North Carolina:	0 0 1	0 1 1	0	0 0 0	0 0	0	1 1 0	0 2 4	0	3 0 0	12 13
Raleigh Wilmington Winston-Salem	1 0 0	0 1 5	0 0 1	0 0 1	0 0 0	3 0 1	1 1 2	0 0 2	0	1 0 2	16 7 14
South Carolina: Charleston Columbia	0 1	0	0	0	0	4	2 2	7	0	0	32
Greenville Georgia:	0	0	0	1	0	0	0	0	1	0	. 6
Atlanta Brunswick Savannah	3 0 0	2 0 0	1 0 0	0	0 0	0	4 0 1	9 1 0	1	0	67 23
Florida: St. Petersburg Tampa	0	<u>i</u>	0		0	0	0	0	0	ō	29
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville Tennessee:	0	0 1	0	1 0	0	0 5	0 5	0 5	0 2	0 2	21 92
Memphis Nashville	1 1	0	0	0	0	8 2	6	19 6	1 2	1	. 69 41
Alabama: Birmingham Mobile Montgomery	2 0 1	4 0 1	0	6 0 0	0	6 3	7 1 1	0 0 2	1 0	0	56 26
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock	0	1 0	0	0		i	0 2	0 9	0	0	·····
Louisiana: New Orleans Shreveport	1	4	0	0	0	11 2	5	11 5	3	14	163 28
Oklahoma: Oklahoma Tulsa	1 0	0	0	0	0	0	2 3	6 3	1	0	17
Texas: Dallas	2	5	0	0	0	2	5	2	2		55
Galveston Houston San Antonio	0	0 1 0	0	0 1 0	0	1 4 9	0 1 1	0 0 2	0 0 1	0	13 64 59
MOUNTAIN			1					ł			
Montana: Billings Great Falls Helena Missoula	0 1 0	4 2 0	0	0 1 0 0	0	1 0 1 0	0 1 0	0 1 0 2	0	1	5 8 5 3
Idaho: Boise Colorado:	0	0	0	0	0	0	0	0	0	0	4
Denver	2	0	1 0	0	0	11	4	2 2	0	36	81 14

	Scarle	t fever		Smallp	OX.	Tuber	Т	phoid fo		Wheen	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect ancy	re-	Deaths re- ported	re-	Cases, esti- mated expect- ancy	re-	Deaths re- ported	Whooping cough, cases re- ported	Deaths, all causes
MOUNTAIN-con.											
New Mexico: Albuquerque Arizona: Phoenix Utah:	0	1 0	0	0	0	5 2	1	4	0 0	0 2	i0 11
Salt Lake City Nevada: Reno	1 0	0	0	0	0	0	1	0	1 0	15 0	29
PACIFIC											
Washington: Seattle Spokane Tacoma Oregon:	3 2 1	3 0 1	2 1 1	1 0 2	0	0	1 1 1	3 0 0	0	13 2 3	24
Portland	3	2	4	0	0	4	1	4	0	0	
Los Angeles Sacramento San Francisco	4 1 5	9 0 2	0 1 -0	9 0 3	0 0	19 2 8	1 2	13 6	2 0 0	38 0 9	200 13 119
		ebrospii eningiti		ethargi cephalit	is P	ellagra		iomyelit tile para	is (infan- lysis)	Typh	us fever
Division, State, an city	ı	Deat	hs Cas	es Deat	hs Case	s Death	Case esti	ed Case	es Death	Cases	Deaths
NEW ENGLAND											
Massachusetts: Boston Springfield Rhode Island: Providence			Ö	0 1 0	0 1	' '	0	2 1	1 (0	0
Connecticut: Bridgeport		1	1	0	0 0	ļ	0	0 1	. 1	0	
MIDDLE ATLANTIC						İ					
New York: New York City Rochester New Jersey:	1	3		7	1 0	' '	0	8 15		0	0
Newark			i	2	0 0			0 1	İ	1	0
EAST NORTH CENTRA		`	1	1	1						
Ohio: Cleveland Toledo Illinois:				0	1 0		3	1 9			0
Chicago Michigan:	- 1	1	1	0	0 0	ł		6 7	ı		0
Detroit WEST NORTH CENTRA	1	1	1	-	1 0	'		1 '			,
Minnesota:									1.		
Duluth	: }		0		0 0		3	0 3 0 5 0 1	. 1	0	0 0
Kansas City St. Joseph	<u>-</u> 8			8	0 0			0 6	1		0

City reports for week ended August 22, 1925-Continued

			,				_				
	Cercl	o rospin al ningitis	Let	hargic phalitis	Pe	llagra	Police til	nyeliti e par a l;	finfan- ysis)	Typi	us fever
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	Cases	Deaths
WEST NORTH CEN- TRAL—continued											
North Dakota: Fargo Nebraska:	o		o	1	o	0	0	0	.0	0	. 0
Omaha	0	0	0	0	0	0	0	1	1	0	0
Kansas: Topeka	0	. 0	0	0	0	0	0	3	0	0	0
SOUTH ATLANTIC	·	:			Ů						,
Maryland: Baltimore District of Columbia:	0	0	0	0	0	1	2	0	0	0	0
Washington	0	0	1	1	0	0	0	1	0	0	0
Virginia: Richmond	0	0	0	0	1	0	0	0	0	0	0
South Carolina: Charleston	0		0	0	0	- 1			_		•
Georgia:	- 1	0	- 1	-	- 1	0	0	0	1	.0	0
Atlanta Savannah	0	0	0	0	0	2 1	0	1 0	0	0	0
BAST SOUTH CENTRAL]									, ,	
Tennessee: MemphisAlabama:	0	0	0	o	0	1	0	0	0	o	0
Birmingham	o l	0	0	o l	0	0	0	1	0	0	0
Mobile Montgomery Montgomery	0	0	8	0	0	1 0	0	0	0	0	0
WEST SOUTH CENTRAL	-				1						
Louisiana: New Orleans 1 Shreveport	0	0	0	0	0	0 3	0	2 0	1 0	0	0
MOUNTAIN	l	ł	1	l	l	1			İ	.	•
Montana: Billings	0	o	اه	0	0	0	0	1	0	0	0
Arizona: Phoenix	0	0	o	0	0	0	١	1	1	0	0
PACIFIC				1					1		·
Washington:		l			1						
Scattle Tacoma California:	0	0	0	0	0	8	0	2	0	0	0
Los Angeles Sacramento San Francisco	1 0 1	2 0 1	0 0 1	0	0 0 1	0 0 1	0	16 1 2	3 1 0	0	0 0 0

¹⁵ cases of dengue reported at New Orleans.

The following table gives the rates per hundred thousand population for 105 cities for the 10-week period ended August 22, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 105 cities reporting cases had an estimated aggregate population of nearly 29,000,000 and the 97 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, June 14 to August 22, 1925—Annual rates per 100,000 population 1

DIPHTHERIA CASE RATES

	Ι									
					Week e	nded—				
	June 20	June 27	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22
105 cities	119	* 116	* 93	² 96	2 79	2 78	4 78	87	• 80	17
New England	97	127	117	62	62	62	62	82	92	5:
Middle Atlantic East North Central	166 93	163 284	96 2 87	127 289	273	91 2 68	92 274	83 2 101	78 2 72	7. 2.5
West North Central	133	114	131	93	85	106	100	8 107	1113	10
South Atlantic	51	73	41	55	26	45	10 50	55	73	11 6
East South Central.	6	34	6	23	11	11	11	29	34	ő
West South Central.	74	46	60	42	28	70	46	23	51	6
Mountain	191	105	181	105	124	115	153	11 68	162	7
Pacific	113	107	13 145	125	99	104	67	148	84	10
			MEASI	ES CA	SE RAT	ES				
105 cities	434	2 303	3 228	2 193	² 159	² 105	4 73	. \$ 53	6 48	7 31
New England	634	407	350	283	261	216	186	132	129	97
Middle Atlantic	544	382	258	249	199	128	77	69	57	31
East North Central.	592	1 404	2 321	2 225	2 191	2 119	2 72	2 47	2 37	2 19
West North Central.	87	60	31	35	29	19	29	8 11	• 30	11 3,
South Atlantic	349	278	262	211	148	95	10 71	45	43	11 3
East South Central	114	132	97	120	80	63	29	11	17	9
West South Central. Mountain	19 76	5 95	5 38	0 57	0 29	5 38	0 105	12 20	9 19	
Pacific	84	52 52	13 37	41	64	20	35	29	20	29 12
		SCA	RLET	FEVER	CASE	RATES				
105 cities	165	2 117	³ 96	² 90	³ 61	² 57	4 56	⁶ 53	6 59	⁷ 53
New England	142	107	112	147	80	72	75	102	84	92
Middle Atlantic	145	100	79	81	45	43	37	33	36	23
East North Central	217	2 157	122	2 97	2 67	2 67	2 64	2 52	2 58	2 58
West North Central	328	184	168	143	108	122	124	8 120	• 137	147
South Atlantic East South Central	61	45	59	45 126	47 80	16	10 35	22 63	41 40	11 43
										34
	160 37	91 56	74			29	63			
West South Central.	37 143	56	46	9	23 86	32	31	56	70	
	37				23	32 162 46				51 67 44
West South Central Mountain	37 143	56 210 107	46 105 13 71	9 153 52	23 86	32 162 46	31 86	56 12 39	70 95	67
West South Central Mountain	37 143	56 210 107	46 105 13 71	9 153 52	23 86 61	32 162 46	31 86	56 12 39	70 95	67
West South Central. Mountain	37 143 116	56 210 107 8:	46 105 13 71 MALLI	9 153 52 POX CA	23 86 61 SE RA	32 162 46 TES	31 86 49	56 12 39 64	70 95 87	7 6
West South Central. Mountain	37 143 116	56 210 107 8:	46 105 13 71 MALLE 3 14	9 153 52 POX CA	23 86 61 SE RA	32 162 46 TES	31 86 49	56 12 39 64	70 95 87	7 (
West South Central. Mountain	37 143 116	56 210 107 8:	46 105 13 71 MALLE 3 14	9 153 52 POX CA	23 86 61 SE RA	32 162 46 TES	31 86 49	56 12 39 64	70 95 87	7 (
West South Central. Mountain	37 143 116 36 0 1 45 60	56 210 107 S: 2 25 0 0 0 2 20 37	46 105 13 71 MALLE 3 14	9 153 52 POX CA 2 16 2 0 2 12 2 12 2 1	23 86 61 SE RA	32 162 46 TES	31 86 49 4 10 0 0 24 15	56 12 39 64	70 95 87	7 (
West South Central. Mountain	36 0 1 45 60 30	56 210 107 8: 2 25 0 0 2 20 2 37 18	46 105 13 71 MALLE 3 14 0 1 2 14 17 10	9 153 52 POX CA 2 16 2 0 2 12 21 24	23 86 61 SE RA 2 15 2 1 2 10 17 8	32 162 46 TES 2 10 5 0 28 12 16	4 10 0 0 2 4 15 10 2	56 12 39 64 5 9 0 0 2 6 8 9 2	70 95 87 6 7 0 0 2 3 9 11 2	7 6 2 2 2 6 11 4
West South Central. Mountain	36 0 1 45 60 30 200	56 210 107 8: 2 25 0 0 2 20 37 18 132	46 105 13 71 MALLE 3 14 0 1 2 14 17 10 63	9 153 52 POX CA 2 16 2 0 2 12 21 24 80	23 86 61 215 215 210 17 8 46	32 162 46 TES 2 10 5 0 2 8 12 16 40	31 86 49 4 10 0 0 0 2 4 15 10 2 23	56 12 39 64 0 0 0 2 6 8 9 2 51	67 0 0 23 911 2 23	7 (
New England Mountain	37 143 116 36 0 1 45 60 30 200 19	SS 225 0 0 220 37 18 132 0	46 105 13 71 MALLI 3 14 0 1 2 14 17 10 63 5	9 153 52 POX CA 216 2 0 212 21 24 80 5	23 86 61 SE RA ⁴ 2 15 2 1 2 10 17 8 4 4 6 14	32 162 46 TES 210 5 0 28 12 16 40 5	31 86 49 4 10 0 0 24 15 10 22 23 5	56 12 39 64 64 5 9 0 0 2 6 8 9 2 2 51 14	70 95 87 0 0 0 23 11 22 23 9	7 6 44 7 6 0 0 2 2 6 11 4 4
West South Central. Mountain	36 0 1 45 60 30 200	56 210 107 8: 2 25 0 0 2 20 37 18 132	46 105 13 71 MALLE 3 14 0 1 2 14 17 10 63	9 153 52 POX CA 2 16 2 0 2 12 21 24 80	23 86 61 215 215 210 17 8 46	32 162 46 TES 2 10 5 0 2 8 12 16 40	31 86 49 4 10 0 0 0 2 4 15 10 2 23	56 12 39 64 0 0 0 2 6 8 9 2 51	67 0 0 23 911 2 23	44

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July ¹, 1923.

¹ Cicero, Ill., not included. Report not received at time of going to press.

¹ Cicero, Ill., and Spokane, Wash., not included.

¹ Cicero, Ill., and Tampa, Fla., not included.

¹ Cicero, Ill., Waterloo, Iowa, and Helena, Mont., not included.

¹ Cicero, Ill., and Sioux City, Iowa, not included.

¹ Cicero, Ill., and St. Petersburg, Fla., not included.

¹ Waterloo, Iowa, not included.

¹ Sioux City, Iowa, not included.

¹¹ St. Petersburg, Fla., not included.

¹¹ St. Petersburg, Fla., not included.

¹¹ Helena, Mont., not included.

¹¹ Helena, Mont., not included.

¹¹ Spokane, Wash., not included.

Summary of weekly reports from cities, June 14 to August 28, 1925—Annual rates per 100,000 population—Continued

TYPHOID FEVER CASE RATES

					Week e	nded-				
	June 20	June 27	July 4	July 11	July 18	July 25	Aug. 1	Aug. 8	Aug. 15	Aug. 22
106 cities	22	2 27	* 35	2 35	2 38	2 34	4 41	* 41	6 48	7 57
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	20 14 4 12 49 80 130 38 6	17 18 19 10 71 91 148 0 20	22 15 210 211 69 200 246 10 10 22	25 17 2 14 44 59 177 185 29 17	32 25 12 44 55 223 134 19 32	22 21 18 39 53 177 172 48 29	22 30 2 10 48 10 66 183 178 57 46	27 23 21 43 50 274 130 13 107	40 33 2 19 5 58 91 217 102 105 44	32 45 231 48 11 111 183 134 106
		IN	FLUEN	ZA DE	ATH R	ATES		!	·	<u></u>
105 cities	6	26	24	2 2	2 2	12	41	14 3	22	7 2
New England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	2 4 7 7 6 34 10 0	7 6 86 4 2 17 10 10 4	2 2 2 5 6 6 11 10 0 4	0 2 2 2 0 0 17 10 0	0 2 23 0 4 0 10 0 4	0 3 3 1 4 4 6 0 10 0	0 1 20 0 10 2 0 0 0	5 2 2 3 0 6 6 5 12 0	0 2 33 0 0 6 6 0	0 2 21 0 11 10 10 8
		PN	EUMO	NIA DE	ATH F	RATES				
105 cities	81	2 66	2 58	2 61	2 57	2 50	4 61	14 56	² 63	7 55
New England. Middle Atlantic. East North Central West North Central Bouth Atlantic. East South Central. West South Central. Mountain. Pacific.	62 93 81 33 77 103 92 143 65	60 75 242 50 96 120 76 57 53	45 62 45 42 75 97 61 67 82	45 64 259 39 67 91 61 76 74	50 63 247 55 51 74 76 86 45	52 52 40 42 55 63 66 57 65	55 65 52 42 10 63 74 111 76	37 65 38 53 73 69 71 12 29 78	30 73 51 44 81 63 87 57	40 65 43 31 11 64 80 82 67 53

- Cicero, Ill., and Spokame, Wash., not included.
 Cicero, Ill., and Tampa, Fla., not included.
 Cicero, Ill., and Tampa, Fla., not included.
 Cicero, Ill., waterloo, Iowa, and Helena, Mont., not included.
 Cicero, Ill., and Stoux City, Iowa, not included.
 Cicero, Ill., and St. Petersburg, Fla., not included.
 Cicero, Ill., and St. Petersburg, Fla., not included.
 Sioux City, Iowa, not included.
 Cicero, Ill., and St. Petersburg, Fla., not included.
 Lampa, Fla., not included.
 Lampa, Fla., not included.
 Lampa, Fla., not included.
 Lampa, Fla., not included.

- 18 t. Petersburg, Fla., not included.
 19 Helena, Mont., not included.
 29 Spokane, Wash., not included.
 24 Cicero, Ill., and Helena, Mont., not included.

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

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total	105	97	28, 898, 350	28, 140, 934
New England	12	12	2,098,746	2,098,746
Middle Atlantic	10	10	10, 304, 114	10, 304, 114
East North Central.	17	17	7,032,535	7, 032, 535
West North Central	14	11	2, 515, 330	2, 381, 454
South Atlantic	22	22	2, 566, 901	2, 566, 901
East South Central	7	7	911, 885	911.885
West South Central	8	6	1, 124, 564	1,023,013
Mountain		9	546, 445	546, 445
Pacific.	6	3	1, 797, 830	1, 275, 841
	1			

FOREIGN AND INSULAR

PLAGUE ON VESSEL

Steamship "Arcadia"—At Alexandria, Egypt, and Piræus, Greece.— A case of plague was reported found on the steamship Arcadia at Alexandria, Egypt, July 27, 1925. The Arcadia left Alexandria July 21, arriving at Piræus, Greece, July 24. A case of plague was removed from the vessel on the day of arrival at Piræus, the vessel sailing on the same day on return trip to Alexandria.

Plague at Pirxus.—Later information shows that two cases of plague had occurred on July 18 and 19, 1925, respectively, at Pirxus.

THE FAR EAST

Reports for two weeks ended August 15, 1925.—The following reports for the weeks ended August 8 and August 15, 1925, were transmitted by the far eastern bureau of the health section of the League of Nations, located at Singapore, to the headquarters at Geneva:

WEEK ENDED AUGUST 8, 1925

_	Pla	ıgue	Che	olera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Bombay Madras Rangoon Karachi Negapatam Singapore Port Swettenham Penang Batavia Soerabaya Samarang Belawan Deli Macassar Sandakan (North Borneo) Kuching (Sarawak) Bangkok Saigon and Cholon Hongkong Shanghai Manila Colombo Nagasaki Yokohama Simonoseki Kobe Moji Osaka Keelung (Formosa) Pou-San-Po (Korea) Adelaide Brisbane	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cases 3 28 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 2 8 8 10 00 00 00 00 00 00 00 00 00 00 00 00
Fremantle Melbourne Sydney Suez Port Said Mombasa (Kenya) Massaua (Eritrea) Djibuti Durban (Natal) Cape of Good Hope	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

WEEK ENDED AUGUST 15, 1925

704	Ph	a gue	Ch	olera	Sma	llpox
Port	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta Bombay Madras Rangoon Karachi Negapatam Singapore Port Swettenham Penang Batavia Soerabaya¹ Samarang Belawan Deli Macassar Sandakan¹ (North Borneo) Kuching (Sarawak) Bangkok Saigon and Cholon Hongkong Shanghai Manila	Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cases 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Deaths 6 0 2 1 1 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1	Cases -77 -1 -21 -20 -00 -00 -00 -00 -00 -00 -00 -00 -00	7 12 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
Nagasaki Vokohama. Simonoseki Moji Kobe Osaks. Keelung (Formosa) Fou-San-Po (Korea) Adelaide Brisbane Fremantle Melbourne Sydney Port Said Mombasa (Kenya) Massaua (Eritrea) Djibuti Durban (Natal) Cape of Good Hope.	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000

¹ No plague infection found among rats examined.

CEYLON

Cholera nostras—Colombo—July 19-25, 1925.—During the week ended July 25, 1925, three deaths from cholera nostras were reported at Colombo, Ceylon.

CHINA

Cholera—Shanghai.—Cholera was reported at Shanghai, China, during the week ended August 1, 1925. From that time to August 15, 1925, 82 cases with 39 deaths were reported.

EGYPT

Plague—July 30-August 5, 1925—Summary (comparative).—During the week ended August 5, 1925, one case of plague was reported in Egypt. The case occurred at Port Said. The total number of cases reported from January 1 to August 5, 1925, was 90, the number reported for the corresponding period in the year 1924 being 344.

GREECE

Mortality from malaria—Saloniki—June 30-July 20, 1925.—During the three-week period ended July 20, 1925, 51 deaths from malaria were reported at Saloniki, Greece. Population, census, exclusive of refugees, 175,000. Of these latter, 145,000 were stated to be quartered in the city and 49,000 in concentration camps outside of city.

Plague—Athens and Piræus, August 1-14, 1925.—During the two weeks ended August 14, 1925, 16 cases of plague were reported at Athens and Piræus, Greece. Of these, 9 cases occurred at Athens and 7 cases at Piræus.

LIBERIA

Yellow fever—Monrovia.—Recent information indicated the presence of yellow fever in Monrovia, Liberia. Under date of August 22, 1925, the following cablegram was received from that city: "Yellow fever has not been found outside of Monrovia. There is no epidemic. No cases or deaths in Monrovia now."

MADAGASCAR

Plague—Tamatave, June 1-7, 1925—Tananarive Province, June 16-30, 1925.—Plague has been reported in Tananarive Province, Madagascar, as follows: At Tamatave (seaport), June 1 to 7, 1 fatal case; Province of Tananarive, June 16 to 30, 1925, 16 cases with 15 deaths, of which 7 cases were bubonic in type, 3 pneumonic, and 6 septicemic.

MEXICO

Epidemic smallpox—El Hule and other localities, State of Oaxaca, August 14, 1925.—Under date of August 14, 1925, epidemic smallpox was reported present at El Hule and other localities in the State of Oaxaca, Mexico.

PERSIA

Epidemic relapsing fever—Province of Khorassan, December, 1924–July, 1925.—Recent information shows the presence, in July, 1925, of epidemic relapsing fever occurring in the Province of Khorassan, on the Afghan frontier of Persia. The cases occurred in two localities in the Bakharz district and at a few localities in the neighboring districts of Turbat-i-Shaik, Jam, and Khaf, with an estimated number of 1,000 deaths.

An epidemic disease of undetermined form was stated to have been present in the district of Bakharz, with 242 reported deaths, during December, 1924. The symptoms were fever with headache, pain in the chest, jaundice, hemorrhages from the nose, eyes, and mouth, and, in fatal cases, death within 30 hours from onset.

PERU

Plague—Lima, August, 1925.—Local press notices dated August 14, 1925, show the prevalence of plague at Lima, Peru, with 14 cases reported at the lazaretto August 13. Dead rats were also reported.

Plague at Canete.—Under the same date the occurrence of plague cases was reported at Canete.

Callao.—Previous press reports (July) state that plague was present in Callao.

UNION OF SOUTH AFRICA

Plague—Animals concerned in transmission.¹—A memorandum on plague and its cause and prevention, issued under date of February 1, 1925, by the department of public health of the Union of South Africa, states that the rodents mainly concerned in the continuation and spread of plague are, in towns and villages, the black rat, the brown rat, and the house mouse, and in country districts, the gerbille, multimammate mouse, large-eared mouse, striped mouse, karoo rat, water rat, ground squirrel or bushy-tailed meerkat, spring hare, cape hare, and Zulu hare. The cat, dog, mongoose, and suricat also sometimes contract plague, but are less susceptible than the rodents.

The following examples of spread of infection are typical:

- (a) Mrs. A, a farmer's wife, became infected on a farm where gerbilles, meerkats, and hares had been found dead in the veldt some months before. She developed the septicemic form of the disease, and before she died was kissed by her husband, son, and daughter-in-law. All three contracted plague, developed the pneumonic form of the disease, and died within one week.
- (b) At a farm three members of one household became infected with plague of the pneumonic type from two others who had commenced with bubonic plague and later developed pneumonic symptoms. Lung infection here was doubtless due either to sputum containing plague bacilli being coughed into the faces or onto the hands of the attendants or to direct infection through kissing the patient.

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

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.

Reports Received During Week Ended September 11, 1925 ²
CHOLERA

Place	Date	Cases	Deaths	Remarks
China: ShanghaiIndia	July 26-Aug. 15	82	39	May 3-23, 1925; Cases, 14,592;
Bombay Madras	July 5-18 July 19-Aug. 1	5 4	4 3	deaths, 8,900. Apr. 28-June 27, 1925: Cases, 33,647; deaths, 19,950. (Corrected figures.)
Philippine Islands: Manila	July 20-26	6		

¹ Data from "Health," Vol. III, No. 4, issued by the Australian Department of Health.

² From medical officers of the Public Health Service, American consuls, and other sources.

Reports Received During Week Ended September 11, 1925—Continued PLAGUE

Place	Date	Cases	Deaths	Remarks
British East Africa:				
Uganda— Entebbe	Apr. 1-30	57	49	
Ceylon:	May 1-31	72	69	
Colombo	July 12-25	4	4	July 30-Aug. 5, 1925; Cases, 1,
EgyptPort Said	Aug. 5-6	2		July 30-Aug. 5, 1925: Cases, 1. Jan. 1-Aug. 5, 1925: Cases, 99. Corresponding period, 1924: Cases, 344.
France: Marseitle	Aug. 18	2		
Greece: Athens	Aug. 1-14	16	4	Including Piræus.
Hawaii: 'Honokaa	Aug. 7	1		Occurring in hospital. Aug. 15.
		-		Occurring in hospital. Aug. 15, 1925: Plague-infected rodent reported Aug. 15, 1925, vicinity of Pauulio, Hawaii. May 3-23, 1925: Cases, 3,954; deaths, 3,361. (Corrected figures.) Apr. 26-June 27, 1925: Cases, 10,166: deaths, 8,913.
India Bombay	July 5-18	4	2 7	deaths, 3,361. (Corrected fig-
Madras Presidency	June 28-Aug. 1	20	7	Ures.) Apr. 26-June 27, 1925: Cases, 10,166; deaths, 8,913. (Corrected figures.)
Madagascar: Tamatave	June 1-7		1	
Tananarive Province	June 16-30	16	15	Bubonic, 7 cases; pneumonic, 3; septicemic, 6. Deaths: Bubonic, 7; pneumonic, 2; septicemic, 6.
Peru: Callao	July, 1925			Present. Press reports.
Caflete Lima	Aug., 1925 Aug. 14	14		Do. Press reports.
Siam:		1	•	210001020100
Bangkok Straits Settlements:	June 28-July 11	2	2	
Singapore Tunis:	July 12-18	1	1	·
Tunis				Aug. 12-18, 1925: Plague rodent.
On vessel: Steamship Arcadia	July 24-27	2		At Piræus, Greece, from Alexandria, Egypt.
	SMAL	LPOX	· · · · · · · · · · · · · · · · · · ·	
Brazil:		ĺ		
Rio de Janeiro British East Africa:	July 19-25	11	7	
Mombasa Tanganyika	July 5-18	21		
Do Bulgaria:	June 21-27	47	3	
SofiaCanada:	Aug. 6-12	1		
Alberta— Calgary	Aug. 2-8	1		From Crossfield, Alberta.
China: Foochow	July 12-18			Present.
Manchuria— Dairen	July 13–19	2	1	
Tientsin	July 12-18	ĩ		Reported by British municipality.
IndiaBombay Madras	July 5-18 July 19-Aug. 1	9 5 2	7 222	May 3-23, 1925: Cases, 13,866; 3,322. (Corrected figures.) Apr. 26-June 27, 1925: Cases, 37,107; deaths, 9,152. (Corrected figures.)
Mexico: Mexico City	Aug. 9-15	1		
O Chad	Aug. 14.			Epidemic at El Hule and other
Oaxaca, State	A 10 00			
Oaxaca, State San Luis Potosi Portugal: Oporto	Aug. 16-22 Aug. 9-15	1	1	localities.

Reports Received During Week Ended September 11, 1925-Continued

SMALLPOX-Continued

ate Case	3 De	aths	Remarks
	1	5 1 7	
	5	51	5 5 1 1

TYPHUS FEVER

Tunis:	Ang. 12-18	1	1	
	nug. 12 10:::::	•	•	`

YELLOW FEVER

Liberia: Monrovia	Aug. 7	4	
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Reports Received from June 27 to September 4, 1925 1

CHOLERA

Place	Date	Cases	Deaths	Remarks
Algeria: Algiers	. May 11-20	1		Ton 05 Mor 20 1005 G
ColomboIndia	May 10-16	2	2	Jan. 25-May 30, 1925: Cases, 78; deaths, 58. Apr. 26-June 27, 1925: Cases,
Bombay	. June 28-July 4	2	1 2	33,647; deaths, 19,950. (Corrected figures.)
Calcutta Do	May 3-9 May 17-23 June 14-20	79	49 61 11	
Madras Presidency	July 5-11	9	7	
Do Rangoon Do	_ May 3–June 6	2 22 12	15 8	Feb. 8-14, 1925: Cases, 2; deaths, 2. (Received out of date.)
DoIndo-China: Saigon	June 28-July 18	1	2	2. (2.000.702.020.02.02.02.0.7)
Japan: Yokohama	May 4-June 7 Sept. 2	4 5	3	
Philippine Islands: Albay—	Y 14 90			
TabacoBulacan	do	1 1 3	1 1 2	
Camarines Sur Lagonoy	July 3-9	1 2	1	
Leyte Manila	July 8-14 June 15-28	1 3	1	
Do Mountain Province Siam:	June 29-July 12 June 23-29	6 1	1	June 1-Aug. 8, 1925: Cases, 17.
Bangkok Turkey:	Apr. 29-June 27	9	4	
Constantinople	May 16-22	1		

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

Reports Received from June 27 to September 4, 1925—Continued PLAGUE

Place	Date	Cases	Deaths	Remarks
Brazil:	May 3-June 13	5	4	
British East Africa: Uganda	Feb. 1-28	28 78	28 73	
Entebbe Ceylon: Colombo	May 10-June 30	11	10	
Do China: Foochow	June 28-July 11 May 24-31	5	3	Reported present in epidemic
North Manchuria Ecuador:	May 27	2	ī	form.
Guayaquil	June 1-15	1	1	May 16-June 30, 1925: Rats examined, 30,347; found infected, 95. July 1-15, 1925: Rats taken, 9,926; rats found infected, 16. June 1-July 15, 1925: Cases, 86. Coversponding, period, 1924.
Egypt				June 1-July 15, 1925: Cases, 88, Corresponding period 1924— cases, 328.
Alexandria Port Said Do	June 17-24 June 17-July 8 July 30-Aug. 5	2 6 1	3	Bubonic.
Suez	June 14-27	3	2	Do.
Assiont. Beni-Souef. Charkieh.	June 5. June 10–16. June 6–8.	1 8 1	1 4 1	
Kena Minia Gold Coast	June 17 June 6–17. March-April	1 3 3	1 2 3	
Greece: Athens Piræus	July 1-31	17 2	4	
Hawaii: Honokaa				June 28, 1925: Plague-infected rat trapped at Honokas Plan-
KukuhaeleIndia	July 31			tation. Plague-infected rat. Apr. 26-June 27, 1925: Cases,
Bombay Do. Calcutta	Apr. 26-June 27 June 28-July 4 May 30-June 6 July 5-11	65 5 1	59 4 1	10,166; deaths, 8,913. Corrected figures.
Do Karachi Madras	May 18-June 6 May 10-June 30 May 3-June 27	1 4 15	1 3 8	
Rangoon Do Indo-China:	May 3-June 27 June 28-July 4	113 20	95 18	Feb. 8-14, 1925: Cases, 13; deaths, 13. (Received out of date.)
Cochin-China— Saigon	Apr. 20-June 21	3	8	Including 100 square kilometers of surrounding country.
Iraq: Bagdad Do	May 24-June 6 June 21-27	9 5	<u>1</u>	
Java: Batavia Do	May 6-June 19	32 10	31 19	In Province.
Cheribon Pasoeroean Residency Pekalongan	Apr. 2-June 13 Mar. 7-May 25 Apr. 9-June 13 May 7-27		78 86	Epidemic in several localities.
Soerabaya Soerakarta Residency	May 7-27 May 28 Apr. 2-16	3	3	Epidemic at Kalidgambe.
Tegal	May 24-June 13		36 16	•
Province— Itasy Tananarive Town—	Apr. 1-15 Apr. 1-June 15	1 216	1 185	
Tamatave (port) Tananarive Town Mauritius	Apr. 1-15	2 5	5	April, 1925; One case.
Nigeria Do	December, 1924 January, 1925 March-April	17 10 18	13 6 14	eagrees arms Vary Very
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## Reports Received from June 27 to September 4, 1925-Continued

#### PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Russia: Kalmyk District North Caucasus Urts	May 19-31 June 6-7 May 25-June 3	10 2 2	8 2 2	In laboratory worker and contact. Locality, Province of Bukeevsk.
Siam: Bangkok Straits Settlements:	Apr. 26-June 20	13	11	·
Singapore	May 3-30	9	9	
Turkey:	June 28-July 4	1	1	
Constantinople Union of South Africa: Cape Province—	May 25-31	1		•
Kimberly Do	June 14-20	1	1	In a Malay camp. One plague-infected house mouse.
Orange Free State— Boshof District On vessel:	June 28-July 4	1	1	Native.
Steamship Elstratios Cavoundis.	July 7–11	4	1	At Alexandria, Egypt. Vessel arrived July 7, 1925. Regular route, ports in Syria, Greece, and Port Said. Dead rats reported found on board.

#### SMALLPOX

	1	l	1	
Algeria:	35 47 00		1 -	
Algiers	May 1-June 30	43	2	
Do	July 1-20	28 15		·
Constantine	do	15		-
Brazil: Bahia	June 28-July 25	4		1
Pernambuco	June 25-July 25	40	21	
	Apr. 26-May 30 June 7-27	10 5	3	ļ
Do	July 5-18	li	1	1
Porto Alegre	June 14-20		i	· · · · · · · · · · · · · · · · · · ·
				1
Rio de Janeiro	May 9-June 27	.5	1 10	
Do British East Africa:	June 28-July 18	18	10	
		l	1	
Kenya	A 10 T 00		1	
Mombasa	Apr. 19-June 20	27	13	
Mairobi	May 3-9	3	2	1
Tanganyika Territory		82	24	İ
Uganda	Feb. 1-28	2		
British South Africa:			į	
Northern Rhodesia	Apr. 28-May 4	3		
Southern Rhodesia	June 11-July 1	2		
Canada:		•		
British Columbia—		_	İ	,
Vancouver	June 1-28	7		
_ Do	July 6-Aug. 9	10		
New Brunswick-		_		
Restigouche County	June 1-30	1		
Ontario				May 31-July 25, 1925: Cases, 20;
Galt	June 14-20	2		deaths, 1. Corresponding pe-
Kingston	do	1		riod, 1924: Cases, 24.
Quebec—				
Quebec	July 26-Aug. 1	2	2	
Saskatchewan—				
Regina	May 24-30	3		
China:	}			
Amoy	May 17-June 30		7	
Do	July 12-25			Present.
Antung	May 11-July 5	8		
Do	July 26	1		
Canton	May 10-June 13			Do.
Chungking	May 3-30			Widespread.
Foochow	May 9-June 20			Present.
Hongkong.	Apr. 19-June 13	15	12	•
Manchuria—	- 1	1		
Dairen	Apr. 13-June 28	115	17	
Do	June 28-July 5	1	1	
Harbin	May 13-June 2	2		•

## Reports Received from June 27 to September 4, 1925—Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
China-Continued.				
Nanking	May 9-July 25	.		Present.
Shanghai	May 3-June 6	. 5		
Do Swatow	July 6-25 May 17-July 11	.  1	1	Stated to be endemic.
Tientsin	May 9-June 6	. 3	-	brated to be endemic.
Chosen:		1 -		Ì
Seoul	May 1-June 30	. 2		
Egypt:	36 01 07	١.	1 .	
AlexandriaCairo	May 21-27 Mar. 19-May 13	1 5		
France	.1		'	February-May, 1925; Cases, 77.
Paris	May 21-31	. 1	1	
Germany:		1	1 .	
Baden (state)	July 12-25 July 5-11	. 2		
StuttgartGold Coast	July 0-11		1	January-April, 1925: Cases, 367;
Gold Coast		1	-	deaths, 29.
Great Britain:			1	1 404,25, 201
England and Wales		·	-	May 24-June 27, 1925: Cases, 441.
Birmingham	June 7-13	1		June 28-Aug. 1, 1925: Cases, 353.
Cardiff Do	June 14-20	14		
Newcastle-on-Tyne	May 31-June 27	4		
Do	Aug. 2-8. May 31-June 27 June 28-Aug. 8	8	1	
Greece			-	January-May, 1925: Cases, 46;
Athens	May 1-31 June 24-30	27	. 2	deaths, 8.
Do	June 24-30 July 1-31	14	3 1	
Hungary:	July 1-51	14	1	
Budapest	July 5-18	13	1	
India				Apr. 26-June 27, 1925: Cases, 37,107; deaths, 9,152. Corrected
Bombay	Apr. 26-June 27	156	115	37,107; deaths, 9,152. Corrected
DoCalcutta	June 28-July 4 May 3-9	109	100	figures.
Do	May 17-23	75	61	
Do	May 17-23 May 31-June 20	88	81	
Do	July 5-11	12	8	•
Karachi	May 18-June 27 June 28-July 4	6	1	
Do	May 18-June 27	1 152	66	
Do	June 28-July 18	68	25	•
Rangoon	June 28-July 18 May 3-June 27 June 28-July 4	207	90	
Do	June 28-July 4	2	1	
Indo-China: Cochin-China—			i '	
Saigon	Apr. 20-May 21	13	9	Including 100 square kilometers
Sm2011	inpr. so mady serve			of surrounding country.
Irak				Jan. 11-May 30, 1925: Cases, 136;
Bagdad	Apr. 26-June 20	4	1	deaths, 46.
Italy Jamaica	Dec. 28-May 30	72		Any 98 Tuna 97 1005: Casas 110
Jamaica				Apr. 26-June 27, 1925: Cases, 110. June 28-Aug. 1, 1925: Cases, 159 (reported as alastrim). Reported as alastrim.
			1	159 (reported as alastrim).
Kingston	Apr. 26-June 27	19		Reported as alastrim.
Do	June 28-Aug. 1	22	[	Do.
Japan: Kobe	May 24-June 27	2	i i	
Nagesaki	May 15-21	2		
Do	July 6-19	ī	1	
Taiwan	July 1-10	1		
Tokyo. Yokohama	June 14-20	1		
Java:	May 25-June 12	3		
Batavia	May 2-Tune 26	2	1	
Do	July 4-10	ĩ		•
Brebes	May 2-June 26 July 4-10 Apr. 22-28	ī		
Cheribon	A row 16-99	••••-	i	
Pekalongan	Apr. 2-8	1		Enidemie et Fernadanan
Rembang Residency Soerabaya	Apr. 16-Inne 27	304	41	Epidemic at Kawedanan.
South Bantam	Apr. 16-22	1	71	
Tegal	Mar. 29-May 2	2	1	
Latvia				May-June, 1925: Cases, 4.
Lithuania	Tuno 1-20			February-April, 1925: Cases, 5.
Malta	June 1-30 July 1-31	5		
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#### Reports Received from June 27 to September 4, 1925-Continued

#### SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Mexico:		1		
Durango	do	1	. 11	
Do	June 2-29 June 20-Aug. 17 May 24-June 27		13	1
Guadalajara	June 2-29		liŏ	1
Do	June 20-Aug. 17		ĪŠ	1
Do	May 24-June 27	12	1	Including municipalities in Fed
Do	July 0 <del>-</del> 11			eral district.
Do	July 26-Aug. 8	. 6		Do.
Tampico	June 1–10	.	.  1	1
Ďo	July 1-31	. 4	2	1
Morocco:	1	1	ł	1
Tangier				Present among natives.
Nigeria				December, 1924: Cases, 40
~	1 .	ł	i	deaths, 16.
Do				January-April, 1925: Cases, 1,377
Danie.	i	ļ	i	deaths, 123.
Persia:	35 01 35 01	1		
Teheran	Mar. 21-May 21	·!	29	!
Peru:	Tune 1 20	1		
Arequipa	June 1-30		1	Man 1 Man 0 1005, Carra 00
Poland Portugal:	-			Mar. 1-May 9, 1925: Cases, 23.
Lisbon	Apr 26_Tune 27	36	6	l
Do	Apr. 26-June 27 June 28-Aug. 1	34	14	l
Do Oporto.	June 14-20	34	14	
Do	July 10_95	4		i
Rumania	- July 18-20	T		January-February, 1925: Cases
ramama	-			20.
Russia				
				December, 1924: Cases, 1,00 January-March, 1925: Cases 2,457. Later than previously published reports.
Siam: Bangkok	Apr. 26-June 27	27	19	published reports.
Spain:				
Malaga	May 24-June 20	l	15	'
Do	July 5-Aug. 1		13	
Valencia	May 31-June 27	3	1	
Straits Settlements:	1	_	_	
Singapore Switzerland:	May 17-23	1		
Berne	June 7-13	1		
Lucerne	June 14-20	4		
Syria:	June 14 20	*		
Beirut	Apr. 21-30	1		
Pripoli.				Jan. 3-April, 1925: Cases, 14.
Punis:				Jan. 5-April, 1920. Cases, 14.
Tunis	May 6-June 30	1	46	
Do	July 1-Aug. 4		20	
Furkey:	July 1-Aug. 4		20	*
Constantinople	May 16-22	2		
Union South Africa:		- 1		
Cape Province	May 24-July 11	ļ	1	Outbreaks.
Port Elizabeth	May 24-July 11 Apr. 18-25	8	1	O WOOT COMES,
Transvaal	Apr. 18–25 May 3–June 6	١	- 1	Do.
Jruguay				December, 1924: Cases, 8.
Ďo				February-March, 1925: Cases, 4,
	TYPHUS	FEVER	1	
		<del></del>	1	
Algeria:	1	1	İ	
Algiers	May 11-20	6	2	In vicinity, 12 cases. Isolated.
μο	July 1-20	13	7	
Do Constantine	July 1-10	17		District.
suigaria				November-December, 1924: 1
Sona	May 28-June 3	2	2	case. January-March, 1925: Cases, 36; deaths, 2.
hile:	35 40 7 1 4	- 1		
Valparaiso	May 10-July 18		9	
hina:		- 1	i	
Manchuria	1			
Harbin	May 19-June 2	2	- 1	

#### Reports Received from June 27 to September 4, 1925—Continued

#### . TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks
Egypt:				
Alexandria	May 7-June 3	. 3	1	
Do	July 9-15	. 1		1
Cairo	Mar. 26-May 13 May 14-20	6	4	
Port Said	July 30-Aug. 5		1	i
Esthonia.	July 30-Aug. 5	2		Apr. 1-May 30, 1925: Cases, 6.
Great Britain:				Apr. 1-111ay 50, 1525. Cases, 0.
Scotland—				
Greenock	Aug. 6-18			l
dreece	Nf 1 01		·	January-May, 1925: Cases, 54
Athens	May 1-31 Apr. 1-30		2 2	deaths, 6.
Kalamata Patras	June 23-July 4		2	
	1		-	
raq: Bagdad	July 12-18	1		
reland:	15 10 10 10 10 10 10 10 10 10 10 10 10 10	1 -		1
Cork County	Aug. 25	3		
atvia				April-June, 1925: Cases, 26.
Libau	July 14-29			
ithuania				March-April, 1925: Cases, 118
	1		1	deaths, 5.
Mexico:	<b>_</b>		1	1
Mexico City	May 24-June 6	24		Including municipalities in Fed
_			1	eral district.
Do	June 23-Aug. 1			Do.
San Luis Potosi	June 26-July 4		1	I-muser Mary 1005, Care 000
forocco				January-May, 1925: Cases, 362  Later than previously published reports.
Palestine:	1		i	_
Dagania	July 21-27	1		
Ekron	do	1		
Jaffa District	June 2-8	2		
Maijdal	May 26-June 8	3		
Ramleh	May 19-25	1		
Safad	June 9-15	1		
Do	July 21-27	1		
Tel Aviv	do	1		
ersia: Teheran	Apr. 21-May 21		1	
eru: Arequipa	Apr. 1-June 30		3	
oland	Apr. I vano oci			Mar. 1-Apr. 11, 1925: Cases
ortugal:				1,195; deaths, 74.
Oporto	May 31-June 6			
Do	July 5-11			
tumania:		_		
Constantza	May 1-31	1		D 1004. Care 5 000
tussia				December, 1924: Cases, 5,062 January-March, 1925: Cases, 18,336. Later than previously published reports.
pain:				F
Valencia	June 7-13		1	
unis:				
Tunis.	May 21-June 17	16	8	
Do	July 8-28	9	4	
urkey: Constantinople	Мау 11-31	7	2	
nion of South Africa:			_	•
Cape Province	Apr. 19-July 4	39	5	
Natal	May 3-July 11	14		
Durban	Feb. 1-July 4~.	18		
Orange Free State	Feb. 1-June 27 July 5-11	26	4	Outheate
	101V 5_11			Outbreaks.
Hoopstad				
Hoopstad Transvaal	do	11	2	
Hoopstad		11 7	1	

### Reports Received from June 27 to September 4, 1925-Continued

#### YELLOW FEVER

Place	Date	Cases	Deaths	Remarks
Gold Coast	Apr. 1-30	1 1 1 4	1	