# PUBLIC HEALTH REPORTS

VOL. 38 NOVEMBER 23, 1823

----

No. 47

# FLEAS FOUND ON WILD ANIMALS IN THE BITTERROOT VALLEY, MONT.

By L. H. DUNN, Assistant Entomologist, and R. R. PARKER, Special Expert, United States Public Health Service.

[Spotted Fever Field Laboratory, Hamilton, Montana.]

The Bitterroot Valley is situated in Ravalli and Missoula Counties in the western part of Montana. It is about 65 miles long and 9 miles wide at its broadest part, comprising an area of approximately 511 square miles. It extends nearly north and south, being hemmed in by a chain of foothills of the main Rocky Mountain continental divide on the east, while the Bitterroot Range of mountains borders it on the west and separates it from Idaho. These two ranges gradually curve and nearly surround the valley, approaching each other more closely at the southern end, or head of the valley.

The floor of the valley has an altitude of about 3,500 feet and contains many cultivated fields, orchards, etc. It is traversed throughout its length by the Bitterroot River, which rises at the south end of the valley.

On the east side of the valley the foothills of the Rocky Mountains have a gentle slope, and many cultivated areas may be found at some height above the floor of the valley. On the west side the mountains are more abrupt, and the land on the lower slopes at their base is rough and broken, a considerable amount of it being non-cultivable. A number of canyons extend westward among the hills.

Thickly timbered forest reserve areas extend along the upper slopes of the mountains on each side of the valley, and there is a small scattering growth of coniferous and deciduous trees on the floor of the valley, especially along the river.

Several passes lead through the ranges on either side and at each end of the valley.

The mean annual temperature is about 46° F.; the mean annual rainfall, approximately 11 inches; and the average yearly snowfall, 38 inches.

66791°--23----1

<sup>&</sup>lt;sup>4</sup> Identifications and descriptions of new species by the senior author.

Rocky Mountain spotted fever has been present in this valley for a number of years, and during the investigations that have been carried on in connection with this disease many small rodents and other wild animals were captured or killed. This was especially the case during 1922, when the work was carried on more intensively than formerly and a greater number of animals was secured for examination. Practically all of these animals were obtained on the west side of the valley, in areas varying in altitude from 3,500 to 5,000 feet, and extending from the farm lands along the Bitterroot River to the forest reserve lands located well up in the mountains. While the ectoparasites principally desired from these animals were the spotted fever ticks (Dermacentor venustus Banks), fleas, lice, and other parasites were also collected when the opportunity permitted.

Although the 388 animals from which fleas were taken comprised but a small part of the total number of animals received at this laboratory, 2,275 fleas were secured, representing a variety of species and affording an interesting study on the flea infestation of wild animals in the Bitterroot Valley and on the host relationship. An annotated list of these fleas, with descriptions of the new species, is given below.

SPILOPSYLLUS INEQUALIS Baker.

This flea is the one most abundant on the three varieties of rabbits. cottontails, snowshoes, and jacks, prevalent in the valley. Practically all cottontails secured were heavily infested with this species. The infestations being so much heavier on these rabbits than on the snowshoes and jacks would indicate that the cottontail rabbit is the favorite host of this flea. However, it is quite possible that the habit of the cottontails of living in burrows, which probably affords a favorable place for propagation of the flea, may account for the difference in the number of fleas that infest the three varieties of rabbits, whereas the snowshoe and jack rabbits live in forms under trees, bushes, and tufts of grass which are usually somewhat exposed to climatic conditions and are therefore less favorable than the burrows for flea propagation. There are no striking seasonal changes in the prevalence of this flea. If any difference occurs, it is that they apparently infest the cottontails in greater abundance during the winter months. One cottontail secured December 22 was found to be harboring 129 specimens, and one taken on January 4 was infested with 62. This flea was also taken on covotes, the occurrence on which, however, would be expected, because rabbits form an important food supply for these animals, especially during the winter months. Considerable variations are found in the taxonomic characters of this species when a large series of specimens are examined. The most marked of these variations occur in the number, size, and shape of the ctenidial spines, the number and arrangement of spines on the abdominal tergites and sternites, and the spines on the legs.

#### HOPLOPSYLLUS AFFINIS Baker.

This flea was found in sparse numbers on snowshoe rabbits, 23 specimens being collected from 12 animals. One specimen was found on a cottontail rabbit.

#### ODONTOPSYLLA SPENCERI, new species.

#### FEMALE.

Head.—Broadly rounded. Frontal tubercle small and quite high on the anterior margin of the head. Eye large and pigmented. Upper genal row of nine bristles; the lower row with three long, heavy, dark bristles. Many minute hairs in front of the upper part of the antennal groove and above the eye. The occiput with an oblique row of 6 bristles extending from the antennal groove and nearing the hind margin of the head, the first bristle of this row being very long; above this row a single bristle near the antennal groove. Numerous small hairs along the posterior margin of the antennal groove. The hind margin of head with about 18 bristles, 3 being grouped together at the lower angle on each side. The first antennal joint with numerous small hairs; second joint with a row of 6 bristles which exceed the third joint in length. The rostrum extends to apex of anterior coxe.

Thorax.—The pronotum has one row of about 10 small bristles, a second row of 12 large ones, and a ctenidium of 26 spines on the posterior margin. Mesonotum with bristles in four rows and some irregularly placed; the first two rows each having about 12 medium-sized bristles, the third with 10 long ones, and the fourth with 10 shorter ones. The metanotum with two rows of about 16 medium-sized bristles each and a third row with 10 large ones. Numerous bristles on the pleural plates.

Abdomen.—Abdominal tergites each with one row of 18 large bristles and a second one of 20 smaller ones. The first two tergites with a third row of about 14 small bristles and a few irregularly placed. The third, fourth, fifth, and sixth abdominal sternites each with a single row of from 6 to 8 bristles; the seventh with 12 long bristles.

Modified segments.—The eighth tergite with a number of bristles apically, some short and stout and others longer. Many bristles on tenth tergite. The style about five times as long as it is broad, with a long bristle at tip and several subapically. The substylar flap with several long bristles near the apical margin and a number of shorter ones basally.

Legs.—The fore coxa bears more than 50 bristles, those at the base being small, and about 5 long ones extending from the apical margin. Fore femur with a posterior marginal row of small bristles and about 14 irregularly placed on the outer side. Fore tibia with

seven pairs of heavy spines, the second, fourth, and seventh pairs being long. Hind coxa with many minute teeth in irregular rows on the inside, a number of bristles on the lateral surface anteriorly, and also a marginal row. Hind femur with posterior marginal row of bristles, two or three small hairs on the inner surface, two heavy, curved bristles posteriorly, and two slender, straight ones anteriorly at the apex. The hind tibia with two irregular rows of bristles on the outer surface, seven pairs of spines with a single one between the fourth and fifth pairs and an apical group of three on the posterior margin. The longest apical spine of the hind tibia extends to more than three-fourths the length of the first tarsal segment. The hind tarsal segments all heavily spined on the margins, the longest apical spine of the second segments nearly equals the third and fourth segments in length.

MALE.

Head.—Flattened on top. Six to eight bristles in upper genal row and three or four in the lower.

Modified segments.—Two antepygidial bristles on each side. Tenth tergite bears a number of long bristles. Manubrium long and narrow, with a slightly curved point at tip. The process bluntly rounded with one bristle and several small hairs at its apex. The exopodite twice as long as broad; upper inner border nearly straight and provided with a number of small hairs, lower border extending obliquely upward on the apical half to a slightly upturned, broadly truncated apex and bearing a number of small bristles along the margin. The ninth sternite with several stout bristles on the dorsal surface.

The male of this species is close to the male described as dentatus by Baker, differing from it mainly by having more bristles in the upper genal row and on the dorsal surface of the ninth sternite. This flea was found on cottontail and snowshoe rabbits. This species is named in honor of Surg. R. R. Spencer, officer in charge of this laboratory.

Described from 21 specimens.

Holotype: Male; from a snowshoe rabbit taken in the foothills of the Bitterroot Mountains west of Hamilton, Mont., April 7, 1922. The slide bears the record number 449-7.

Allotype: Female; from a snowshoe rabbit taken in Canyon Creek Canyon in the Bitterroot Mountains west of Hamilton, Mont., November 16, 1922. The slide bears the record number 1081-5.

The above type specimens have been deposited in the collection of the United States Public Health Service at the Hygienic Laboratory, Washington, D. C.

#### MICROPSYLLA, new genus.

This genus is founded on an extremely small male flea found on a field mouse. It is near Neopsylla and Rhadinopsylla, differing from the former mainly by having four pairs of spines on each fifth tarsal segment, and from the latter by the overlapping of some of the genul spines. Genotype: Micropsylla peromyscus, n. sp.

#### MICROPSYLLA PEROMYSCUS, new species.

Head.—Frons somewhat dome-shaped anteriorly with frontal notch causing a vestigial point. Rostrum barely reaches to end of fore coxe. Eye absent. Five genal spines vertically placed, the third one pale and overlapped by the second. A lower genal row of 4 long bristles and an upper one of 4 small ones. Two oblique rows of 5 or 6 bristles each on either side of the occiput. About 14 bristles on hind margin of head, 2 at each lower posterior angle being small.

Thorax.—Pronotum with ctenidium of 16 spines and a row of 10 bristles. Mesonotum with a row of 10 medium sized bristles and one of 8 smaller ones. Metanotum with a posterior row of 12 bristles and an anterior row of 10 small ones. Mesosternite with 3 bristles. Metasternite not divided and bearing 1 bristle.

Abdomen.—Tergites each with one row of 10 strong bristles and a second one of from 6 to 10 smaller ones. The sternites each bear a row of 6 bristles.

Legs.—Fore tibia with apical spine extending beyond apex of second tarsal segments. Hind coxa with a patch of about 17 minute teeth on the inside. Hind femur with 2 slender bristles near the apex. Hind tibia with 6 pairs of spines on posterior border and 1 pair and a group of 3 on the anterior apical margin, the middle spine of the group of 3 being more than twice as long as the other 2. Longest tibial spine as long as the first segment. Apical spine of first segment as long as second segment and apical spine of second as long as the third and fourth segments together. Fifth tarsal segments on all legs with 4 pairs of lateral spines and a pair of lateral apical bristles, these segments on the mid and hind legs also bearing a pair of ventral apical bristles.

Modified segments.—No antepygidial bristle. Several long, slender hairs on pygidium. Tenth tergite with few small bristles posteriorly. Substylar flap with small group of weak bristles apically. Manubrium short, slightly curved and pointed. Process with upper part extending posteriorly and bearing a weak bristle on lower part anterior to insertion of exopodite. Exopodite narrow, not quite reaching to level of upper part of process and convex posteriorly. Ninth sternite pointed at apex and bearing a few small bristles or

ventral and dorsal borders. Eighth sternite with three bristles on each side, the middle one of each being greatly the longest.

Length 1 mm.

Described from a single male specimen, the holotype, taken from a white-footed mouse captured in Lolo Canyon, at the mouth of Bear Creek, three miles west of Woodman, Mont., May 6, 1922. The slide bears the record number 468-6, and is in the collection of the senior author.

#### CTENOPSYLLUS RAVALLIENSIS, new species.

#### FEMALE.

Head.—Occiput nearly flat dorsally. From strongly rounded to the vestigial frontal notch, the lower portion sloping backwards. The antennal groove extends to upper margin of the head. Eye absent, being merely represented by a small, round, thickening of the chitin. Two heavy ctenidial spines are inserted at the posterior border of the gena, below the eye spot. Either side of the frons has a marginal row of 7 bristles and 4 short black spines, the latter occurring near the frontal notch, with 2 of the bristles above them and the other 5 below on the sloping lower portion of the frons. Lower genal row with 2 bristles, upper row with 2, and a single bristle placed above the upper row. Seventeen short bristles and I long one on each side of the occiput anterior to the hind marginal row, the long bristle arising near the hind margin of antennal groove and extending beyond the apex of the occiput. Hind margin of occiput with 8 bristles on each side, a short, heavy, black one being at each lower posterior angle. The mouth parts extend to slightly beyond the middle of the anterior coxa.

Thorax.—Pronotum with ctenidium of 24 spines and an anterior row of about 10 long bristles. The mesonotum bears a posterior row of 10 bristles, 2 irregularly curved rows of 14 bristles each, 2 shorter curved rows of about 10 each, and a transverse row of about 16 very small bristles anteriorly. The metanotum with from 8 to 10 large bristles in a posterior row and about 20 smaller ones irregularly placed anteriorly. Mesosternite with 6 bristles on episternum, 5 being in a row and 1 placed singly, 7 irregularly arranged bristles on the epimerum and 2 large and 1 small one on the stigmal plate. Metasternite with 2 bristles, 1 large and 1 small, on the episternum and 1 long, heavy one on the sternum. There seems to be considerable variation in the number and arrangement of bristles on the pleural plates of specimens of this species.

Abdomen.—Each tergite with two rows of bristles, anterior row on each tergite except the seventh containing about 10 small bristles, the seventh bearing only 2; the posterior rows on the second, third,

and fourth tergite contain 14 large bristles, the fifth and sixth each have 10, and the seventh has about 12. Small teeth on either side of dorsal margin as follows: One on metanotum, 2 on first tergite, 2 on second, 2 on third, 1 on fourth, and 1 on fifth. The middle abdominal sternites each with a row of 8 bristles.

Legs.—Hind coxa with a few bristles on outer lateral surface near the anterior margin apically. Hind femur with a posterior marginal row of about 14 small bristles, a subapical row of 4 large bristles and 2 curved spines, 1 long and 1 short, at apex. Hind tibia with 4 long spines, 2 being set together near the base and 13 short ones on the posterior margin; a row of 9 bristles on the outer lateral margin. Spines on tarsal segments short. The first pair of spines on fifth segment located near the median line, almost between the second pair.

Modified segments.—Four antepygidial bristles on each side, the inner one being less than half the length of the outer three. The number of antepygidial bristles varies in this species, some examples apparently having 4 on each side, others having 4 on one side and 3 on the other and still others having 3 on each side. Numerous small bristles on eighth tergite. A small mass of bristles on tenth tergite. Style short and stout, being less than twice as long as wide, with 1 subapical and 4 apical bristles. Substylar flap small with several stout bristles at apex and lower margin. One long bristle located well below the pygidium.

MALE.

Modified segments. Three antepygidial bristles on either side, the middle one of each set being more than twice the length of either of the outer ones. Two bristles on the lower lateral border of the ninth tergite just below the pygidium. Tenth tergite with about 6 short bristles at apex. Manubrium of medium length, slightly curved upward and pointed at tip. Upper part of process extending posteriorly. Exopodite relatively small, roughly triangular in shape, does not quite reach upper margin of process and has 3 bristles and several small hairs on the posterior border. Ninth sternite curved ventrally and bearing a row of small bristles. Eighth sternite with heavy bristles near apex.

Eleven specimens of this flea were found on two pack rats taken at the southern end of Ravalli County, for which county the flea was named.

Holotype: Male; from a pack rat taken on Tin Cup Creek, in the foothills of the Bitterroot Mountains southwest of Darby, Mont., August 31, 1922. The slide bears the record number 199-6.

Allotype: Female; from a pack rat taken on Spoon Creek in the foothills of the Bitterroot Mountains southwest of Darby, Mont., August 16, 1922. The slide bears the record number 161-6.

The above type specimens are deposited in the collection of the United States Public Health Service at the Hygienic Laboratory, Washington, D. C.

#### CATALLAGIA CHARLOTTENSIS Baker.

Four specimens of this flea were collected, one on a snowshoe rabbit, one on a chipmunk, and two on a forest white-footed mouse.

#### HYSTRICHOPSYLLA DIPPIEI Rothschild.

Specimens of this large flea were found on a chipmunk and a pine squirrel.

NEOPSYLLA INOPINA Rothschild.

This species was taken on ground squirrels, on a woodchuck, and on a snowshoe rabbit.

#### NEOPSYLLA WENMANNI Rothschild.

Seven specimens of this flea were collected from a white-footed mouse; also two from two pine squirrels.

#### NEOPSYLLA HAMILTONI, new species.

#### FEMALE.

Head.—Rounded anteriorly. Frontal notch small. Rostrum half the length of fore coxæ. Eye absent. Gena with 5 long ctenidial spines, the middle 3 longest. Upper genal row of 5 bristles; lower row with 2 long ones, 1 placed on anterior margin of antennal groove and the other midway between the groove and the maxillæ. Occiput with 6 bristles, arranged in two oblique rows, on either side, and a marginal row of 10 bristles.

Thorax.—Pronotum with a ctenidium of 22 spines and a row of 10 bristles. Mesonotum with one row of 8 medium-sized bristles and two rows of very small ones. Metanotum with one row of 8 large bristles and a second one of 10 smaller ones. Mesosternite with 5 bristles. Metasternite with 1 bristle on episternum and 1 on sternum.

Abdomen.—Tergites each with a row of 12 large bristles and a second row of 8 or 10 smaller ones. First and second tergites each bears 3 small, black teeth on either side, the third has 2 and the fourth 1. Each of the sternites bears a single row of 6 or 8 bristles.

Legs.—Fore tibia with spine reaching to middle of third tarsal segment. Mid tibia with spine reaching to middle of second segment. Hind coxa with small teeth on inside. Hind femur with a row of small bristles on posterior margin and two on anterior margin near apex. Hind tibia with five pairs of spines and one single one, the latter proximally. Longest tibial spine about three-fourths as long as the first tarsal segment. First segment of hind legs with a spine

as long as the second segment, the latter with a spine reaching nearly to the middle of the fourth segment. Fifth segment on mid and hind legs with four pairs of lateral spines and a pair of lateral apical bristles.

Modified segments.—Two antepygidial bristles of equal length on either side. Tenth tergite long posteriorly and bearing several bristles. Style long and slender with two apical bristles, one long and the other short. Substylar flap with deep notch on lower margin at base and bearing a basal group of small bristles and several longer ones near the apex. A group of stout bristles on the eighth segment below.

Described from one female specimen, the holotype, taken from a pack rat captured on Spoon Creek, southwest of Darby, Mont., August 16, 1922. The slide bears the record number 161-7, and is in the collection of the senior author.

#### CERATOPHYLLUS ACAMANTIS Rothschild.

The woodchuck is the favorite host of this flea, practically all of which animals that were secured being found heavily infested with this species. Although the infestations are heavy during all months that the woodchucks are active, these fleas are present in greater numbers during March and April, when the animals emerge from their dens after hibernating. At this time between 200 and 300 specimens may be found on many of the animals. This would indicate that the fleas greatly multiply in the dens during the winter months. This species is quite active and will bite man, the writer having received several bites from this species while collecting them from the animals.

#### CERATOPHYLLUS ACASTI Rothschild.

This species is found on the flying squirrel, being fairly numerous on these densely furred animals during all seasons of the year.

#### CERATOPHYLLUS AGILIS Rothschild.

This species was found to be quite common on pack rats taken in various areas throughout the valley. A few specimens were also collected from several other varieties of animals.

### CERATOPHYLLUS BITTERROOTENSIS, new species.

Head.—Flattened above; well rounded in front. Frontal notch very small. Three good sized bristles in lower genal row and two small ones in the upper row, one of these latter being close to the antennal groove and the other on lower margin of head. A number of small hairs along front margin of antennal groove. Eye small, roundly pointed below and well pigmented. Gena acute posteriorly. One medium sized bristle located back of the antennal groove. A

number of slender bristles on hind margin of head and a large one at each lower angle. Antennal groove reaching to upper margin of head. Rostrum extending to about one-third of the fore femora.

Thorax.—Pronotum with a ctenidium of 20 spines and a row of 10 small bristles. Mesonotum and metanotum each with a row of from 6 to 8 small, light-colored bristles and a posterior row of 8 or 10 larger ones. Stigmal plate of mesosternite with 2 long bristles.

Abdomen.—Abdominal tergites each bears one row of about 12 bristles with a small hair between each 2 and a second row of from 4 to 8 small bristles. Sternites each with a row of from 4 to 8 bristles.

Legs.—Hind coxa with row of small bristles along anterior border, about 10 more on lateral surface, and 2 longer ones at the lower part of the notch in posterior margin. Hind femur with about 11 small bristles on the posterior margin with 1 large curved one at the apex; a single row of 7 bristles on the lateral surface and 2 longer ones on the anterior margin, 1 at the base and the other near the apex. Hind tibia with 5 pairs of spines and 3 single ones on posterior margin and 2 pairs on anterior apical margin. Longest spine at apex of tibia reaches about three-fourths of first tarsal segment. None of the hind tarsal spines appreciably longer than the following segment. Mid tibia with an apical spine longer than first and second segments combined.

Modified segments.—One antepygidial bristle on each side. Pygidium small and blunty cone shaped. Tenth tergite with 3 long bristles at apex. Subapical flap with 2 bristles at tip. Manubrium short, pointed, and extending downward. Process with a rounded tip extending posteriorly on upper portion; slightly concave on lateral posterior margin with 2 slender bristles arising from the concavity. Exopodite reaches to level of process; flat on anterior border above the pedicle and convex on posterior border with 3 pointed black spines at margin and 1 bristle and some small hairs above. The ninth sternite bears 2 long bristles and several small hairs. Eighth sternite long and slender with 4 long bristles on the ventral surface near the tip.

Described from two male specimens.

Holotype: Male; from a pack rat captured on Spoon Creek southwest of Darby, Mont., August 16, 1922. The slide bears the record number 161-1, and is held by the senior author.

#### CERATOPHYLLUS CILIATUS Baker.

Eight specimens of this flea were collected from 5 chipmunks and 1 pine squirrel. The largest number found on an animal was 2.

#### CERATOPHYLLUS DIVISUS Baker.

Four specimens of this species were found on 4 pine squirrels.

#### CERATOPHYLLUS EUMOLPI Rothschild.

This species is commonly found on the yellow-bellied chipmunks, these small animals undoubtedly being the favorite hosts. A few specimens were also taken on pine and ground squirrels.

#### CERATOPHYLLUS IDAHOENSIS Baker.

Fleas of this species were found infesting a large percentage of the many ground squirrels examined. They appear to be more numerous in the early spring when the squirrels emerge from their winter hibernation than during the midsummer months, although they are commonly found throughout the season. It was with some hesitation that the writer first classified these fleas as idahoensis. This was owing to the minor differences present between them and the description of this species as given by Baker. However, after examining a series of 377 specimens and carefully studying the variation that occurred, it is believed that they may be safely placed in this species. This variation in minor characters seems to be more marked among specimens of this flea than in any of the other species examined during these observations with the possible exception of This consisted of differences in the spines of the eighth segment, subpygidial spines, teeth or tergites, pronotal spines, bristles in genal rows, prominence of tubercle of frons, and in various other characters.

#### CERATOPHYLLUS LUCIDUS Baker.

This species was found on many pine squirrels and apparently becomes more numerous during the late summer months.

#### CERATOPHYLLUS POEANTIS Rothschild.

Ten specimens of this flea were collected from 3 side-striped ground squirrels.

#### CERATOPHYLLUS TELCHINUM Rothschild.

This species was taken on forest white-footed mice, mountain meadow mice, and a cottontail rabbit. Only 1 specimen was present on each animal with the exception of 1 white-footed mouse, which was found to be host for 8 of these fleas.

#### CERATOPHYLLUS TUBERCULATUS Baker.

Common on ground squirrels together with *C. idahoensis*, but usually not as numerous as the latter species. Minor differences of characters are frequently found occurring in specimens of this flea.

#### CERATOPHYLLUS WAGNERI Baker.

A large percentage of the forest white-footed mice that were examined were found to be harboring this species. Five was the largest number taken from one mouse.

#### CERATOPHYLLUS WICKHAMI Baker.

Practically all the pine squirrels secured were infested with this species, and these animals are apparently the favorite hosts. The largest number taken from one squirrel was 21. Twelve specimens of this flea were also collected from a mountain weasel, and 2 from a yellow-haired porcupine.

#### ANOMIOPSYLLUS NUDATUS Baker.

Eight specimens of this small flea were found on a western horned owl. Although taken from an avian host, this species is included in this list of fleas from mammals, owing to the fact that in all previous records of the occurrence of *nudatus*, small rodents have been the hosts. As the horned owl is predaceous in habits, and as its food consists largely of small rodents, it is a question whether this bird may be considered a normal host of this species of flea or merely a temporary one that had become infested from the small rodents on which it had preyed.

Further work on the fleas which infest the wild animals in this valley will undoubtedly disclose additional new species as well as other species previously described that are not included in the foregoing list.

Specimens of the new species described in this paper were sent to Surg. Carroll Fox, United States Public Health Service, at Washington, D. C., who compared them with the literature and with specimens in the National Museum and in his own collection.

Acknowledgments.—Thanks and appreciation are extended to Surg. R. R. Spencer, officer in charge of this station, for the interest that he has shown in this work and also for his assistance in collecting many of the fleas; and to Surg. Carroll Fox.

#### Host Index.

The following host index illustrates the species and comparative prevalence of the fleas found on the various wild animals in the Bitterroot valley. The numbers following the names denote the number of fleas or animals of the variety indicated; e. g., "cottontail rabbits, Sylvilagus nuttalli, 31," signifies that 31 cottontail rabbits were found infested with fleas of various species; and "Spilopsyllus inequalis, 724," indicates that 724 fleas of the species S. inequalis were collected from the 31 cottontail rabbits, etc.

Cottontail rabbits, Sylvilagus nuttalli, 31: | Spilopsyllus inequalis, 724. Odontopsyllus spenceri, 12. Ceratophyllus idahoensis, 5. Ceratophyllus wagneri, 3. Ceratophyllus acamantis, 2. Ceratophyllus agilis, 2. Ceratophyllus telchinum, 1. Hoplopsyllus affinis, 1.

Snowshoe rabbits, Lepus bairdi, 28: Spilopsyllus inequalis, 68. Hoplopsyllus affinis, 23. Odontopsyllus spenceri, 9. Ceratophyllus agilis, 2. Ceratophyllus idahoensis, 2. Ceratophyllus charlottensis, 1. Ceratophyllus wagneri, 1. Neopsylla inopina, 1.

Jackrabbits, Lepus campestris, 2: Spilopsyllus inequalis, 8.

Ground squirrels, Citellus columbianus, 94:

Ceratophyllus idahoensis, 363. Ceratophyllus tuberculatus, 91. Neopsylla inopina, 15. Ceratophyllus eumolpi, 9. Ceratophyllus poeantis, 4. Spilopsyllus inequalis, 3. Ceratophyllus lucidus, 1.

Pine squirrels, Sciurus hudsonicus richardsoni, 81:

Ceratophyllus wickhami, 247. Ceratophyllus lucidus, 59. Ceratophyllus eumolpi, 9. Ceratophyllus divisus, 4. Ceratophyllus agilis, 2. Neopsylla wenmanni, 2. Ceratophyllus ciliatus, 1. Ceratophyllus idahoensis, 1. Ceratophyllus tuberculatus, 1. Ceratophyllus wagneri, 1. Hystrichopsylla dippiei, 1. Spilopsyllus inequalis, 1.

Flying squirrels, Sciuropterus alpinus, 7: Ceratophyllus acasti, 51.

Side-striped ground squirrels, Callospermophilus lateralis cinerascens, 3:

Ceratophyllus poeantis, 10.

Yellow-bellied chipmunks, Eutamias luteiventris, 44:

Ceratophyllus eumolpi, 82.

Ceratophyllus ciliatus, 7.

Hystrichopsylla dippici, 4.

Catallagia charlottensis, 1.

Ceratophyllus wickhami, 1.

Woodchucks, Marmota flaviventer, 19:

Ceratophyllus acamantis, 294.

Ceratophyllus idahoensis, 4.

Ceratophyllus tuberculatus, 1.

Neopsylla inopina, 1.

Forest white footed mice, Peromyscus maniculatus artemisiae, 13:

Ceratophyllus wagneri, 19.

Ceratophyllus telchinum, 10.

Neopsylla wenmanni, 7.

Catallagia charlottensis, 2.

Micropsylla peromyscus, 1.

Rocky Mountain meadow mouse, Microtus mordax mordax, 1:

Ceratophyllus telchinum, 1.

Pack rats, Neotoma cinerea, 6:

Ceratophyllus agilis, 43.

Ctenopsyllus ravalliensis, 11.

Ceratophyllus bitterrootensis, 2.

Ceratophyllus idahocnsis, 2.

Neopsylla hamiltoni, 1.

Pika, Ochotona princeps, 1:

Ceratophyllus agilis, 4.

Arizona weasel, Putorius arizonensis, 1:

Ceratophyllus wickhami, 12.

Ceratophyllus acasti, 1.

Yellow-haired porcupine, Erethizon epixanthium, 1:

Ceratophyllus wickhami, 2.

Northern coyotes, Canis latrans, 4:

Spilopsyllus inequalis, 11.

Ceratophyllus acamantis, 1.

Ceratophyllus lucidus, 1.

Western horned owl, Bubo virginianus occidentalis, 1:

Anomiopsyllus nudatus, 8.

# AN EPIDEMIOLOGICAL STUDY OF WHOOPING COUGH IN AMSTERDAM.

In the Medical Officer for October 20, 1923, Dr. B. H. Sajet and J. V. Gelderen, statistician, present the results of their epidemiological study of the occurrence of whooping cough in Amsterdam over a period of several years.

In view of the incompleteness of statistical analyses of various epidemiological factors in whooping cough, the study made by the investigators, although based on a comparatively small strength, is a contribution to the knowledge of this disease. The authors show the variation of the attack rate and death rate with respect to age, social condition, size of family, and nationality.

Use was made of the vital statistics records of the city, and additional information was obtained by means of an inquiry among school children, enabling the investigators to examine 13,500 cards which, at the request of the statistical office, had been filled in by parents of the pupils attending the highest and the lowest classes of the primary schools. This information proved unsatisfactory, however, as data upon which to base an estimate of the actual prevalence of the disease. According to the entries made by the parents on the cards, 36.1 per cent of 7,111 boys and 42.3 per cent of 6,479 girls had had whooping cough. It is inferred that many parents either did not remember, in some instances, that one or another of their children had suffered an attack, or had not recognized it, and that this occurred oftener among the poorer classes, among whom the lowest incidence was found, as compared with an attack rate of 55 per cent among the well-to-do. It was stated that the average probably lies nearer 65 per cent.

Age and mortality.—The deaths from whooping cough per 100 deaths in children under 14 years of age from all causes in Amsterdam and the whole of Holland are given as follows:

	1590-1899	1907-1916
Management and the second of t		
Amsterdam Hoiland	3, 81 3, 63	5, 99 3, 92

Of a total of 487 deaths from whooping cough in Amsterdam in the period 1908–1911, the mortality by age groups was as follows:

	Under Lyear.	1 to 4 years.	5 years and over.	Total.
Deaths from whooping cough	206	272	9	487
Per cent of total.	42. 3	55, 9	1. S	100

From an examination of the school medical records, in which the history of children who had had whooping cough at pre-school age was also noted, the following data were found:

<sup>&</sup>lt;sup>-1</sup> The Control and Prevention of Whooping Cough. By B. H. Sajet, M. D., and J. V. Gelderen, statistician.

Age at which the patient contracted the disease.

	Under 1 year.	1 to 2 years.	3 to 5 years.	6 to 9 years.	10 years and over.	Total.
Boys	231	662	1, 282	243	16	2, 43
	231	667	1, 369	328	37	2, 63
PER CENT ATTACKED IN EACH	AGE GE	OUP OF	TOTAL	NUMBEI	R ATTACI	KED.
Boys	9. 5	27. 2	52. 7	9. 9	0.6	100
	8. 9	25. 3	51. 9	12. 4	1.4	100

From these tables it is seen that nearly 90 per cent of the boys affected and 86 per cent of the girls had contracted the disease before reaching the age of 6 years, emphasizing the statement of Pfaundler that "The age of onset should be retarded."

• Sex and mortality.—A comparison of the death rates from whooping cough for Amsterdam and for the whole of Holland shows, characteristically for the disease, a higher rate among girls than among boys, the ratio of the rate among girls to that among boys during the period 1908–1911 being 100 to 88 in Amsterdam and 100 to 85.6 in the whole of Holland. It is stated not to have been determined definitely whether the higher death rate among girls represents a greater liability to attack or a higher case fatality rate, representing greater virulence of the disease in girls; although the information at hand indicated a higher attack rate as being the more important factor.

The rates of the history of present or previous attacks in boys as compared with girls was 85.1 to 100.

Influence of age and social condition upon incidence and mortality.— The following tables are presented to show the influence that social status appears to exert upon the incidence of and mortality from the disease at various age groups of school children.

Percentage of attacks in children of families from which children attended ordinary primary schools, advanced schools first class, or advanced schools second class.

ORDINARY PRIMARY SCHOOLS.

	Under 1 year.	1 to 2 years.	3 to 5 years.	6 to 9 years.	10 years and over.	Total.
BoysGirls	9. 6	29. 8	51. 7	8.3	0. 6	100
	9. 2	27. 0	53. 3	9.3	1. 2	100
ADVANCEI	э всноо	Ls, FIRS	T CLASS.			
Boys.	9. 7	21. 7	56. 1	11. 9	0. 7	100
Girls	8. 1	20. 7	50. 7	19. 3	1. 2	100
ADVANCED	SCHOOL	s, secon	ND CLASS	š.		
Boys.	6. 7	12. 2	44. 1	36. 7	4.3	100
Girls	7. 5	16. 1	39. 8	32. 3		100

The younger children of pre-school age of the ordinary or common primary schools are probably more frequently infected because of practically incessant contact with brothers and sisters and with neighbors' children. After the fifth year, however, less than 10 per cent contracted whooping cough, in sharp contrast with the 35 per cent contracting the disease at school age among the better class of schools.

Similar results are shown in the analysis of mortality among children of families from which children attend the different schools.

Percentage of deaths in children of families from which children attended the various classes of schools.

	Po	ercentage	of death	as occurr	ing at sp	ecified a	ges.	
School.	Under 1 year.	1 year.	2 years.	3 years.	4 years.	5 years and older.	Un- known.	Total.
Ordinary primary school Jewish ordinary primary school Advanced school, first class	39, 1 41, 0 61, 9	33. 2 28. 2 26. 2	16. 1 17. 9 11. 9	6. 7 10. 3	2.6	2.1 2.6	0. 2	100 100 100

These figures seem to show, at least for the group of children studied, that among children attending the ordinary primary school, whooping cough claims victims even after their fifth year, the percentage decreasing slowly but gradually with increase in age. Among children of the better class (advanced school, first class) nearly two-thirds of the deaths are found in infants inder 1 year, and no fatal case occurred after the third year. The information given in these two tables is summarized by the statement that the children of the poorer class contract the disease earlier than do those of the better class, resulting in a higher mortality in the first year of life and a slower decrease in the rate at the older age groups.

Size of family.—The average size of family in the three groups of school children studied were 4.37 in the ordinary primary group, 2.65 for the advanced first class, and 2.58 for the advanced second class.

As a rule, last or later born children in a family run more risk in contracting whooping cough than do first born. The following table gives the percentage incidence of whooping cough by age groups and school (social status) groups according to sequence of birth:

Influence of size of family on morbidity rate, with reference to sequence of birth.

#### ORDINARY PRIMARY SCHOOL.

•		In	cidence	of whoop	ing coug	h per h	ındred in		
Age group.	First born.	Second born.	Third born.	Fourth born.	Fifth born.	Sixth born.	Seventh born.	Eighth and later born.	Group.
Under 3 years	33. 2 56. 1 10. 7	40. 7 50. 9 8. 4	42.3 49.8 7.9	41.5 48.8 9.7	35. 8 54. 6 9. 6	33. 6 52. 1 14. 3	30. 0 58. 9 11. 1	36. 2 50. 1 13. 7	37. 7 52. 6 9. 7
	ADVA	NCED 8	<b>сноо</b>	L, FIRS	T CLAS	s.			
Under 3 years	23. 6 58. 0 18. 4	39. 1 51. 7 9. 2	36. 1 52. 1 11. 8	37. 0 44. 4 18. 6	22. 2 48. 2 29. 6	63. 6 18. 2 18. 2	38. 5 46. 1 15. 4	<sup>1</sup> 30. 4 <sup>1</sup> 54. 2 <sup>1</sup> 15. 4	
4)	ADVAN	iced s	HOOL	, SECON	ID CLA	ss.			
Under 3 years	11. 5 39. 8 48. 7	33. 3 37. 5 29. 2	29. 6 48. 2 22. 2	25. 0 37. 5 37. 5	100. 0	100, 0		121.3 141.5 137.2	

<sup>1</sup> Seventh and later born.

In all three classes of schools the percentage in the first age group (under 3 years) in first-born and only children is lower than that recorded for the second and third child of the family. The favorable condition for first and only children apparently becomes more pronounced as they rise in the social scale.

Effect of difference between age of infective case and susceptible contact.—In 106 infected families there were 353 susceptible children. At the time of the investigation only one child in each family had contracted the disease, leaving 247 contacts, of which number 114, or 46.2 per cent, subsequently developed whooping cough. The following table shows the number of susceptible contacts and the number of resulting infections grouped according to the difference in age between the infective patient and the contact.

	Diffe	rence i	n year and	s betw that of	en th	ie age sceptil	of the de con	infect tact.	ive pa	tient
	1	2	3	4	5	6	7	8	9	10 and over.
Number of susceptible contacts	51 34	74 52	23 12	26 10	7 0	15 4	9	7 0	10	25 0

Nationality and death rate.—It is stated that the death rate among non-Jewish children was at least three and one-half times the rate recorded for Jewish children, comparison having been made in both the poorer and the better quarters of Amsterdam.

Among the suggestions offered for the control and diminution of the disease are direct measures, such as effective compulsory notification, segregation, especially exclusion of patient and contacts from school, "whooping cough homes," and improved home nursing. More drastic measures are recommended in the case of kindergarten schools and day nurseries. As for indirect measures, improved housing conditions, the encouragement of breast feeding of infants, and a better knowledge of hygiene and dietetics in the household are recommended.

# A STUDY OF AFTERCARE IN POLIOMYELITIS INSTITUTED IN NEW YORK CITY.

The office of the New York City Department of He: lth in Queens Borough is attempting a study of the aftercare of poliomyelitis patients covering cases reported between June 1 and September 1, 1923, a satisfactory percentage of the parents of these patients having agreed to accept the advice of orthopedists or orthopedic clinics in regard to the aftercare of their children.

The list comprises 40 cases, of which number 4 patients died in the acute stage of the illness. A few, as will be noted, had no paralysis persisting. It is stated that these may have been questionable cases. The following data are given regarding the remainder of the cases, with special reference to the amount of paralysis persisting at the time of the tabulation and whether or not lumbar puncture was performed to confirm the diagnosis:

Number of reported cases
Tumber of cases which died4
Tumber of cases in which some paralysis now exists
Tumber of cases in which no paralysis exists
Paralysis persisting:
1 upper limb paralyzed 4
2 upper limbs paralyzed 0
1 lower limb paralyzed
2 lower limbs paralyzed
Bilateral paralysis
Unilateral paralysis
Number of cases which have been warned as to proper aftercare
Number of cases which will rely on private physicians to pursue aftercare 5
Number of cases which will rely on hospital or dispensaries for aftercare 15
Number of cases inconsequential enough to be cared for by parents
Number of cases in which lumbar puncture was performed

<sup>1</sup> Weekly Bulletin, Department of Health of the City of New York, Nov. 3, 1923.

### DEATHS DURING WEEK ENDED NOVEMBER 10, 1923.

Summary of information received by telegraph from industrial insurance companies for week ended November 10, 1923, and corresponding week of 1923. (From the Weekly Health Index, November 15, 1923, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Nov. 10, 1923.	Corresponding Week, 1922.
Policies in force	55, 482, 292	51, 180, 358
Number of death claims		7, 523
Death claims per 1,000 policies in force, annual rate	8.3	7. 7

Deaths from all causes in certain large cities of The United States during the week ended November 10, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 15, 1923, issued by the Bureau of the Census, Department of Commerce.)

Total deaths. Total death, beath deaths.			ended 0, 1923.	Annual death rate per		is under year.	Infant mor- tality
Akron, Ohio. 37 9.3 9.5 7 4 4 Albany, N. Y. 36 16.0 13.9 4 6 Aklanta, Ga 69 16.1 13.3 11 8 Baltimore, Md. 2 192 12.9 12.8 16 24 Birmingham, Ala 65 17.3 17 0 Birmingham, Ala 65 17.3 7 0 Buffalo, N. 7 12 11.9 12.8 16 19 Cambridge, Mass. 35 16.4 12.2 6 4 Camden, N. J. 2 29 12.2 12.5 5 5 Cibicago, Ill. 3 11 1 10.6 81 86 Cincinnati, Ohio 111 14.2 15.1 8 12 Cieveland, Ohio 3 15.8 9.3 9.5 26 25 Columbus, Ohio 70 14.0 12.3 5 8 Dallas, Tex 46 13.5 14.6 6 7 Dayton, Ohio 41 12.9 9.0 4 2 Denver, Colo. 47 9.0 20.3 7 12 Des Moines, Iowa 33 12.2 1.0 Des Moines, Iowa 34 2 51 Duluth, Minn 17 8.3 12.7 Fall River, Mass. 4 5 Fall River, Mass. 5 1.0 4 Flint, Mich 9 10.3 11.1 11.3 3 4 Houston, Pex 9 10.3 11.1 11.3 3 4 Houston, Pex 9 13.1 11.1 11.3 3 1.1 11.1 11.3 3 4 Houston, Pex 9 13.1 11.1 11.3 11.1 11.3 11.3 11.1 11.3 11.3 11.1 1	City.			corre- sponding week,	ended Nov. 10,	sponding week,	rate, week ended Nov. 10 1923.
Albany, N. Y.3.  Atlanta, Ga.  69 16.1 13.3 9 4 6 8 14 11 18 18 18 18 11 18 18 18 18 11 18 18	Total	6,662	12. 4	12. 1	802	822	
Atlanfa, Ga Baltimore, Md.	Akron, Ohio.	. 37					8:
Baltimore, Md.   192   12.9   12.8   16   24   Bridgaport, Conn.   29   10.5   7.3   7   0   Buffalo, N.   123   11.9   12.8   16   19   Cambridge, Mass.   35   16.4   12.2   6   4   Camden, N. J.   20   12.2   12.8   5   5   Chicago, Ill.   10.6   81   86   Cinclinati, Obio   111   14.2   15.1   8   12   Cleveland, Obio   118   14.9   9.5   26   25   Columbus, Obio   70   14.0   12.3   5   8   Dallas, Tex   46   13.5   14.6   6   7   Dayton, Obio   41   12.9   9.0   4   2   Denver, Colo   47   9.0   20.3   7   12   Des Moines, Iowa   33   12.2   2   Detroit, Mich   194   10.2   10.3   42   51   Duluth, Minh   17   8.3   2   Erie, Pa   22   10.2   11.9   1   3   Fall River, Mass.   32   13.8   15.1   10   4   Flint, Mich   21   9.3   9.8   4   5   Fort Worth, Tex   22   9.3   9.8   4   5   Fort Worth, Tex   39   13.1   11.3   3   4   Houston, Pex   39   13.1   11.2   15   11   Jackson ville, Fla   37   19.3   12.3   2   5   Kansas City, Nans   35   15.8   7.3   1   0   Lowall, Mass   16   8.1   10   11.8   13.0   9   12   Kansas City, Nans   35   15.8   7.3   1   0   Kansas City, Nans   35   15.8   7.3   1   0   Kansas City, Nans   36   7.2   19.3   5   6   Milwaukee, Wis   82   88   80   5   7   Milwaukee, Wis   82   83   80   11.1   11.8   Brooklyn Borough   405   9.8   11.2   47   Bronx Borough   101   9.8   11.2   47   Bronx Borough   101   9.8   11.0   11   14   Bronk Borough   101   9.8   11.0   11   14   Brief Broncy Borough   101   9.8   11.0   11   14   Brief Broncy Borough   101   9.8   10.0   11   14   Brief Broncy Borough   101   9.8   10.0   11   14   Bronk Borough   101   9.8   10.0   11   14							88
Birmingham, Ala.    65   17.3   11.2   6   4     Bridgeport, Conn.   29   10.5   7.3   7   0     Buffalo, N. Y.   123   11.9   12.8   16   19     Cambridge, Mass.   35   16.4   12.2   6   4     Camden, N. J.   22   12.2   12.8   5   5     Chicago, Ill.   615   11.1   10.6   81   86     Chicago, Ill.   615   11.1   10.6   81   86     Chicago, Ill.   615   11.1   10.6   81   86     Cheveland, Ohio   111   14.2   15.1   8   12     Cleveland, Ohio   158   9.3   9.5   26   25     Columbus, Ohio.   770   14.0   12.3   5   8     Dallas, Tex.   46   13.5   14.6   6   7     Dayton, Ohio   41   12.9   9.0   4   2     Denver, Colo.   47   9.0   20.3   7   12     Des Moines, Iowa   33   12.2   2     Des Moines, Iowa   33   12.2   2     Detroit, Mich.   194   10.2   10.3   422   51     Duluth, Minn   17   8.3   2     Duluth, Minn   17   8.3   2     Erie, Pa   22   10.2   11.9   1   3     Fall River, Mass.   32   13.8   15.1   10   4     Fort Worth, Tex.   21   9.3   9.8   4   5     Fort Worth, Tex.   39   13.1   10   3   43     Fort Worth, Tex.   39   33.1   9.0   3   3     Indianapolis, Ind   94   14.3   14.2   15   11     Jacksonville, Fla   37   19.3   23   2   5     Jersey City, N. J.   70   11.8   13.0   9   12     Kassas City, Kans.   16   8.1     Lowell, Mass.   17     Bronk Borough   133   8.3   9.1   11     Brooklyn Borough   160   9.8   11.2   47     Ges Manhattan Borough   101   9.8   10.0   11     His Brooklyn Borough   101   9.8   10.0   11     His Highman   101   10     Richmond Borough   20   8.2   13.4   0   3	Atlanta, Ga	69					
Bridgeport Conn							47
Buffalo, N. Y							
Cambridge, Mass.       35       16.4       12.2       6       4         Camden, N. J.*       29       12.2       12.8       5       5         Chicago, Ill.*       615       11.1       10.6       81       86         Cincinnati, Obio       111       14.2       15.1       S       12         Ciucinnati, Obio       114       14.2       15.1       S       12         Celveland, Obio       70       14.0       12.3       5       8         Dallas, Tex.       46       13.5       14.6       6       7         Dayton, Ohio       41       12.9       9.0       4       2         Denver, Colo.       47       9.0       20.3       7       12         Des Moines, Iowa       33       12.2       2       2         Detroit, Mich       194       10.2       10.3       42       51         Duluth, Min       17       8.3       2       2       2         Erie, Pa       22       10.2       11.9       1       3         Fall River, Mass.*       32       13.8       15.1       10       4         Filint, Mich       21       9.3							97
Camden, N. J. *         29         12.2         12.8         5           Chicago, Ill. *         615         11.1         10.6         81         86           Chicago, Ill. *         615         11.1         10.6         81         86           Cheveland, Ohio         11.8         12.2         5.8         25           Columbius, Ohio         70         14.0         12.3         5.8         8           Dallas, Tex.         46         13.5         14.6         6.7         7           Dewrer, Colo.         41         12.9         9.0         4         2         2           Derrott, Mich.         194         10.2         10.3         42         51           Duloth, Minn         17         8.3         2         2         2           Erie, Pa         22         11.9         1         3         4         51           Fall River, Mass.*         32         13.8         15.1         10         4         4         51         4         51         4         51         4         51         4         51         4         51         1         4         4         51         1         4         4 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>67</td>							67
Chicago, Ill. 3 Chicago, Ill. 4 Chicago, Ill. 5 Cleveland, Ohio 3 Cleveland, Ohio 3 Cleveland, Ohio 3 Chicago, Ill. 1 Chicago, Ill. 2 Chicago, Ill. 3 Chicago, Ill.	Cambridge, Mass	35					-107
Cincinati, Ohio	Camden, N. J. 3	29					80
Cleveland, Ohio   158   9.3   9.5   26   25   Columbus, Ohio   70   14.0   12.3   5   8   Dallas, Tex   46   13.5   14.6   6   7   Dayton, Ohio   41   12.9   9.0   4   2   Denver, Colo   47   9.0   20.3   7   12   Des Moines, Iowa   33   12.2   2   2   Detroit, Mich   194   10.2   10.3   42   51   Duluth, Minn   17   8.3   1.9   1   3   Tall River, Mass.   32   13.8   15.1   10   4   Thint, Mich   21   9.3   9.8   4   5   Fort Worth, Tex   24   8.7   7.7   2   3   3   4   4   Thint, Mich   21   9.3   9.8   4   5   Fort Worth, Tex   24   8.7   7.7   2   3   3   4   4   Thint, Mich   31   11.1   11.3   3   3   4   4   Thint, Mich   31   11.1   11.3   3   3   4   4   Thint, Mich   31   11.1   11.3   3   3   4   Thint, Mich   31   31   31   31   4   Thint, Mich   31   31   31   31   31   4   Thint, Mich   31   31   31   31   31   31   31   3							73
Columbits: Ohio.         70         14.0         12.3         5         8           Dallas, Tex.         46         13.5         14.6         6         7           Dayton. Ohio.         41         12.9         9.0         4         2           Denvor. Colo.         47         9.0         20.3         7         12           Des Moines, Iowa         33         12.2         2           Detroit, Mich.         194         10.2         10.3         42         51           Duluth, Minn         17         8.3         2         1         2         1           Erie, Pa         22         10.2         11.9         1         3         4         51           Fall River, Mass.*         32         13.8         15.1         10         4         4         51         1         4         51         1         4         4         51         1         4         4         51         1         1         3         4         4         5         7         7         2         3         3         1         4         4         5         7         7         2         3         3         1         1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>53</td>							53
Dallas, Tex       46       13.5       14.6       6       7         Dayton, Ohio       41       12.9       9.0       4       2         Denver, Colo       47       9.0       20.3       7       12         Des Moines, Iowa       33       12.2       2         Detroit, Mich       194       10.2       10.3       42       51         Duluth, Minn       17       8.3       2       2       11.9       1       3         Fall River, Mass.³       32       13.8       15.1       10       4       4       4       11.9       1       3       1       4       4       51       1       4       4       51       1       4       4       51       1       4       4       2       1       1       3       3       1       1       3       3       2       1       1       3       3       1       4			9.3		26		71
Dayton, Ohio					5	8	52
Deinver, Colo.			13.5		6		
Des Moines, fowa	Dayton, Ohio	41	12.9	9.0		2	66
Detroit, Mich	Denver, Colo	47	9.0	20.3		12	
Duluth, Minn         17         8.3         2           Erie, Pa         22         10.2         11.9         1         3           Fall River, Mass.3         32         13.8         15.1         10         4           Flint, Mich         21         9.3         9.8         4         5           Fort Worth, Tex         24         8.7         7.7         2         3           Grand Rapids, Mich         31         11.1         11.3         3         4           Hotiston, Tex         39         13.1         9.0         3         3         1           Indianapolis, Ind         94         14.3         11.2         15         11         1         Jacksonville, Fla         37         19.3         12.3         2         5         1         12         15         11         Jacksonville, Fla         37         19.3         12.3         2         5         12         11         Jacksonville, Fla         37         19.3         12.3         2         5         12         12         Kansas City, Kans         2         5         12         12         13         10         9         12         12         Kansas City, Kans         2	Des Moines, Iowa	33	12.2				
Erie, På Fall River, Mass. 3  22 10.2 11.9 1  34 Fall River, Mass. 3  32 13.8 15.1 10 4  Filint, Mich 21 9.3 9.8 4 5  Fort Worth, Tex 24 8.7 7.7 2 3  Grand Rapids, Mich 31 11.1 11.3 3 4  Houston, Tex 39 13.1 9.0 3 3  Indianapolis, Ind 94 14.3 11.2 15 11  Jacksonville, Fla 37 19.3 12.3 2 5  Jersey City, N., 1 70 11.8 13.0 9 12  Kansas City, Kans 35 15.8 7.3 1 0  Los Angeles, Calif 27 18.5 13.7 23 8  Louisville, Ky 7, 1 15.0 13.0 9 9  Lowell, Mass 29 13.1 14.1 5 4  Lynn, Mass 16 8.1 29  Lowell, Mass 16 8.1 20  Lynn, Mass 25 10.0 9.8 3 5 6  Milwaukee Wis 82 8.8 8.0 5 7  Milwaukee Wis 82 8.8 8.0 5 7  Minneapolis, Minn 90 11.5 10.8 8 12  Nashville, Tenn 27 11.6 18.2 4 4  New Bedford, Mass 25 10.0 9.8 3 6  New Haven, Coun 47 14.2 12.3 6 7  New Orleans, La 134 17.3 13.7 24 12  New Orleans, La 134 17.3 13.7 24 12  New Orleans, La 134 17.3 13.7 24 12  Brooklyn Borough 405 9.8 11.2 47 69  Manhaltan Borough 561 29 13.7 70 67  Queens Borough 101 9.8 10.0 11 14  Richmond Borough 20 8.2 13.4 0 3	Detroit, Mich	194	10. 2	10.3	42	51	84
Fall River, Mass. 3			8.3		2		46
Fall River, Mass 3       32       13.8       15.1       10       4         Flint, Mich       21       9.3       9.8       4       5         Fort Worth, Tex       24       8.7       7.7       2       3         Grand Rapids, Mich       31       11.1       11.3       3       4         Houston, Tex       39       13.1       10.0       3       3         Indianapolis, Ind       94       14.3       11.2       15       11         Jacksonville, Fla       37       19.3       12.3       2       5         Jersey City, N.J.       70       11.8       13.0       9       12         Kansas City, Kans       35       15.8       7.3       1       0         Los Angeles, Calif       237       18.5       13.7       23       8         Louisville, Ky       74       15.0       13.0       9       9       9         Lowell, Mass       29       13.1       14.1       5       4         Lynn, Mass       16       8.1       2       2         Memphis, Tenn       56       17.2       19.3       5       6         Milwaukee, Wis       8	Erie, Pa	22	10. 2	11.9	1	3	20
Flint, Mich	Fall River, Mass.3	32	13.8	15. 1	10		142
Fort Worth, Tex.	Flint, Mich	21	9.3	9.8		5	79
Grand Rapids, Mich	Fort Worth, Tex	24	8.7	7.7			
Houston, Tex. 39 13.1 9.0 3 3 1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Grand Rapids, Mich	31		11.3			47
Indianapolis, Ind							
Jacksonville, Fla         37         19.3         12.3         2         5           Jersey City, N. J.         70         11.8         13.0         9         12           Kansas City, Kans         35         15.8         7.3         1         0           Los Angeles, Calif         237         18.5         13.7         23         8           Louisville, Ky         74         15.0         13.0         9         9           Lowell, Mass         29         13.1         14.1         5         4           Lynn, Mass         16         8.1         2         1           Memphis, Tenn         56         17.2         19.3         5         6           Milwaukee         82         8.8         8.0         5         7           Minneapolis, Minn         90         11.5         10.8         8         12           Nashville, Tenn <sup>2</sup> 27         11.6         18.2         4         4           New Bedford, Mass         25         10.0         9.8         3         6           New Haven, Conn         47         14.2         12.3         6         7           New Orleans, La         134	Indianapolis, Ind						115
Kansas City, Kans       35       15.8       7.3       1       0         Loa Angeles, Calif       237       18.5       13.7       23       8         Louisville, Ky       74       15.0       13.0       9       9         Lowell, Mass       29       13.1       14.1       5       4         Lynn, Mass       16       8.1       2       2         Memphis, Tenn       56       17.2       19.3       5       6         Milwaukee Wis       82       8.8       8.0       5       7         Minneapolis, Minn       90       11.5       10.8       8       12         Nashville, Tenn³       27       11.6       18.2       4       4         New Bedford, Mass       25       10.0       9.8       3       6         New Haven, Coun       47       14.2       12.3       6       7         New Orleans, La       134       17.3       13.7       24       12         New York, N. Y       1,220       10.7       11.8       139       171         Brooklyn Borough       133       8.3       9.1       11       18         Brooklyn Borough       3							
Kansas City, Kans       35       15.8       7.3       1       0         Loa Angeles, Calif       237       18.5       13.7       23       8         Louisville, Ky       74       15.0       13.0       9       9         Lowell, Mass       29       13.1       14.1       5       4         Lynn, Mass       16       8.1       2       2         Memphis, Tenn       56       17.2       19.3       5       6         Milwaukee Wis       82       8.8       8.0       5       7         Minneapolis, Minn       90       11.5       10.8       8       12         Nashville, Tenn³       27       11.6       18.2       4       4         New Bedford, Mass       25       10.0       9.8       3       6         New Haven, Coun       47       14.2       12.3       6       7         New Orleans, La       134       17.3       13.7       24       12         New York, N. Y       1,220       10.7       11.8       139       171         Brooklyn Borough       133       8.3       9.1       11       18         Brooklyn Borough       3	Jersey City, N. J	70					60
Los Angeles Calif   237   18.5   13.7   23   8							2
Louisville, Ky							86
Lowell Mass   29   13.1   14.1   5   4   1   2   2							97
Lynn, Mass     16     8.1     2       Memphis, Tenn     56     17.2     19.3     5     6       Milwaukee Wis     82     8.8     8.0     5     7       Minneapolis, Minn     90     11.5     10.8     8     12       Nashville. Tenn²     27     11.6     18.2     4     4       New Bedford, Mass     25     10.0     9.8     3     6       New Haven, Coun     47     14.2     12.3     6     7       New Orleans, La     134     17.3     13.7     24     12       New York, N. Y     1,220     10.7     11.8     139     171       Brooklyn Borough     133     8.3     9.1     11     18       Brooklyn Borough     405     9.8     11.2     47     69       Manhattan Borough     561     12.9     13.7     70     67       Queens Borough     101     9.8     10.0     11     14       Richmond Borough     20     8.2     13.4     0     3							87
Memphis, Tenn         56         17.2         19.3         5         6           Milwaukee. Wis         82         8.8         8.0         5         7           Minneapolis, Minn         90         11.5         10.8         8         12           Nashville. Tenn³         27         11.6         18.2         4         4           New Bedford, Mass         25         10.0         9.8         3         6           New Haven, Coun         47         14.2         12.3         6         7           New Orleans, La         134         17.3         13.7         24         12           New York, N. Y         1,220         10.7         11.8         139         171           Brook Borough         133         8.3         9.1         11         18           Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3						- 1	53
Milwaukee. Wis.         82         8.8         8.0         5         7           Minneapolis. Minn.         90         11.5         10.8         8         12           Nashville. Tenn³         27         11.6         18.2         4         4           New Bedford, Mass.         25         10.0         9.8         3         6           New Haven, Conn.         47         14.2         12.3         6         7           New Orleans, La.         134         17.3         13.7         24         12           New York, N. Y.         1,220         10.7         11.8         139         171           Bronx Borough         133         8.3         9.1         11         18           Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3				19.3		6	
Minneapolis, Minn         90         11.5         10.8         8         12           Nashville, Tenn³         27         11.6         18.2         4         4           New Bedford, Mass         25         10.0         9.8         3         6           New Haven, Conn         47         14.2         12.3         6         7           New Orleans, La         134         17.3         13.7         24         12           New York, N. Y         1,220         10.7         11.8         139         171           Brook Borough         133         8.3         9.1         11         18           Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3							25
Nashville. Tenna     27     11.6     18.2     4       New Bedford, Mass     25     10.0     9.8     3     6       New Haven, Conn     47     14.2     12.3     6     7       New Orleans, La     134     17.3     13.7     24     12       New York, N. Y     1,220     10.7     11.8     139     171       Bronx Borough     133     8.3     9.1     11     18       Brooklyn Borough     405     9.8     11.2     47     69       Manhattan Borough     561     12.9     13.7     70     67       Queens Borough     101     9.8     10.0     11     14       Richmond Borough     20     8.2     13.4     0     3							43
New Bedford, Mass.         25         10.0         9.8         3         6           New Haven, Conn.         47         14.2         12.3         6         7           New Orleans, La.         134         17.3         13.7         24         12           New York, N. Y.         1,220         10.7         11.8         139         171           Bronx Borough         133         8.3         9.1         11         18           Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3							Tr.)
New Haven, Coun     47     14.2     12.3     6     7       New Orleans, La     134     17.3     13.7     24     12       New York, N. Y     1,220     10.7     11.8     139     171       Bronk Borough     133     8.3     9.1     11     18       Brooklyn Borough     405     9.8     11.2     47     69       Manhattan Borough     561     12.9     13.7     70     67       Queens Borough     101     9.8     10.0     11     14       Richmond Borough     20     8.2     13.4     0     3							47
New Orleans, La.     134     17.3     13.7     24     12       New York, N. Y     1,220     10.7     11.8     139     171       Bronx Borough     133     8.3     9.1     11     18       Brooklyn Borough     405     9.8     11.2     47     69       Manhattan Borough     561     12.9     13.7     70     67       Queens Borough     101     9.8     10.0     11     14       Richmond Borough     20     8.2     13.4     0     3							78
New York, N. Y.     1,220     10.7     11.8     139     171       Bronx Borough     133     8.3     9.1     11     18       Brooklyn Borough     405     9.8     11.2     47     69       Manhattan Borough     561     12.9     13.7     70     67       Queens Borough     101     9.8     10.0     11     14       Richmond Borough     20     8.2     13.4     0     3	New Orleans, La						
Bronx Borough         133         8.3         9.1         11         18           Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3	New York N Y						56
Brooklyn Borough         405         9.8         11.2         47         69           Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3		133					39
Manhattan Borough         561         12.9         13.7         70         67           Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3							59 50
Queens Borough         101         9.8         10.0         11         14           Richmond Borough         20         8.2         13.4         0         3	Manhattan Rorough						
Richmond Borough							68
							59
							()
Norfolk, Va. 30 9.8 10.4 4 2	Vorfally Vo						84 71

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 1922. Cities left blank are not in the registration area for births.
 Deaths for week ended Friday, Nov. 9, 1923.

Deaths from all causes in certain large cities of the United States during the week ended November 10, 1923, infant mortality, annual death rate, and comparison with corresponding week of 1922. (From the Weekly Health Index, November 15, 1923, issued by the Bureau of the Census, Department of Commerce)—Continued.

•		ended 0, 1923.	Annual death rate per		hs under year.	Infant mor- tality
City.	Total deaths.	Death rate.	1,000, corre- sponding week, 1922.	Week ended Nov. 10, 1923.	Corresponding Week, 1922.	rate, Week ended Nov. 10, 1923.
Oakland, Calif Omaha, Nebr Paterson, N. J. Philadelphia, Pa. Pittsburgh, Pa. Portland, Oreg. Providence, R. I. Richmond, Va. Rochester, N. Y. St. Louis, Mo. St. Paul, Minn. Salt Lake City, Utah 1. San Antonio, Tex. San Francisco, Calif. Seattle, Wash. Spokane, Wash. Spokane, Wash. Springfield, Mass. Syracuse, N. Y. Toledo, Ohio. Trenton, N. J. Utica, N. Y. Washington, D. C. Wilmington, Del. Worcester, Mass. Vonkers, N. Y.	195 65 64 48 60 212	12. 2 13. 5 13. 1 13. 7 16. 6 12. 4 13. 8 9. 8 13. 1 13. 2 11. 0 14. 5 14. 5 14. 5 15. 2 16. 6 16. 2 16. 6 17. 16. 6 18. 9 18.	12. 1 13. 0 8. 7 14. 8 10. 5 14. 7 12. 9 11. 5 12. 3 10. 4 12. 2 13. 8 12. 5 8. 8 10. 5 14. 9 12. 7 9. 2 24. 2 24. 2	5 4 4 6 6 6 35 5 5 9 8 8 8 10 2 2 5 3 3 14 6 4 7 1 7 2 2 5 14 2 8	77 33 68 18 33 100 3 8 21 6 7 7 8 8 3 3 8 7 7	644 433 644 865 1222 511 733 98 633 

<sup>&</sup>lt;sup>1</sup> Deaths for week ended Friday, Nov. 9, 1923.

### PREVALENCE OF DISEASE.

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

### UNITED STATES.

#### CURRENT STATE SUMMARIES.

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 November 17, 1923.

		ases.	CALIFORNIA—continued. Cas	
			•	283
	· · · · · · · · · · · · · · · · · · ·		Influenza	27
			Leprosy-Los Angeles County.	1
			Lethargic encephalitis—Los Angeles	2
Measles,		. 131	Measles.	238
Pellagra		. i	Poliomyelitis:	
Pneumonia		. 70	Long Beach	2
Scarlet fever		. 19	Los Angeles	1
Smallpox		. 2	Monrovia	1
Tuberculosis		. 28		. 1
Typhoid fever		. 14	Sau Joaquin	1
			Selma	1
			Visalia	1
			Los Augeles County	1
	ARIZONA.		Tulare County	1
	• • • • • • • • • • • • • • • • • • • •		Scarlet fever	174
			Smallpox:	
Measles	· · · · · · · · · · · · · · · · · · ·	, 6	Los Angeles	43
			Los Angeles County	40
			Scattering	2
Scarlet fever		. 6	Typhoid fever	16
Tuberculosis	• • • • • • • • • • • • • • • • • • • •	41	Typhus fever—Los Angeles	2
Tuberculosis		41	. "	2
	ARKANSAS,		COLORADO.	2
Chicken pox	ARKANSAS,	3	. "	2
Chicken pox Diphtheria	ARKANSAS,	3 33	COLORADO.	2
Chicken pox Diphtheria Influenza	ARKANSAS,	3 33 70	COLORADO. (Exclusive of Denver.) Chicken pox	
Chicken pox Diphtheria Influenza Malaria	ARKANSAS,	3 33 70 51	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria	2
Chicken pox Diphtheria Influenza Malaria Measles	ARKANSAS,	3 33 70 51 29	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles	2 25
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever	ARKANSAS,	3 33 70 51 29	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps	2 25 10
Chicken pox	ARKANSAS,	3 33 70 51 29 1	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps Paratyphoid fever	2 25 10 26 1
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever	ARKANSAS,	3 33 70 51 29 1 7	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps Paratyphoid fever. Pneumonia.	2 25 10 26
Chicken pox Diphtheria Influenza Malaria Measles. Paratyphoid fever Pellagra Scarlet fever Smallpox	ARKANSAS,	3 33 70 51 29 1 7 20 3	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps Paratyphoid fever Pheumonia Scarlet fever	2 25 10 26 1
Chicken pox Diphtheria Influenza Malaria Measles. Paratyphoid fever. Pellagra. Scarlet fever. Smallpox. Trachoma.	ARKANSAS,	3 33 70 51 29 1 7 20 3	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps Paratyphoid fever Pneumonia Scarlet fever Tuberculosis	2 25 10 26 1 4 15 47
Chicken pox	ARKANSAS,	3 33 70 51 29 1 7 20 3 1	COLORADO. (Exclusive of Denver.) Chicken pox. Diphtheria Measles. Mumps. Paratyphoid fever. Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever.	2 25 10 26 1 4 15 47
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever	ARKANSAS,	3 33 70 51 29 1 7 20 3 1 12 22	COLORADO. (Exclusive of Denver.) Chicken pox. Diphtheria Measles. Mumps. Paratyphoid fever. Pneumonia. Scarlet fever. Tuberculosis Typhoid fever Vincent's angina	2 25 10 26 1 4 15 47
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever	ARKANSAS,	3 33 70 51 29 1 7 20 3 1 12 22	COLORADO. (Exclusive of Denver.) Chicken pox. Diphtheria Measles. Mumps. Paratyphoid fever. Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever.	2 25 10 26 1 4 15 47
Chicken pox Diphtheria Influenza Malaria Measles. Paratyphoid fever. Pellagra Scarlet fever. Smallpox Trachoma Tuberculosis. Typhoid fever. Whooping cough	ARKANSAS,	3 33 70 51 29 1 7 20 3 1 12 22	COLORADO. (Exclusive of Denver.) Chicken pox. Diphtheria Measles. Mumps. Paratyphoid fever. Pneumonia. Scarlet fever. Tuberculosis Typhoid fever Vincent's angina	2 25 10 26 1 4 15 47
Chicken pox Diphtheria Influenza Malaria Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough	ARKANSAS,	3 33 70 51 29 1 7 20 3 1 12 22	COLORADO. (Exclusive of Denver.) Chicken pox Diphtheria Measles Mumps Paratyphoid fever. Pneumonia Scarlet fever Tuberculosis Typhoid fever Vincent's angina CONNECTICUT.	2 25 10 26 1 4 15 47 4 1
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough Anthrax—Colusa Cerebrospinal menir	ARKANSAS,  CALIFORNIA.  Igitis:	3 33 70 51 29 1 7 20 3 1 12 22 16	COLORADO.  (Exclusive of Denver.)  Chicken pox  Diphtheria  Measles  Mumps  Paratyphoid fever.  Pneumonia  Scarlet fever  Tuberculosis  Typhoid fever  Vincent's angina  CONNECTICUT.  Cerebrospinal meningitis  Chicken pox	2 25 10 26 1 4 15 47 4 1
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough Anthrax—Colusa Cerebrospinal menir Los Angeles	ARKANSAS,  CALIFORNIA.  Igilis:	3 33 70 51 29 1 7 20 3 1 12 22 16	COLORADO. (Exclusive of Denver.) Chicken pox. Diphtheria Measles. Mumps. Paratyphoid fever Pneumonia. Scarlet fever. Tuberculosis. Typhoid fever Vincent's angina.  CONNECTICUT. Cerebrospinal meningitis. Chicken pox. Diphtheria.	2 25 10 26 1 4 15 47 4 1
Chicken pox Diphtheria Influenza Malaria Measles Paratyphoid fever Pellagra Scarlet fever Smallpox Trachoma Tuberculosis Typhoid fever Whooping cough Anthrax—Colusa Cerebrospinal menir Los Angeles	ARKANSAS,	3 33 70 51 29 1 7 20 3 1 12 22 16	COLORADO.  (Exclusive of Denver.)  Chicken pox  Diphtheria  Measles  Mumps  Paratyphoid fever.  Pneumonia  Scarlet fever  Tuberculosis  Typhoid fever  Vincent's angina  CONNECTICUT.  Cerebrospinal meningitis  Chicken pox	2 25 10 26 1 4 15 47 4 1 1 28 63 5

CONTROLLE	n		
	Cases.		8365
Mumps			
Pneumonia			
Poliomyelitis			. 1
Scarlet fever	76	Macon County	. 1
Septic sore throat		Scattering.	. 113
Smallpox	1	Smallpox	
Trachoma.	1	Tuberculosis	100
Tuberculosis (all forms)		Typhoid fever:	. 130
* *			
Typhoid fever		Cook County	
Whooping cough	. 51	Scattering	. 22
DELAWARE.		Whooping cough	. 92
		INDIANA.	
Chicken pox		INDIANA.	
Diphtheria		Cerebrospinal meningitis—Martin County	. 1
Influenza		Diphtheria	917
Malaria	. 1	Influenza.	. 411
Measles	. 8	Measles	• • •
Pneumonia	. 2	Description	. 148
Scarlet fever:	-	Pneumonia.	. 11
Wilmington	. 8	Searlet fever.	. 118
Scattering.		Smallpox	. 42
		Tuberculosis	. 76
Tuberculosis		Typhoid fever	. 5
Typhoid fever			. •
Whooping cough	. 4	IOWA.	
FLORIDA.		Diphtheria	62
		Scarlet fever.	57
Diphtheria		Smallpox	91
Influenza	. 4	Typhoid fever	- 41
Malaria	. 21		. 2
Pneumonia	. 7	KANSAS.	
Scarlet fever		1	
Typhoid fever	. 4	Cerebrospinal meningitis	. 1
a j paola sovoi i i i i i i i i i i i i i i i i i i		Chicken pox	68
Georgia.		Diphtheria	94
Chicken pox	. 10	German measles.	1
		Lethargic encephalitis	ī
Conjunctivitis (infectious)		Measles.	98
Diphtheria			
Hookworm disease		Mumps.	
Influenza		Pneumonia.	19
Malaria	. 13-	Poliomyelitis	3
Measles	. 100	Scarlet fever	88
Mumps	. 5	Smallpox	26
Pneumonia		Tetanus	1
Scarlet fever.		Tuberculosis	25
Septic sore throat		Typhoid fever	14
Smallnor	44	Whooping cough	74
Smallpox	. 11		12
Tetanus		LOUISIANA.	
Tuberculosis (pulmonary)			
Typhoid fever	. 5	Cerebrospinal meningitis	1
Typhus fever	. 3	Diphtheria	43
Whooping cough	3	Influenza	6
*********		Measles.	81
ILLINOIS.		Pneumonia	26
Cerebrospinal meningitis—Cook County	1	Scarlet fever	16
Diphtheria:	-	Smallpox	2
Cook County	104		
		Tuberculosis	21
Kane County		Typhoid fever	18
Lake County	9	Whooping cough	6
Madison County	15	30	
Scattering	98	MAINE.	
Influenza	18	Chicken pox	66
Lethargic encephalitis—Cook County	1	Diphtheria	5
Measles		German measles.	7
Pneumonia		Measles	25
Poliomyelitis:			28
Cook County	.	Mumps	
Konkokoo County	1	Pneumonia	7
Kankakee County	1	Scarlet fever.	20

MAINE—continued.	MISSOURI.
Tuberculosis	
	10
Whooping cough	
MARYLAND. <sup>1</sup> Chicken pox	Influenza
Diphtheria	100
Dysontery	O-141-1
Influenza. 31	
Leprosy	To 11 1141
Measles25	Scarlet fever. 183
Mumps 7	Septic sore throat
Ophthalmia neonatorum 1	Smallpox. 12
Pneumonia (all forms)	Tetanus 1
Poliomyelitis 1	Trachoma. 34
Scarlet fever	Tuberculosis. 57
Septic sore throat 4	Typhoid fever
Smallpox 2	Whooping cough
Tuberculosis 48	•
Typhoid fever 29	MONTANA.
Whooping cough 18	
MASSACHUSETTS.	Poliomyelitis:
Cerebrospinal meningitis 3	Flaxville
Chicken pox	Lambert 1 Scarlet fover 24
Conjunctivitis (suppurative) 10	O10
Diphtheria 286	
Dysentery 1	Typnoid lever 1
German measles 7	NEBRASKA.
Influenza 6	Chicken pox 26
Lethargic encephalitis 1	Diphtheria
Measles	Measles80
Mumps144	Mumps 23
Ophthalmia neonatorum	Pneumonia 5
Pneumonia (lobar)	Poliomyelitis 5
Poliomyelitis	Scarlet fever
Scarlet fever	Smallpox6
Septig sore throat 5	Typhoid fever
Tuberculosis (all forms)         105           Typhoid fever         13	Whooping cough 9
Whooping cough	NEW JERSEY.
MICHIGAN.	3
Diphtheria289	Cerebrospinal meningitis
Measles	Chicken pox
Pneumonia93	Diphtheria
Scarlet fever	Influenza
Smallpox 89	Damatanah et 3 ferrina
Tuberculosis	
Typhoid fever 36	Poljomyelitis
Whooping cough	Scarlet fever. 64
MINNESOTA.	Trachoma 5
Chicken pox	Typhoid fever 7
Diphtheria119	Whooping cough 59
Measles	
Phelimonia 8	NEW MEXICO.
Poliomyelitis	Chicken pox8
Scarlet fever. 265	Diphtheria 20
Smallpox         30           Tuberculosis         41	Influenza
Tuberculosis	Malaria. 1
Whooping cough	Measles
	Mumps
MISSISSIPPI. Diphtheria	~
Scarlet fever. 7	- ·
Smallpox. 1	Tuberculosis
Typhoid fever 3	Whooping cough 5
1 Week ended Friday.	
come a recorp,	

NEW YORK.	1	vermont. Car	ses.
(Exclusive of New York City.) Cas		Chicken pox. Diphtheria	11 4
Cerebrospinal meningitis	3	Measles.	42
Diphtheria		Mumps	7
Influenza	19	Pneumonia	1
Lethargic encephalitis  Measle3	665	Scarlet fever	11 21
Pneumonia.		Typhoid fever	2
Poliomyelitis	10	Whooping cough	26
Scarlet fever.	282	WASHINGTON.	70
Smallpox	24	Chicken pox	78 19
Whooping cough	224	Measles:	_
NORTH CAROLINA.	- [	SeattleSpokane	47 91
Chicken pox		Yakima	17
Diphtheria	204	Asotin County	11
Measles.	- 1	Stevens County	23 36
Scarlet fever	85	Scattering	16
Septic sore throat	5 36	Pneumonia	2
Typhoid fever	9	Scarlet fever:	
Whooping cough	268	SpokaneSeattering	14 30
OREGON.	- 1	Smallpox	24
Chicken pox	27	Tuberculosis	23
Diphtheria:	10	Typhoid fever	14 10
Portland	12 15	Whooping cough	10
Measles		WEST VIRGINIA. Diphtheria	25
<b>M</b> umps	7	Scarlet fever.	
Pneumonia	1 9 27	Typhoid fever	10
Scarlet fever	21		
Smallpox	13	WISCONSIN.	
Smallpox  Tuberculosis	13 5	Milwaukee:	1
			. 1
Tuberculosis.  Typhoid fever.  SOUTH DAKOTA.	5 1	Milwaukee:  Cerebrospinal meningitis Chicken pox Diphtheria	7 32
Tuberculosis. Typhoid fever	5 1 24	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles.	7 32 3
Tuberculosis Typhoid fever	5 1	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia.	7 32
Tuberculosis. Typhoid fever	5 1 24 27	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles.	7 32 3 2 17 3
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia.	5 1 24 27 47 7 4	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis.	7 32 3 2 17 3 19
Tuberculosis Typhoid fever	5 1 24 27 47 7 4 22	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Whooping cough.	7 32 3 2 17 3
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.	5 1 24 27 47 7 4	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox.	7 32 3 2 17 3 19 31
Tuberculosis Typhoid fever	5 1 24 27 47 7 4 22 6	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria.	7 32 3 2 17 3 19 31 170 141
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS. Cerebrospinal meningitis.	5 1 24 27 47 7 4 22 6	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles.	7 32 3 2 17 3 19 31 170 141 1
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Measles. Pneumonia. Scarlet fever. Whooping cough  TEXAS. Cerebrospinal meningitis Chicken pox.	5 1 24 27 47 7 4 22 6	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles Influenza.	7 32 3 2 17 3 19 31 170 141 1 23
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS. Cerebrospinal meningitis.	5 1 24 27 47 7 4 22 6	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles.	7 32 3 2 17 3 19 31 170 141 1 23 2
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS. Ccrebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery.	5 1 24 27 47 7 4 22 6 2 43 52 55 5	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia.	7 32 3 2 17 3 19 31 170 141 1 23 2 225 6
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS. Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria. Dysentery. Influenza.	5 1 24 27 47 7 4 22 6 2 43 52 55 5 5 122	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia. Searlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles. Influenza. Lethargic encephalitis Measles. Pneumonia. Poliomyelitis.	7 32 3 2 17 3 19 31 170 141 1 23 2 225 6 3
Tuberculosis Typhoid fever.  SOUTH DAKOTA.  Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS.  Cerebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy.	5 1 24 27 47 7 4 22 6 2 43 52 55 5	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia.	7 32 3 2 17 3 19 31 170 141 1 23 2 225 6 3 219
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS. Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria. Dysentery. Influenza.	5 1 24 27 47 7 4 4 22 6 2 43 52 55 5 5 122 1	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis.	7 32 3 2 17 3 19 31 170 141 1 23 2 225 6 3 219 22 \$5
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS.  Cerebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy. Measles. Mumps. Paratyphoid fever.	5 1 24 27 47 7 4 22 6 2 43 55 55 5 5 122 1 20 5 1	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles. Influenza Lethargic encephalitis. Measles. Pneumonia Poliomyelitis Scarlet fever. Smallpox. Tuberculosis	7 32 3 2 177 3 19 31 1700 141 1 23 2 225 6 3 219 22 35 5
Tuberculosis Typhoid fever.  SOUTH DAKOTA.  Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS.  Cerebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy Measles. Mumps. Paratyphoid fever Pellagra.	5 1 24 27 47 7 4 22 6 2 43 52 55 5 5 1 20 5 1 3	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles. Influenza. Lethargic encephalitis Measles. Pneumonia Poliomyelitis Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough.	7 32 3 2 177 3 19 31 1700 141 1 23 2 225 6 3 219 22 35 5
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS.  Cerebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy. Measles. Mumps. Paratyphoid fever.	5 1 24 27 47 7 4 22 6 2 43 55 55 5 5 122 1 20 5 1	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	7 32 3 2 17 3 19 31 1700 141 1 233 2 2 225 6 3 219 22 35 5 158 10
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS.  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria Dysentery. Influenza. Leprosy. Measles. Mumps. Paratyphoid fever. Pellagra. Pneumonia. Poliomyelitis Scarlet fever.	5 1 24 27 47 7 4 22 6 2 43 55 55 5 5 122 1 20 5 1 3 20 1 22 1 20 1 20 1 20 1 20 1 20 1	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough.	7 32 3 2 177 3 119 31 1700 1411 1 233 2 2 2255 6 3 2219 222 35 5 158 10 1
Tuberculosis Typhoid fever.  SOUTH DAKOTA.  Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS.  Cerebrospinal meningitis. Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy. Measles. Mumps. Paratyphoid fever. Pellagra. Pneumonia. Poliomyelitis. Scarlet fever. Scarlet fever. Smallpox.	5 1 24 27 47 7 4 4 22 6 2 43 55 55 5 5 1 1 20 5 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20	Milwaukee: Cerebrospinal meningitis Chicken pox. Diphtheria Measles. Pneumonia Scarlet fever. Smallpox. Tuberculosis Whooping cough. Scattering: Chicken pox. Diphtheria German measles. Influenza. Lethargic encephalitis Measles. Pneumonia. Poliomyelitis Scarlet fever. Smallpox. Tuberculosis Yhooping cough. Chicken pox. Diphtheria Coerman measles. Influenza. Lethargic encephalitis Measles. Pneumonia Poliomyelitis Scarlet fever. Smallpox. Tuberculosis Typhoid fever. Whooping cough. WYOMING. Chicken pox. Diphtheria Influenza.	7 32 3 2 177 3 199 311 1700 1411 1 233 2 225 6 6 3 2199 222 8 5 5 158 100 11 1
Tuberculosis Typhoid fever  SOUTH DAKOTA.  Chicken pox. Diphtheria. Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough.  TEXAS.  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria. Dysentery. Influenza. Leprosy. Measles. Mumps. Paratyphoid fever Pellagra. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Trachoma.	5 1 24 27 47 7 4 22 6 2 43 55 55 5 5 122 1 20 5 1 3 20 1 22 1 20 1 20 1 20 1 20 1 20 1	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	7 32 3 2 177 3 199 311 1700 141 1 23 2 225 6 3 2199 222 3 5 5 158 10 1 1 1 29
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS.  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria Dysentery. Influenza Leprosy Measles. Mumps. Paratyphoid fever Pellagra. Pneumonia. Poliomyelitis Scarlet fever. Smallpox. Trachoma. Tuberculosis Typhoid fever	24 27 47 7 4 22 6 2 43 52 5 5 5 5 5 1 20 1 28 6 4	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	7 32 3 3 2 2 17 3 19 31 170 141 1 23 2 225 6 3 219 22 25 5 5 158 100 1 1 1 29 1 2
Tuberculosis Typhoid fever.  SOUTH DAKOTA. Chicken pox. Diphtheria Measles. Mumps. Pneumonia. Scarlet fever. Whooping cough  TEXAS.  Cerebrospinal meningitis Chicken pox. Dengue. Diphtheria Dysentery. Influenza Leprosy. Measles. Mumps. Paratyphoid fever Pellagra. Pneumonia. Poliomyelitis Scarlet fever. Smallpox. Trachoma Truberculosis.	24 27 47 7 4 22 6 2 43 52 5 5 5 5 122 1 20 1 28 6 4 1 8 6 4 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 2 2 3 2 3	Milwaukee: Cerebrospinal meningitis. Chicken pox. Diphtheria. Measles. Pneumonia. Scarlet fever. Smallpox. Tuberculosis. Whooping cough. Scattering: Chicken pox. Diphtheria. German measles. Influenza. Lethargic encephalitis. Measles. Pneumonia. Poliomyelitis. Scarlet fever. Smallpox. Tuberculosis. Typhoid fever. Whooping cough.	7 32 3 3 2 2 17 3 19 31 170 141 1 23 2 225 6 3 219 22 25 5 5 158 100 1 1 1 29 1 2

#### Reports for Week Ended November 10, 1923.

DISTRICT OF COLUMBIA.		NORTH DAKOTA.	
Cas	ses.	C	ases.
Cerebrospinal meningitis	1	Chicken pox	. 7
Chicken pox	37	Diphtheria	. 42
Diphtheria		German measles	
Influenza		Measles	. 175
Lethargic encephalitis.		Pneumonia	. 3
Measles.	3	Poliomyelitis	. 2
Poliomyelitis	2	Scarlet fever	
Scarlet fever.	20	Smallpox	
Smallpox	6	Trachoma	
Tuberculosis	28	Tuberculosis	
Typhoid fever.	2	Typhoid fever	
Whooping cough	7	Whooping cough.	

### Reports for Week Ended November 3, 1923.

#### NORTH DAKOTA.

Cas	ses.	1 Ca	ъез.
Chicken pox	22	Poliomyelitis	2
Diphtheria	40	Scarlet fever	46
Lethargic encephalitis	2	Typhoid fever	4
Measles			
Pneumonia. *			

#### SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
August, 1923.  Wyoming	1	1			41 23		1	7		9
Alabama.  District of Columbia  Florida  Indiana  Louisiana  Massachusetts  Michigan  New York	2 4 2 13	322 74 96 456 155 1,067 1,002 1,462	88 1 14 18 55 15	1,095 165 155 2	292 9 176 91 208 660 736 1,675	24 3 9	2 10 3 4 2 48 7 197	145 68 11 236 27 677 969 905	8 4 61 11 184 2	165 14 37 84 65 89 156 281

## Cases of Certain Communicable Diseases Reported for the Month of September, 1923, by State Health Officers.

	Number of cases reported.												
	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whooping cough.				
Alabama	26	259	272	4	78	5	108	265	132				
Arizona	2	9	10	1	20		114	10					
Arkansas	43	39	76	111	27	17	52	138	145				
California	126	634	830	24	238	38	650	93	-166				
Colorado	30 16	193	59 28	48 20	62	····· <u>2</u>	232 134	103	39 171				
Delaware	5	115 9	28 5	20	91 17	2	134	59 17	111				
Dist. of Columbia	5	26	7		26	19	98	20	32				
Florida	"	48	79	i	1 1	19	75	36	25				
Georgia1		30		•	1 1		13	30					
Idaho		33	23		16	9	9	22	7				
Illinois	159	607	125	128	444	ğ	1,096	320	490				
Indiana		269	96		166	59	143	137					
Iowa	9	170	5	3	125	13		(3)	9				
Kansas	53	199	111	24	248	27	79	146	142				
Kentucky													
Louisiana		81	21		10	26	109	89	19				
Maine	32	33	128	4	53		42	27	162				
Maryland	24	129	85	14	112	7	193	226	196				
Massachusetts	137	612	165	108	312		. 553	98	341				
Michigan	46	600	222	24	539	78	353	160	280				
Mississippi	85 175	460 348	337 250	70	738 73	34 7	263 219	67 241	· 80				
Missouri 1	1/3	940	200	10	13	•	219	241	100				
Montana	35	35	153	3	31	32	32	34	25				
Nebraska	25	66	35	5	ıĭi	3	02	4	47				
Nevada 2													
New Hampshire 2													
New Jerseŷ	59	348	88		108	1	403	100	169				
New Mexico		67	22	3	17		72	75	16				
New York	234	788	627	165	527	7	1,544	409	975				
North Carolina	44	. 817	510		288	52		206	921				
North Dakota	. 6	37	57		49	5	17	31	30				
Ohio Oklahoma	160	823	99	28	744	40	463	353	493				
Oregon	18	33 57	5 46	4	45   60	6 20	23	48   34	17				
Pennsylvania	223	1, 132	459	104	722	ا ت	454	448	997				
Rhode Island	3	43	20	104	25	••••••	43	130	897				
South Carolina	٠,١	231	33	10	15	8	4	27	35				
outh Dakota	ii	58	46		123	38	18	13	23				
Tennessee 1									•••••				
Texas 1									•••••				
Utah													
Vermont 4	<u></u>						<u></u>						
Virginia	73	499	462	ا-ي:	214	15	130	264	578				
Washington	28	84	52	12	136	20	111	96	59				
West Virginia	30	273	88	ا•يِ	265	2	44	270	257				
Wisconsin Wyoming	88	238	140   23	5 2	285	31	158	36   14	393 11				

Beports received weekly.
 Roports received annually.
 Not notifiable.
 Report not received at time of going to press.

## Reported Cases per 1,000 Population (Annual Basis) for the Month of September, 1923.

	Case rates per 1,000 population.											
State.	Chicken pox.	Diph- theria.	Measles.	Mumps.	Scarlet fever.	Small- pox.	Tuber- culosis.	Ty- phoid fever.	Whoop- ing cough.			
Alabama	0, 13	1.30	1.37	0.02	0.39	0.03	0.54	1. 33	0.60			
Arizona	.06	. 29	. 32	. 03	.64		3.64	.32	l			
Arkansas	. 29	. 26	. 51	.74	. 18	.11	. 35	. 92	.97			
California	.40	2.03	2.65	.08	. 76	.12	2,08	. 30	. 53			
Colorado	.37	2.37	.72	. 59	. 76		2.85	1.27	.49			
Connecticut	.13	. 95	.23	. 16	. 75	.02	1.10	. 49	1.41			
Delaware	. 26	.48	.26	[	.90	<i>.</i>	.79	.90	. 05			
District of Columbia	.14	. 72	. 19		. 72	. 53	2.72	. 56	. 89			
Florida		. 56	.92	.01	.01		. 87	. 42	. 29			
Georgia 1	l.:											
Idaho		. 85	.60	l	.41	. 23	. 23	. 57	.18			
Illinois	.28	1.09	.22	.23	.80	.02	1.96	. 57	.89			
Indiana		1.09	.39		. 67	. 24	.58	. 55				
Iowa	.04	. 84	.02	.01	. 62	.06		(2)	. 04			
Kansas	.36	1.35	. 75	.16	1.68	.18	. 53	`.99	.96			
Kentucky 1		. <b>.</b>										
Louisiana		. 53	.14		.07	.17	.72	. 59	. 12			
Maine	.50	. 52	2.00	.06	.83		,66	. 42	2, 54			
Maryland	. 19	1.04	. 69	.11	. 91	.06	1,56	1.83	1.58			
Massachusetts	.41	1.85	. 50	. 33	.94		1.67	. 30	1.03			
Michigan	.14	1.84	.68	.07	1:65	. 24	1.08	. 49	. 86			
Minnesota	.41	2, 24	1.64		3.59	. 17	1,28	. 33	. 39			
Mississippi	1.19	2, 36	1.70	.48	. 50	. 05	1.49	1.64	5.00			
Missouri i	<u></u>				• • • • • • • • •							
Montana	. 70	. 70	3.05	.06	. 62	.64	. 64	. 68	. 50			
Nebraska	.23	. 60	.32	. 05	1.01	.03		.04	. 43			
Nevada 2												
New Hampshire 2												
New Jersey	. 21	1.25	.32		. 39	.00	1.45	. 36	. 61			
New Mexico		2. 19	. 72	.10	. 56		2.35	2, 45	. 52			
New York	. 26	. 88	. 70	. 19	. 59	. 01	1.73	. 46	1.09			
North Carolina	.20	3.70	2, 31		1.30	. 24		.93	4. 17			
North Dakota	.11	. 67	1.03		. 89	. 09	. 31	. 56	. 54			
Ohio	.32	1.64	. 20	.06	1.48	. 08	.92	. 70	.98			
Oklahoma		. 19	. 03		. 25	. 03		. 27				
Oregon	.27	. 84	.68	.06	.89	.30	.34	. 50	. 25			
Pennsylvania	.30	1.51	. 61	. 14	. 97		.61	.60	1.33			
Rhode Island	.06	.83	. 39	.02	. 49		. 83		. 12			
South Carolina	•••••	1.61	.23	.07	. 10	. 06	.03	. 19	. 24			
South Dakota	.20	1.08	. 85		2, 28	.71	. 33	. 24	. 43			
Tennessee 2									••••			
Texas 1	[	• • • • • • •	•••••	•								
Utah .		• • • • • • • • [			• • • • • • • • • • • • • • • • • • •	• • • • • • • •			•••••			
Vermont 4		· · · <u>.</u> · <u></u>		• • • • • • • • • • • • • • • • • • • •	;-;:-			;-;:-				
Virginia	.37	2, 53	2.34		1.09	.08	.66	1.34	2, 93			
Washington	. 24	.71	.44	. 10	1.15	.17	.94	. 81	. 50			
West Virginia	. 24	2, 14	. 69	ا.یږ.	2.08	.02	.35	2, 12	2.02			
Wisconsin	. 39	1.06	.62	.02	1.27	. 14	. 70	. 16	1.75			
Wyoming	. 40	. 29	1.32	. 11	. 57	!	.11	. 80	. 63			

#### CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923.

#### ANTHRAX.

City.	Cases.	Deaths.
Pennsylvania: Philadelphia.		1

Reports received weekly.
Reports received annually.
Not notifiable.
Report not received at time of going to press.

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-	Week ended Nov. 3, 1923.		City.	Median for pre-		ended 3, 1923.
	years.	Cases.	Deaths.	ex.y.	years.	Cases.	Deaths.
California: Long Beach Passadena Sacramento San Diego San Francisco Connecticut: Waterbury Georgia: Savannah Illinois: Chicago Maryland: Baltimore Massachusetts: Lowell	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 1 1 1	1 1 1 1 1	Missouri: Kansas City. New York: New York. Troy. Ohio: Cincinnati. Cleveland. Pennsylvania: Philadelphia Rhode Island: Providence. West Virginia: Charleston.	0 3 0 0 0	1 1 1 1 1 1	1 1

#### DIPHTHERIA.

See p. 2796; also Current State summaries, p. 2783; and Monthly summaries by States, p. 2787.

INFLUENZA.

•	Ca	ses.	Deaths.		Ca	.ses.	Deaths
	Week ended Nov. 4, 1922.	Week ended Nov. 3, 1923.	week ended Nov. 3, 1923.	City.	Week ended Nov. 4, 1922.	Week ended Nov. 3, 1923.	week ended Nov. 3, 1923.
Alabama:			l	Massachusetts-Contd.		l	1
Dothan				Saugus	5	l	1
Mobile		1	1	Springfield		1	
Montgomery			1	Michigan:	1		1
California:				Detroit	2	2	1
Los Angeles	7	6	1	Flint	l	2	
Oakland	2	Š	i	Highland Park	2		
San Francisco	3	ľí	1 2	Minnesota:			1
Santa Ana		-	I	Mankato	1		1
Stockton		1		Missouri:	-	1	1
Connecticut:		•		Kansas City	1	2	
Meriden	2			New Jersey:		-	1 -
New Britain	4			Hackensack	1		i
New Haven	. *	1	1	Hoboken			1
New London	1			Kearny	1 :		
Waterbury	-	2	2	Newark	12	i	
District of Columbia:		2	-	Passaic	1 12		
Washington	2	1	'1	Paterson		2	'
Georgia:	-	1	1	Trenton	3	ĺí	
Atlanta	1			New York:	l °	1	
Augusta		1		Amsterdam		1	i
Savannah		1		Jamestown	·····i		
Illinois:			• • • • • • •	New York	41		
Alton				Schenectady	41	18	1 2
		1	1	Ohio:	• • • • • • •	1	1
Chicago	10	6	1	Onto:		_	_
Kentucky:	1			Cleveland East Cleveland		1	1
Louisville	3	1		East Cleveland			ı
	3	1	• • • • • • • •	Toledo		• • • • • • •	1
Louisiana: Baton Rouge	. 1	1		Pennsylvania:		_	_
Baton Rouge	1			Philadelphia		1	2
New Orleans	6	1	1	Pittsburgh			1
Maine:		1		South Carolina: Charleston	i		_
Bangor	1		· · · · · · · · · · · · · · · · · · ·		· · · · · · ·	• • • • • • • • • • • • • • • • • • • •	1
Maryland: Baltimore	!	ا ا		Tennessee: Memphis			_
	4	6	2	memphis	• • • • • • • •		1
Massachusetts:	_	I	ŀ	Texas:	1	. 1	
Boston	5			Dallas		1	
Fall River	1 3	1		Houston			1
Quincy							

1

1

. : '

### CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923--Continued.

#### LEPROSY.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California: San Francisco		1	Louisiana: New Orleans	1	1
		MAL	ARIA.		
Alabama: Birmingham	3 1 6	i	Georgia—Continued. Brunswick. Savannah. Louisiana: New Orleans. Michigan: Detroit.	3 3 5	

### MEASLES.

2

Pennsylvania:
Philadelphia...
Tennessee:
Memphis....

Houston..

Los Angeles..... San Francisco.....

Georgia:
Atlanta.....
Augusta.....

Florida: Tampa...

See p. 2796; also Current State summaries, p. 2783, and Monthly summaries by States, p. 2787.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama: Tuscaloosa. Georgia: Atlanta. South Carolina: Columbia.	. 7	1 2	Texas: Dallas. Houston. San Antonio. Waco.		1 1 1 1

#### PNEUMONIA (ALL FORMS).

<u></u>			li	1 .	<del></del>
Alabama:	i	l	Illinois- Continued.		1 : 1
Anniston	. 1	1	Danville	1	
Birmingham			East St. Louis		
Dothan	1		Elgin.		l i
Mobile		i	Elgin. Evanston	1	1
California:	1	-	Freenort		1
	l	3	H Haleshurg	ı	. ,
Los Angeles	23	8	Jacksonville La Salle	1	1
Oakland		ž	La Salle		2
Pasadena.		2	Peoria		1 i
Sacramento		1 5	Peoria. Rockford.	2	l ī
San Diego.	4		SpringfieldUrbana	6	1 4
San Diego San Francisco	11	3	Urbana	i	1
Santa Ana.		2	Indiana:		1
Colorado:		_	East Chicago		
Denver	l	8	Cary	· · · · · · · · · · · ·	1
Pueblo		2	Gary Hammond		1
Connecticut:			Indianandis		å
BridgeportBristol	. 4	2	Indianapolis. La Fayetto		1 1
Bristol		1	Mishawaka		l î
Fairfield	1		Muncie.		2
Hartford		2 !	Terre Haute	•••••	
New Haven		2		• • • • • • • • •	۰
Waterbury		2 '	Iowa:		1
		1	Muscatine	į.	
Vashington		10	Sioux City	1	
Georgia			Kansas:		
Atlanta	11	10	Coffeyville	1	
Brunswick		1 1	Fort Scott	1	l
RomeSavannah	1		Kansas City	3	
Savannah		3	Topeka		1
Illinois:	t	,	Kentucky:		
Alton	1	·········	Lexington		1
Aurora	1 1		Louisville	14	
Champaign	2		Louisiana:		
Chicago		33	New Orleans	11	9

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Maine:			New York:		
Auburn		2	Albany	. 8	1
Biddeford		2	Auburn	.	
Lewiston		1	Buffalo		
Portland	<i>.</i>	] ]	Cohoes		] 1
Waterville	1		Elmira		
faryland:		۱	Hornell		
Baltimore	37	24	Hudson		!
Cumberland	. <b></b>	1	Ithaca	. 2	1
assachusetts:			Lackawanna		·····
Amesbury		1 2	Little Falls		1
Boston	31	23	New York. Peekskill	189	102
Brockton		1	Poughkeepsie		2
Brookline	1	i	Rochester		
Cambridge	······································				5
Chelsea	î		Syracuse	12	1
Danvers. Framingham.	1	i	Yonkers.	•	i
Haverhill.		1			
TT . 1 1		2	North Carolina:	1	1.
Lowell	• • • • • • • • • • • • • • • • • • • •	2	Greensboro		
Molden		-	Winston-Salem		
Malden New Bedford	• ;	·····i	Ohio:		•
Newburyport		i	Akron		
Newton.	• • • • • • • • • • • • • • • • • • • •	i	Bucyrus	1	·····
Oninev		2	Canton		!
Quincy Somerville	4	î	Cincinnati	·····	7
		2	Cleveland		20
Taunton		2	Cleveland Heights		• • • • • • • • • • • • •
Watertown	• • • • • • • • • • • • • • • • • • • •	ĩ	Columbus	2	5
Webster	1	_	Dayton. East Youngstown. Laneaster.	-	· · · · · · · · · · · · · · · · · · ·
Winthrop	î		East Youngstown	• • • • • • • • • • •	3
Worcester		9	Lancaster	2	•
ugan:		J	Lorain		• • • • • • • • • • • •
Battle Creek	1		Middletown	• • • • • • • • • • • • • • • • • • • •	$\frac{1}{3}$
Benton Harbor		1	Tiffin		4
Detroit	38	25	Toledo		6
Flint	4	ĩ	1 June 100 1111 1111 1111 1111 1111 1111 111		O
Grand Rapids	4	2	Oklahoma:		
Hamtramck	. i l		Oklahoma	• • • • • • • • •	6
Highland Park	2		Oregon:		
ackson.		1	Portland		9
Kalamazoo		3	Pennsylvania:		
farquette	3	1	Philadelphia	74	47
duskegon		i	PhiladelphiaPittsburgh		37
Pontiac	2		Rhode Island:		
Port Huron	1		Powtucket		2
Saginaw		1	Providence		3
nesota:	- 1		South Carolina:	- 1	•
Duluth		1	Charleston		3
DuluthFaribaultHibbing		1	Columbia		ĭ
Hibbing	1	ا بِـــــا	Greenville		3
Minneapolis		2			·
St. Paul		7	South Dakota: Sioux Falls	1	1
puri:	!	_			
Kansas City	14	9	Tennessee:	j	-
t. Joseph	•••••	3	Memphis		5
ana:		, 1	Masnville		5
Billings		1 1	Texas:	_	4
Missoula	2	1	Dallas	5	1
raska:	ŀ	1	Galveston		1
Lincoln	••••••	2			3
Omaha		2	HoustonSan Antonio		6 6
Hampshire: Nashua.	ļ	1			U
Nasnua	••••••	- 1	Utah: Salt Lake City	ı	3
Atlantic City	- 1	1			·
Bloomfield	3.	- 1	Virginia: Lynchburg	i	1
Camden	3	i	Norfolk.		9
East Orange	2		Petersburg		$\frac{2}{2}$
Clizabeth		4	Portsmouth		<b>4</b>
Iarrison	ı.	*	Richmond		2
Hoboken	· ·	5	Roanoke	5	
Jersey City	il.	٠	West Virginia:	٠	
lersey City	3 .		Charleston		1
Morristown.	٠,	i	Huntington		2
Vewark.	38	5	Huntington	i 1.	
Orange	2.		Wisconsin:	- 1.	<b>-</b>
Passaic	-	2	Ashland	ı	1
Paterson	2 1		Beloit		î
	- 4				
Phillipsburg.		1 11	Kenosna		,
Phillipsburg. Frenton Vest Hoboken		1 2	Wisconsin: Ashland Beloit Kenosha Milwaukee Racine		1 4

#### POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		c ended 3, 1923.	City.	Median for pre-		ended 3, 1923.
	vious years.	Cases.	Deaths.		vious years.	Cases.	Deaths.
Arkansas: North Little Rock California: Los Angeles Pasadena San Francisco. Connecticut: Hartford New Haven Waterbury District of Columbia: Washington Hlinois: Chicago Danville Urbana Indiana: Terre Haute Maine: Portland Massachusetts: Boston	0 0 0 0 0	1 2 2 1 1 1 1 1 1 1 1 8 8	i	Massachusetts—Contd. Haverhill Lowell Pittsfield Wakefield Minnesota: Rochester Nebraska: Omaha New Jersey: Hackensack Newark Trenton New York: Amsterdam Buffalo Ithaca New York Ohio: Columbus Pennsylvania: Pfilladelphia	0 0 0 0	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
ChelseaEverett	0	1		Rhode Island: Providence	0	, <b>1</b>	

#### RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California: Los Angeles. Missouri: Kansas City.		New Jersey: East Orange Tennessee: Memphis.	

#### SCARLET FEVER.

See p. 2796; also Current State summaries, p. 2783, and Monthly summaries by States, p. 2787.

#### SMALLPOX.

The column headed "Modian for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		k ended 3, 1923.	City.	Median for pre-		ended 3, 1923.	
	vious years.				vious years.	Cases.	Death	
('alifornia:				Missouri:				
Long Beach	0	2	1	St. Louis	0	2	1	
Los Angeles	ľi	31		North Carolina:	·	•	1	
Riverside	Ô	i i		Greensboro	0	1	1	
San Bernardino	ŏ	î	1	Ohio:	"		· · · · · · · ·	
District of Columbia:	1 "			Toledo	. 0	,	1	
		. 1	ł	Youngstown	ŏ	•		
Washington				Zanesville	N N	17		
Georgia:	0	. 9	i	Oregon:		17		
Atlanta		9				_	l	
Illin <b>ois</b> :		_	i	Portland	2	1	<b></b>	
Chicago	. 1	1		Pennsylvania:		_	1	
Indiana:			1	Philadelphia	0	6		
Fort Wayne		1	1	York	0	1	1	
Gary	0	1	1	Tennessee:			ļ	
Indianapolis Kokomo	1 1	1	1	Chattanooga	0	3	1	
Kokomo	0	1		Knoxville	0	2		
Michigan City		1		Washington:			•	
Muncie	0	1		Seattle	. 0	2		
lowa:				Tacoma	Ó	2		
Clinton	0	6		Wisconsin:	. 1	_		
Michigan:	*	•		Milwaukee	5	3		
Detroit	2	9		Racine	ŏ	1	• • • • • •	
Highland Park	ő			Superior	ŏ	. 1		
Holland	ŏ	4		Caperior	•	-		
Jackson	ő			i I				
	U J	. 12			l			
finnesota:	ام	2			1			
Duluth	0		•••••		I			
Minneapolis	3	1			i			
St. Paul	3	7						

#### TETANUS.

City.	City. Cases. Deaths.		City.	Cases.	Deaths.
Alabama: Mobile Illinois: Chicago. Indiana: Terre Haute. Massachusetts: Boston Cambridge Newburyport. Missouri: St. Louis.	1 1	1 1	New Jersey: Atlantic City New York: New York Poughkeepsie Ohio: Bucyrus Pennsylvania: Philadelphia Tennessee: Nashville.	2	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

#### TUBERCULOSIS.

See p. 2796; also Current State summaries, p. 2783.

#### TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding week of the years 1915 to 1922, inclusive. In instances in which data for the full eight years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre-		k ended 3, 1923.	City.	Median for pre-			
	vious years.	Cases.	Deaths.		vious years.	Cases.	Deaths	
Arkansas:				New York:				
Little Rock	1	6		Albany	2	1		
California: Los Angeles	5	3	ł	Buffalo Elmira	1 0	1 1		
Oakland		ı		New York	26	16		
Sacramento	ĭ	2	i	Peekskill	õ	ĩ	l	
Colorado:		_	į .	Schenectady	0	1		
Pueblo	1	1		North Carolina:			Ι.	
Connecticut: New Haven	1	1	l .	Durham	0	3	:	
District of Columbia:	1 1	•	1	Ohio:			1	
Washington	3	5	1	Chillicothe	0	1	l	
Georgia:			!	Cincinnati	0	2		
Atlanta	0	1		Cleveland	4	1		
La Grange	0	1 4		Hamilton Lorain	0	2		
Macon Savannah	ĭ	i	·····i	Mansfield	ŏ	1 -		
Minois:	- 1	•	•	Mansfield New Philadelphia	·ŏ	2	l	
Chicago	9	11	2	l Newark	• 0	1		
	0	1		SanduskyYoungstown	0	2	ļ <sub>i</sub>	
Jacksonville	0	1		Youngstown	2	1	1	
Mattoon	1 0	1 2		Oregon: Portland	0	1	l	
PeoriaIndiana:	٧	-		Pennsylvania:	U			
Muncie	0	1		Berwick	0	1	l	
Kentucky:				Hazleton Jeannette	0	1		
Louisville	2	1	1	Jeannette	0	1		
Louisiana:			ı	Norristown Philadelphia	9	1 6		
New Orleans	3	5		Pittsburgh	1	2	9	
Sanford	0	1		Reading	î	ĩ		
darviand: i	- 1	- 1		Reading Rhode Island:	_	_		
Baltimore	9	4	2	Cranston	0	1		
Cumberland	1	1	·····i	South Carolina:	_			
Massachusetts:	2	2	1	Greenville South Dakota:	0	1		
BostonClinton	ől	í		Sioux Falls	0	1		
Fall River	ĭ	2		Tennessee:	•	•		
Holyoke	0	1		Knoxville	0	2		
Holyoke Lynn Malden	0	2		Memphis	2	1	2	
Malden	0	1		Nashville Texas:	3	3	1	
Medford New Bedford	0	1 1	····i	El Paso	• 2	2		
Springfield	ôl	i	*	Fort Worth	õ	ī		
Taunton	0	5		Galveston	0		1	
Taunton	0	2		Waco	0		1	
dichigan:		1	- 1	Vlrginia:	اما	!		
Benton Harbor	0	•••••	1	Charlottesville Lynchburg	0	1 1	• • • • • • •	
Detroit	8	7 3	1 1	Roanoke	ŏ	3	·····i	
finnesota:	•	١	-	Washington:	~ i	~	•	
Duluth	0	1	<b></b>	Everett	0	2		
St. Paul	1	1	1	Seattle	0	1		
lissouri:			il	West Virginia:	ا م			
JoplinSt. Joseph	0	1 1		Fairmont	0	2	•••••••••••••••••••••••••••••••••••••••	
St. Louis	8 .		····i	Martinsburg	ŏ	il		
lew Hampshire:	- 1		- 1	Wheeling	ŏ	7		
Berlin	0	1 .	. <b></b>	Wisconsin:				
lew Jersey:		l	. 11	Green Bay	0	1 .	· · · · · · · ·	
Camden	o .		1	Marinette	0	1 .	• • • • • •	
Elizabeth Hoboken	0	2	· · · · · ·	Milwaukee Superior	1	1	• • • • • • •	
Newark	3	il	····i	Superior	١	•	• • • • • • •	
	٠,	- 1	- 1	1	- 1	1		

#### TYPHUS FEVER.

City.	Cases.	Deaths.
New York: New York.	1	

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

	Popula-	Total deaths	Diph	theria.	. Mos	sles.		arlet ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:								1 .	1	
Anniston	17,734	7			i	ļ	2		2 2	ļ <u>.</u>
Birmingham Dothan	178, 806 10, 034	51 2	5		10		4		· Z	6
Mobile	60,777	19	1 2	i	1					i
Montgomery	43,464	10	2		.		7			1
Tuscaloosa	11,996		. 1		·					
Fort Smith.	28,870		3		.	J	2	l		l
Little Rock	65, 142		1						5	
North Little Rock	14,048		1		·		1			
California: Alameda	28,806	}	1			i	1	l		
Bakersfield	18,638	7	8				2			i
Glandala	13,536	10		. 1						1
Long Beach Los Angeles Oakland	55, 593	21 206	60	i	3		1 36	····i	58	19
Oakland	576,673 216,261	50	14		5		18		1	19
1 850UCH8	45, 354	22	i		1		3		2	Ĩ
Richmond	16,843	2			4					
Riverside	19,341 65,908	18	1 4		5 2		2		4	
San Bernardino	18,721	15	2		1		5		2	
San Diego.	74,683	32	6		2		1		4	1
San Francisco	506,676	145	25		109		14		21	12
Sar Bernardino San Diego. San Francisco. Santa Ana	15,485	8			1		1			
Santa Cruz. Stockton	10, 917 40, 296	ð	6		i		ii		2	
Vallejo	21, 107	Ž	l		ļ <u>-</u>		ī		ļ <u>.</u> .	
Colorado:				١.	١.			!	l	
Denver Pueblo.	256, 491 43, 050	67 11	33 5	1 2	1 2	1	12 7		3	8
Trinidad	10,906	11		l			li			
Connecticut:							l			
Bridgeport	143,555	20	6	1			7		1	·····;
Bristol	20,620	8 0	1				2 5			1
Greenwich (town)	11,475 22,123				17				i	
Hartford	138,036	10	10				1		4	
Manchester (town) Milford (town) New Haven	18,370	2					1			
New Hayen	10, 193 162, 537	1 39	1 1	•••••		• • • • • •	12		7	•••••
New London.	25,688	3								
Waterbury	91,715	22	10		1		15	1	2	
District of Columbia: Washington.	497 571	128	20	3	10		21	1	32	9
Florida:	437, 571	120	20	ا "	10	•••••	21	•	32	
St. Petersburg	14,237	1								
Tampa	51,608	15	2							3
Georgia: Albany	11 555		2							•
Atlanta	11,555 200,616	70	14	4	12		7		5	5
Augusta	52, 548	16	2							6
Brunswick	14,413 17,038	4			· • • • • • • • • • • • • • • • • • • •		;-			1
Lagrange	17,038   52 005		1 2	• • • • •	•••••		1		4	•••••
Rome	52, 995 13, 252		î		3			•••••		•••••
Savannah	83, 252	25				i	2		4	
Idaho:				l		1				
Pocatello	15,001	1		•••••	•••••	•••••		•••••	•••••	•••••
Alton	24,682	5	4							
Aurora	36, 397	13	12	1		1			3 1	•••••

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Dipl	theria	Me	asles.		arlet ver.	Tu	ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Illinois—Continued.										
Bloomington	28,725	5	l		. 1	ļ	. 3	ļ	. 6	ļ
Champaign	15, 873	····	2				i		·	<u></u>
Chicago	2,701,705 33,776 66,767	573 11	141 2	9	27		62		231	53
East St. Louis	66, 767	21	4			····i	1			2
Kløin	27, 454	7	l î	1			4			ī
Evanston	27, 454 37, 234		4				4		. 1	ļ
FreeportGalesburg	19,669 23,834	11								
Jacksonville	15,713	5		1						
Kewanee	16,026	0			1		1			
La Salle	13,050	4					1			
Mattoon Pekin.	13, 552 12, 086		2			<b> </b>				
Peoria	76, 121	18	6				3		1	i
Rock Island	35, 177	4			2				2	
Rockford	65, 651	17	1				ļ		ļ	2
Springfield	59, 183	28	3			·	4		1	1
Urbana Indiana:	10, 244		3	·····						
Anderson	29, 767	1	2	l	1		2	l	l	l
Bloomington	11, 595	ī					2			
Crawfordsville	10, 139	2	4				1			<b>-</b>
East Chicago	35, 967	18	3				1			
ElwoodFort Wayne	10,790 86,549	6 14	10	····i	25	••••	5			1
Frankfort	11, 585	3	10		i					
Gary	55,378	8	3	1			6.			
Hammond	36,004	6	4				2.	<b> </b> -	ļ	
HuntingtonIndianapolis	14,000	3	15	2	2	• • • • • •	5		5	••••
Kokomo	314, 194 30, 067	67 5	6	2	_ Z		11.		i	°
La Fayette	22, 486	7								
Logansport	21,626	6	2	1						
Michigan City	19, 457	5		• • • • • •						
Mishawaka	15, 195 36, 524	2 7	• • • • • •	• • • • • • •		• • • • • •	3	*****	1	
Newcastle	14, 458	i	i							
South Bend	70, 983	7	8	1			11-			
Terre Haute	66,083	22	4				8			1
Iowa:	04.057	7					1	1		
BurlingtonCedar Rapids	24,057 45,566	•	i	• • • • • • • • • • • • • • • • • • • •			11			
Clinton	24, 151		8				11			
Clinton	56,727		10	1	19		1.			
Dubuque	39, 141	1	1							<b>-</b> -
Muscatine	16,068	3		•••••			2			- • • • •
Ottumwa	23,003 71,227	·····i	5 9	1	85		6		•••••	• • • • • •
Waterloo.	36, 230						2	2.2		
Kansas:	1									,
Atchison	12,630				62		1			
Coffeyville Fort Scott	13, 452 10, 693	2 2	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	••••	• • • • • •	• • • • • •	1	•••••
Hutchinson	23, 298		1							
Kansas City	23, 298 101, 177		5				6		8	
Lawrence	12,456	5		• • • • • •						1
Parsons	16,028 50,022	17	2 5	• • • • • •			. 3	:	····i	i
Wichita.	72, 217	24	3						1	i
Kentucky:	· ·	ı	- 1							
Covington	57, 121	13	2				10	]	2	1
HendersonLexington	12, 169	5 11	3				4			1
Louisville	41,534 234,891	71	9		3		1 4		13	1 8
Owensboro	17, 424		i						13	
Louisiana:										
New Orleans	387, 219	155	11	. 1	5		5		16	11
Maine: Auburn	16,985	. 8		. 1		[		ļ	1	
Bangor	25, 978	0	····i							
Bath	25, 978 14, 731	0								
Biddeford	18,008	. 8 !	J		11	- 1	. 1			•

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula-	Total deaths	Diphtheria.		Measles.		Scarlet fever.			ber- osis.
City.	tion Jan. 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Doaths.
Maine-Continued.										
Lewiston	31,791	11	3		4		. 1	ļ	. 1	1
Portland Sanford (town)	69, 272 10, <b>6</b> 91	12	1				i		.	
Waterville.	13, 351	l	2		1		J			
Maryland:	· ·			_	l _		1			
Baltimore	733, 826 29, 837	197 7	20	1	7		14		. 35	15 1
Frederick	11,066	i	5				ļī.			
Massachusetts:	12,967	1	1	1		1	1	1		i
Adams (town)	10,036	. 5								
Arlington (town)	18,665	3							1	1
AttleboroBelmont (town)	19, 731 10, 749	8 2			i		····i			1
Beverly	22, 561	7	i				. 2			
Boston	748, 060 10, 580	204	68	6	32		53		42	14
Braintree (town) Brockton	66, 254	14	3 5				i			····i
Brookline	37,748	5			8		3			
Cambridge Chelsea	109, 694 43, 184	23 12	5 1	1	3		8		3	2
Chicopee	36, 214 12, 979	4	î				i		i	
Clinton	12,979	1			1					
Danvers	11, 108 10, 792	2			4	• • • • •			2	•••••
Easthampton	11, 261				1					
EverettFall River	40, 120 120, 485	6 24	10				1			3
Framingham	17,033	3	10							3
Gardner	16,971	2								
Greenfield	15, 462 53, 884	7 12	5		3		3			
Holyoke	60, 203	15	4	1					3	1
LawrenceLeominster	94, 270 19, 744	24 6	32	1	1		3 2		2 3	2
Lowell	112,759	27	2				3		ı	3
Lynn	99,148	19	6		4		7		2	2
Malden Medford	49, 103 39, 038	13 8	3 1	1			4 2		2	1
Melrose	18, 204 15, 189	2	1							
Methuen New Bedford	15, 189 121, 217	4 20	6		1		····i		4	
Newburyport	15,618	7								
Newton	46,054	8	i				3		2	<b>-</b>
North Adams Northampton	22, 282 21, 951	2 3					····i		····i	····i
Peabody	19,552	6	11				2			1
Peabody Pittsfield Plymouth Quincy Revere	41,763 13,045	6	3		19			•••••	2	1
Quincy	47,876	10	7		2		i		i	· · · · · · ·
RevereSalem	28, 823 42, 529	5 11	4	1 2	13	•••••	···· <sub>2</sub>		3	•••••
Somerville	93,091	16	6		].		4		6	· · · · · · ·
Southbridge	14, 245	2	1 2	;-	7		;-			• • • • • •
Springfield Taunton	129, 614 37, 137	36 12	1	1	. 2		1		4	·····i
Wakefield	13, 025	2					1			
WalthamWatertown	30,915	5 6	5	•••••	9		2 2		····i	•••••
Webster	21,457 13,258		3				í			· • • • • •
West Springfield	13,443	1	6	1 .	-		1		1	····i
Winchester	18,604 10,485	4					2		1	1
Winthrop	10, 485 15, 455	4 .					ī į			•••••
Woburn	16, 574 179, 754	3 48	14	····i·	3		10	•••••	4	•••••
Michigan:	Į.	- 1	- 1	*	٠,		40		1	•••••
Ann ArborBattle Creek	19,516	8	1.		-		إ.		1 .	
Benton Harbor	36, 164 12, 233 993, 678	0 11	5				5 2 83		1 .	····i
	000, 200						- 1			
DetroitFlintGrand Rapids	91, 599 137, 634	247 16	68 21	4	19 . 9 .		83	3	29	25

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued.

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

4	Popula-	Total deaths	1 -	htheria	Me	asles.	Sc fe	arlet ver.		ber- osis.
City.	tion Jan. 1, 1920.	from all causes.		Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Michigan—Continued.										
Hamtramck	48, 615	5	1 1	i	·;·	ļ	3 7	ļ	·	ļ
Highland Park Holland	46, 499 12, 183		1		1 1					
Ironwood	15, 739	1	1				3			i
Jackson	48, 374	13	2 3		1				2	·····i
Kalamazoo Marquette	48, 487 12, 718	20			119		6		3	1
Muskegon	36, 570	13	5				6			1
PontiacPort Huron	34, 273 25, 944	8	3	1			9			
Saginaw	61,903	14	9	1	7		4	1	3	
Sault Ste. Marie	12,096	4	4		11		1			ļ
finnesota: Duluth	98, 917	12	4	1	1	1	12	1	2	1
Faribault	11,089	7	l	i	25		2		1	
Hibbing	15,089	3	<u></u> -	.			1			
Minneapolis	380, 582 13, 722	79 24	33	1	2 2		66	1	16	
Rochester	15, 873		7		l					
St. Paul	234,698	57	18		1		21	1	5	
Virginia Winona	14, 022 19, 143	i	5				4			
Lissouri:	10,110	•	l							l
Cape Girardeau	10, 252	2	1							
Joplin	29,902	97	18	i	4		17			•••••
Kansas City	324, 410 77, 939	33	3	1	2		9		8	
St. Louis	772, 897	193	33	1	4	1	47	1	36	10
[ontana:	-	_	l				١.			
AnacondaBillings	11,668 15,100	5 5			12 10		1			
Great Falls	24, 121	9	4	1						
Helena	12,037	2								
Missoulaebraska:	12,668	8								
Lincoln	54,948	7	10	1	3		4			
Omaha	191,601	34	18		1		4			1
evada: Reno	12,016	2			ll					
ew Hampshire:										
Berlin	16, 104	5	2		9					
Concord	22, 167 13, 029	4 3			9		1			
Keene	11,210	3			12	• • • • • • • • • • • • • • • • • • • •	1	:		2
Nashua	28,379	6	1		4	• • • • • •	,,		1	• • • • •
ew Jersey: Asbury Park	12,400	1								
Atlantic City	50,707	12								
BayonneBloomfield	76,754	2	5		•••••	• • • • • •	5 1	• • • •	2	i
Camden	22, 019 116, 309	30	18	••••					3	2
Clifton	26,470	2					1		1	
East Orange Elizabeth	50,710 95,783	3	1 18		3		3	····i	1	•••••
Englewood	11,627	3	10							
Garfield	19,381	3							1	
Hackensack Harrison	17,667 15,721	3	i				2		2	1
Hoboken.	68, 166	15							i	• • • • • • • • • • • • • • • • • • •
Jersey City	298, 103		8		8		6		15	
Kearny Long Branch	26,724 13,521	6	1		1		1.		1	2
Montclair	28, 810	1 0 7							1.	 
Morristown	28, 810 12, 548								1	i
Newark	414,524	81	12	. 1			2		13	6
Orange	63.841	26	3		· · · i		6		3	2
Paterson	414,524 33,268 63,841 135,875 41,707		3 2		14		2		3 2	
Perth AmboyPhillipsburg.	41,707	4	1			•••••	•••••	•••••	1	• • • • •
Plainfield	27, 700	4 5 3 1	····i		19					
Summit	10, 174 119, 289	1							1	5
Trenton	110 220	39 !	9 1		1 1			1	<u>2</u> l	

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula-	Total deaths	Diph	theria.	Mea	isles.		arlet ver.		ber- osis.
City.	tion Jan. . 1, 1920.	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Jersey—Continued.										
West Hoboken	40,074	4	<u>-</u> -	ļ				ļ	ļ <u>.</u> .	
West New York	29,926 15,573	0	1						1	
New Mexico:	•		-							
Albuquerque New York:	15, 157	12						1		8
Albany	113,344	ļ	24			<b> </b>	15	ļ	9	
AmsterdamAuburn	33,524 36,192	11 9	31		5		9		·····	1 1
Buffalo	506, 775	127	28	1	1		22		12	7
Cohoes	22,987 19,336	2 2			10 7	<b> </b>				
Dunkirk Elmira	45,393	12					3			
Geneva	14,648	7								1
Hornell	15,025 11,745	2 2	····i							
Ithaca	17,004	6	1		4				1	
Lackawanna Little Falls	17,918 13,029	2 3	5				4		1	
Lockport	21,308	7			33		5			i
Middletown Mount Vernon	18,420 42,726	14			7	• • • • • •	• • • • • •		1 2	1
New York	5,620,048	1,136	149	9	119	3	52		1 170	1 82
Newburgh	30,366 15,482	. 8	3		1		1 7			2
North TonawandaOlean	20,506	27	3			•••••	í	• • • • • •		
Peekskill	15, 868	3	2				1			1
Plattsburg Poughkeepsie	10,909 35,000	8				•••••	•••••	•••••	3	i
Rochester	35,000 295,750	76	6				1		13	3
Rome.	26,341	6 2	i		24	•••••	5 1	• • • • • •		1
Saratoga Springs Schenectady	13, 181 88, 723	15	18	i	25		3		5	
Syracuse	171,717	56	7		16		12		8	3
Troy. Yonkers	72, 013 100, 176	26 12	3		30 3		3	•••••	3	1
North Carolina:			_							_
Durham	21,719 43,525	6 9	3 2		3	• • • • • •	2 7	•••••	• • • • •	1
Rocky Mount	12,742	7								
SalisburyWilmington	13, 884 33, 372	1 7	4				4	•••••	····i	3
Winston-Salem	48, 395	18	9		28		3		4	2
North Dakota:	01 001	_								
Fargo Grand Forks	21,961 14,010	6					9			1
Ohio:	-	00					ا			
Akron	208, 435 22, 082	36 2	10				9	:::::	•••••	· · · · · · ·
Bellaire Bucyrus.	15,061	4					6			<b>-</b>
Canton.	10,425 87,091	6 13	1 22		····i	•••••	6			· · · · · •
Chillicothe	15,831	4	1				1			• • • • • • •
Cincinnati	401, 247 796, 841	113 158	16 39	1 2	9 7		24 28	1	17	4 8
Cleveland Heights	15, 236			2			1		1	•••••
Columbus	237,031	67	13	2			7 9	•••••	8	4
Dayton East Cleveland	152, 559 27, 292	34	17		1		2		2	•••••
East Youngstown	11, 237	3								
Findlay Hamilton	17,021 39,675	7	····i	i			····i		····i	
Kenmore	12,683 14,706 41,326 37,295		<i>.</i>				î			•••••
LancasterLima	14,706	6 12	1		···· <sub>7</sub> ·	•••••	1	•••••		•••••
Lorain	37, 295		8		'.		18			• • • • • • • •
Mansfield. Martins Ferry.	27,824 11,634	10 2	2		····- ·	•••••	3		2	1
Middletown	23,594	5	2				1 .		···i	· · · · · · ·
New Philadelphia	10,718 26,718		ī		4 .		ī.			•••••
Newark Niles	28,718 13,089	3 1					1 .			
141162	10,000	· I I		· · · · · · · · · · · · · · ·			1  .			•••••

<sup>1</sup> Pulmonary only.

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

	Popula- Tota		1 -	htheria	Ме	asles.	Sc fe	arlet ver.	Tu	ber- osis.
City.	tion Jan. 1, 1920.	from all causes	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ohio—Continued.										
Ohio—Continued. Norwood	24,966	2 3		.	.		.			. 1
Piqua Salem.	15,044	3	1		· ·····		.		·	
Sandusky	10, 305 22, 897	5	i				22			ii
Sandusky Springfield	22, 897 60, 840	10	i		i		2			1
1 1111111	14,375	6		-	.	.	.		ļ <u>.</u> .	
Toledo	243, 164	. 57	27 27	1 1	1		15 16	1 1	3	5
Zanesville.	132,358 29,569	10	2				6	1	1	5 1 1
Oklahoma:		İ	1	1	1	1	1	1	1	1
Oklahoma	91,295	36	5		1		. 2			1
Oregon: Portland	258, 288	61	14	2	148		6	1	8	1
Pennsylvania:	•	"		-			"		۱ ۴	1 *
Allentown	73,502		4	ļ					ļ	
Altoona	60, 331 12, 730 12, 802 50, 358			.	····i		.4			
AmbridgeBeaver Falls	12,730		3 7		1 1		14	;	i	
Bethlehem	50.358		6				3		li	
Braddock	20,019		5				1		Ĩ	
Butler	23,778		2	1			4			
Chambanhung	11,516 13,171						2 3			
Chambersburg Chester	58,030				i		1			
Coatesville	14,515		i		l		l î			
Connellsville	13,804		3				6			
Dubois	13,681						1			
Duquesne Easton	19,011		1				1 1			
Erie.	33,813 93,372		13		7		14		3	
Farrell	93,372 15,586	l	18		l		2			
Greensburg	15,033		4							
Harrisburg	75,917		i		4		4 2			
Homestead Jeannette	20,452 10,627		6				2	•••••	• • • • • •	
Johnstown	67,327		15				8			
Lancaster	53, 150		3				7			
McKees Rocks	16,713 46,781		15 3 1 2 2 2 2 3				2			
McKeesport Monessen	18, 179	• • • • • • • • • • • • • • • • • • • •	2		•••••			• • • • • •	• • • • • • •	• • • • •
New Castle	44 038		2				1			
New Kensington	11,987 32,319 14,928		3				1			
Norristown	32,319		1						2	•••••
North Braddock	14,92× 21,274		1 2				2 4		·····2	•••••
Oil City. Olyphant.	10, 236	• • • • • • • •	6			•••••	*			
Philadelphia	10,236 1,823,779 10,484	504	83	5	10		44		64	26
Phoenixville	10,484				1					
Pittsburgh Reading Scranton	588,343	179	48 5	4	3 1	• • • • • •	.43	4	. 18 . 2	8
Scranton	107,784 137,783		6				3		4	
Shamokin	137,783 21,204 21,747		2							•••••
Sharon.	21,747		4 2 3				3			• • • • •
Steelton	13,428		2			• • • • •	••••2			• • • • • •
SunburyTamaqua	15,721 12,363	••••••	i				2			•••••
Uniontown	15,692		2							
WarrenWashington	14 272						3		1	
Washington	21,480 11,717 73,833		6		12	• • • • •	5	•••••		• • • • •
Wilkes-Barre.	73 833		9		3		1 2			• • • • •
Wilkinsburg	24,403		5				3 3 2		····i	
Williamsport	36,198		1		111		3		]	
Wilkinsburg Williamsport Woodlawn York	12,495 47,512		٠٠٠٠٠ ا			•••••	2			•••••
YorkRhode Island:	47,512		3			•••••	4			•••••
Cranston	29.407	7	1						اا	2
Cumberland (town) East Providence (town)	10,077	2	1							·····
East Providence (town)	29, 407 10, 077 21, 793 30, 255	ا٠; ٠٠٠٠٠	1	:-		•••••				• • • • •
NewportPawtucket	64 248	20	3	1		• • • • • •				····i
Providence.	64, 248 237, 595	62	9	···i	i		9			3
	201,000 1	02 1	• 1	- 1	- 1	1	<b>3</b> 1.			

# CITY REPORTS FOR WEEK ENDED NOVEMBER 3, 1923—Continued. DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

<b></b>	Popula-	Total deaths		phtheria	Me	asles.		arlet ver.	Tu cul	ber- losis.
City.	Popula- tion Jan. 1, 1920.	from all causes	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
South Carolina:										
Charleston Columbia	67,957 37,524 23,127	22		7	-	ļ	. 3	1		3
Greenville.	23, 127	24		î	. 4		3			3 3 3
South Dakota:	ł	i .	1		1		1 -			١
Sioux Falls Tennessee:	25, 202	13	:	2	. 1					
Chattanooga	57,895			<b>4</b>			3	1		l
Knoxville	77,818 162,351 118,342		. 4	4 2	6		8		2	2
Memphis Nashville	162,351	52	11		. 1		4		10	2 5 6
Texas:	110,342	43	4	<b>!</b>			2		4	6
Amarillo	15,494	1					3	l		
Beaumont	15,494 40,422 10,522	4	2	3			1			i
Corpus Christi	10,522	2			70		2		;-	
Dallas. El Paso	158,976 77,560 106,482 44,255	34 27 29 17	4		1		2		1 8	····· <del>7</del>
Fort Worth	106,482	29	5		i		2 2 3		ĭ	7 2 1 1
Galveston	44,255	17	1				3			1
Houston	161 370	30 53	3				5			8
Waco	138, 276 161, 379 38, 500	ii					i			
Utan:				1						•••••
Salt Lake City	181, 110	44	10		2		2			2
Alexandria	18,060	0	1	1	1 1		- 1	l	l	
Alexandria Charlottesville	18,060 10,688						2			•••••
Danvilla	21,539	6	2				3		1 .	•••••
Norfolk	30, 070	9	9		1		2	····i		•••••
Petersburg	115,777 31,012	9	4	i				1	4	4
Lynchburg. Norfolk. Petersburg. Portsmouth. Richmond.	31, 012 54, 387 171, 667	14					3			•••••
Richmond	171,667	50	12	1	1  .		5 .		3	3
RoanokeVashington:	50, 842	16	8				5 .	•••••	1	1
Bellingham	25, 585	l	1	<b> </b>	1 .					
Seattle	315, 312		4		22 .		14		ii .	•••••
Tacoma. Vancouver	25, 585 315, 312 96, 965 12, 637		3		3 .		6 .	-		••••
Yakima	18, 539		1		25 .					•••••
Vest Virginia: Bluefield.			• • • • • •		1					•••••
Bluefield	15, 282	5	2		1  .					••••
Charleston	39, 608 27, 869	14 5	7		-		4   -		-	••••
Tairmont	17, 851	3	i			-	i.		-	••••
Huntington	50, 177	20	1				2	i	4 .	•••••
Morgantown	12, 127 20, 050		1	-	••••• •		3 .		1 ].	••••
Wheeling.	56, 208	3 .	···· <u>·</u>	1 ' i	···i		1 .			····i
isconsin:			-	1 1	-  -		۰ ۰		•••••	1
Appleton	19, 561	8 .				-				••••
AshlandBeloit.	11,334 21,284	6 7	4				1 -			2
Ean Claire	20, 906		î			•••••	2	•••• ••	•••• ••	••••
Fond du Lac Green Bay Janesville Kenosha	23, 427	5	1		!		3 .			
Green Bay	31,017		5		15		8			
Vanosha	18, 293	····i	5 2 2						1	••••
La Crosse	30 421	- 1	2		5		4	••••	2	••••
Madigon	40, 472 30, 421 38, 378	3	8		î					••••
Manitowoc	17.563 [		Ĭ	].					i	••••
Marinette	13,610 457,147 33,162			-			1			••••
Oshkosh.	33, 162	68 2	31		5		21		8	3
Recino	58, 593	11	3 .		i		34			••••
Sheboygan	30 055	2	8				4			••••
ATEVENS POINT	11,371  .		•				7			, <u>.</u>
Simerior	20 671 1									1
Sheboygan Stevens Point. Superior Wansau	39, 671 18, 661	6	10	•••••	1		1		;-	. *
Superior Wausau West Allis	11, 371 39, 671 18, 661 13, 745	6	10				3		i	

### FOREIGN AND INSULAR.

### CANADA.

Communicable Diseases—Ontario—October, 1923 (Comparative).

Communicable diseases have been reported in the Province of Ontario, Canada, as follows:

	Octob	er, 1923.	October, 1922.		
Disease.	Cases.	Deaths.	Cases.	Deaths.	
Cerebrospinal meningitis. Chancroid. Chicken pox Diphtheria. Gonorrhea Influenza. Lethargic encephalitis. Measles Mumps Pneumonia Poliomyelitis (infantile paralysis) Scarlet fever. Smallpox	4 196 286 242 22 3 208 40 517 23	13 9 3 90 8	395 170 166	129 2 5 21	
Syphilis. Tuberculosis Typhoid fever. Whooping cough.	130 187 137 185	90 16 7	229 175 111 149	112 32 11	

### Other Diseases.

During the month of October, 1923, six cases of dysentery, with two deaths, one case of German measles, and four cases of septic sore throat were reported in the Province of Ontario, Canada.

#### CUBA.

#### Communicable Diseases.

Communicable diseases have been reported in Cuba as follows:

Habana.

·	Oct. 21-	Remain- ing under	
Disease.	New cases.	Deaths.	ment Oct. 31, 1923.
Diphtheria. Leprosy	5	1	3 15
Majaria	59	4	1 62 1
Paratyphoid fever Poliomyelitis (infantile paralysis) Scarlet fever Typhoid fever	1 6 11	3	7 226

Population, 380,693.

From the interior, 25; from abroad, 1.
From the interior, 16.

#### Provinces.

	Ī	<u>.</u>		Sept. 11	-20, 1923.			<del></del>
Province.	Chicken pox.	Diph- theria.	Malaria.	Measles.	Paraty- phoid fever.	Scarlet fever.	Small- pox.	Typhoid fever.
Camaguey		7 1 1 1 2	28 50 41 4 5		2 8	i		12 33 7 12 9
Total		12	128		16	1		92
	•		Sept. 21-	30, 1923.				
Camaguey	1	9 3 2 2	23 29 36 3 1	2	1 1 4			8 38 5 5 8 11
Total	1	16	92	2	15			75

### GUADELOUPE (WEST INDIES).

### Smallpox (Reported as Alastrim).

Under date of October 24, 1923, smallpox (reported as alastrim) was reported present in epidemic form in the Island of Guadeloupe, West Indies. The disease was stated to be present in 18 localities having a total population of 108,000. At the town of Basse Terre, 1,000 cases were reported present during the week ended October 20, 1923.

#### ITALY.

### Quarantine Against Melilla, Morocco.<sup>2</sup>

Information dated October 22, 1923, shows that arrivals at Italian ports from Melilla, Morocco, have been made subject to quarantine restrictions against plague.

#### LATVIA.

### Communicable Diseases—August, 1923.

Communicable diseases were reported in the Republic of Latvia during the month of August, 1923, as follows:

Disease.	Cases.	Remarks.
Chicken pox Diphtheria Malaria Measles Scarlet fever Smallpox Typhoid fever	11 92	
Typhus fever. Whooping cough.	19	Paratyphus fever: Cases, 11.

Public Health Reports, Nov. 2, 1923, p. 2561, and previous issues.
 Public Health Reports, Oct. 26, 1923, p. 2500, and Nov. 9, 1923, p. 2698.

### Dysentery—Leprosy—August, 1923.

During the same period 26 cases of dysentery and 5 cases of leprosy were reported in the Republic of Latvia.

#### MOROCCO.

### Plague-Melilla-Spanish Zone.1

Information dated October 23, 1923, shows the occurrence of two new cases of plague in the district of Melilla, Spanish Zone, Morocco. The cases occurred at the camp of Dar-Quebdani.

#### SWITZERLAND.

#### Poliomyelitis (Infantile Paralysis)-Lucerne.

From May 1 to October 15, 1923, 29 cases of poliomyelitis (infantile paralysis), with 5 deaths, were reported at Lucerne, Switzerland. Of these, six cases with two deaths occurred in adults. Four cases terminated in permanent disability.

#### UNION OF SOUTH AFRICA.

### Epidemic Cerebrospinal Meningitis—Witwatersrand. 2

During the week ended September 29, 1923, 42 cases of epidemic cerebrospinal meningitis were reported in the Witwatersrand Area. Union of South Africa. Of these, 34 cases were in natives, 3 in the mixed colored population, and 5 cases in the white population.

#### 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 list of countries included or the figures for the particular countries for which reports are given.

### Reports Received During Week Ended November 23, 1923.3 CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.					
India Madras. Rangoon.	Sept. 30-Oct. 6 Sept. 23-29	1 1	2 1	Sept. 2-8, 1923: Cases, 1,981; deaths, 1,116.					
PLAGUE.									
Bolivia: La Paz China: Hongkong. India Madras Presidency. Rangoon. Morocco: Melilla (District). Palestine: Haifa.	Sept. 1-30	2 265 10 2	1 4 163 8	Sept. 2-8, 1923: Cases, 4,343; deaths, 2,828.  Occurring in camp at Dar- Quebdani, Spanish Zone.					

Public Health Reports, Oct. 26, 1923, p. 2500.
 Public Health Reports, Nov. 2, 1923, p. 2654, and subsequent issues.
 From medical officers of the Public Health Service, American consuls, and other sources.

# Reports Received During Week Ended November 23, 1923—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Bolivia:	Aug. 1-Sept. 30	5	6	·
Brazil: Rio de Janeiro	Sept. 30-Oct. 20	5	ļ	
Manitoba— Winnipeg Ontario	Oct. 21-27	1		Oct. 1-31, 1923: Cases, 23.
China: Foochow	Sept. 23-Oct. 6			Present.
Hongkong Manchuria— Harbin	Sept. 9-15 Sept. 24-30	11 5	10	
Colombia: Barranquilla	Oct. 15-21		1	Oct. 24, 1923: Epidemic.
Basse Terre. India	Oct. 14-20			1,000 cases present. Sept. 2-8, 1923: Cases, 926; deaths,
MadrasRangoon	Sept. 30-Oct. 6 Sept. 23-29	3 4	1	195.
East Java— Soerabaya Latvia.	Sept. 2–15	64	6	Aug. 1-31, 1923; 1 case,
Portugal: Oporto	Oct. 14-27	17	13	
BarcelonaValencia	Oct. 11-17 Oct. 14-20	7	1 2	
Syria: Damascus Union of South Africa:	Sept. 25-Oct. 2	7		
Cape Province	Sept. 16-29	••••••		Outbreaks.
	TYPHUS	FEVER	<b>.</b>	
Rulgaria	Aug. 1-Sept. 30	10	2	
SofiaChina:	Sept. 23–29			Paratyphus fever, cases, 2.
LatviaPalestine:	Sept. 25-Oct. 1	1		Aug. 1-31, 1923: Cases, 19. Paratyphus: Cases, 11.
Union of South Africa: Cape Province	Sept. 16-22 Sept. 23-29	2		Outbreaks. Do.

# Reports Received from June 30 to November 16, 1923.<sup>1</sup> CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo	Sept. 16-22		2	
China:	1.	l		
Canton	Aug. 26-Sept. 1	1		
Foochow	July 29-Sept. 1	- <i>-</i>		Present.
Shanghai	Aug. 20-Sept. 2	2	28	Cases, foreign; deaths, native.
Do	Aug. 28-Sept. 16		12	Reported moderately prevalen
				Aug. 28.
India		<b></b>	l	Apr. 15-June 30, 1923; Cases
Bombay	June 3–30	34	23	19,470; deaths, 14,608. July 1-
Do	July 1-Sept. 15	129	75	Sept. 1, 1923; Cases, 16,630
Calcutta		371	300	deaths, 9,411.
Do		212	165	
Madras	June 3-30	2		
Do	July 1-Sept. 29	18	8	
Rangoon		18	15	
Do	July 1-Aug. 25	34	31	

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

# Reports Received from June 30 to November 16, 1923—Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China				Oct. 1-31, 1923: Cases, 92; deaths, 53. Preceding month: Cases 24; deaths, 14. October, 1921: Cases, 100; deaths, 61. Nov. 1-Dec. 31, 1922; Cases, 161; deaths, 59 (native); European, 1, 2006.
City— Saigon	May 20-June 30	12	ł	I case. Including 100 square kilometers of surrounding country.
Province—	July 1-28	. 13	1	Do.
Annam Do	Sept. 1-Dec. 31 Feb. 1-28	179	66	Epidemic.
Cambodge	Sept. 1-Dec. 31do	47 51 19	8	
Iraq (Mesopotamia): Bagdad Basrah	Sept. 3-17 Aug. 8-Sept. 17	46 564	37 422	Port declared infected since Aug. 6, 1923.
Philippine Islands: City—				0, 1320.
Manila Province— Bulacan	June 10-16 May 17-23	2	1	Death in foreign case from Ching- kang, China.
Capiz Cebu Cotobato Laguna	May 27-June 2	1 1 1	1 1 1	
Mindoro	Apr. 8-14. May 6-June 9. Aug. 5-11 Mar. 25-31 July 22-28. June 24-30.	2 2 1 1 2	1 2 1 1 2	
Viscaya	July 7-14	1	1	Jan. 1-May 15, 1923: Cases, 10.
Bangkok Do	May 13-June 30 July 1-Sept. 15	10 6	11 3	
	PLA	GUE.		
Algeria: Algiers	Aug. 11-20	2	1	Actual dates of occurrence, Aug. 16 and 17, 1923.
St. Eugène	Aug. 1-20	2	2	Locality 5 miles north of Algiers.
Sydney	June 30	1	1	•
St. Michael Island Brazil:	May 6-26	12	5	In one locality.
BahiaPorto AlegreBritish East Africa:	Sept. 2-15	3	2	Jan. 1-Mar. 31, 1923; Deaths, 19.
Kenya— Kisumu Do Mombasa	June 10-16 Aug. 5-11 Aug. 19-Sept. 15	2 17	1 1 8	Plague rats, 6.
Kilindini Area Tanganyika Do	May 6-June 2 July 5-21.	3 20	3 12	Plague rats, 12. Territory.
Uganda Canary Islands: Las Palmas	Apr. 1-30	7	5	
Teneriffe	Nov. 6	18 65	19 57	Present.  Plague rats, 38.  Plague rats, 26. One plague-
China:	Tally a coper ad	۳,	•	infected cat.
AmoyDo	May 13-June 25 July 1-Sept. 29		10 18	
FoochowDo	May 27-June 23			Present. Reported as endemic.

## Reports Received from June 30 to November 16, 1923-Continued.

#### PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued. Hongkong. Do. Manchuria—	July 1-Sept. 1	1	32	
Yakoshih			1	Station on Eastern Chinese Railway. Occurring in tarabagan (marmot) hunter. Bubonic.
Nanking Do Ecuador:			1	Rodent plague present. Do.
GuamoteGuayaquil	Aug. 1-15			Country district.  May 16-June 30, 1923: Rats examined, 13,800; found infected,
Do		7	3	examined, 13,450; found infected, 23. Aug. 16-30, 1923; Rats taken, 54,304; found infected for
City—				not reported.) Jan. 1-June 21, 1923: Cases, 1,051; deaths, 548. May 1-29: Cases, 345. Jan. 1-June 24, 1923: Cases, 1,069. Jan. 1-Oct. 4, 1923: Cases, 1,360; deaths, 661.
Alexandria	Jan. 7-June 24 July 1-Sept. 30	35 17	15	May 1-29, 1923: Cases, 14.
Port Said	Jan. 7-June 24 July 1-Sept. 30	24 30	3 12 5	May 1-29, 1923: Cases, 13.
Do	July 16-Aug. 30	. 11	5 7 1	May 1-29, 1923: Cases, 3.
Assiout Assiout Benisouef Fayoum Garbieh Geizeh Keneh Menoufieh Minieh	May 1-29	64 7		Deaths not reported.
Fayoum	do	14		Do.
Geizeh	do	2 3		Do. Do.
Girgeh	do	123		Sept. 26: One case.
Menoufieh	do	· 34		Deaths not reported. Sept. 15: Cases, 1; deaths, 1.
Minieh	do	46		Deaths not reported.
Paris	Aug. 13	1		Published in Public Health Reports, Sept. 14, 1923, pp. 21 and 2190.
Greece: Syra Island Hawaii:	Sept. 10	•••••		Present.
Hamakua	······································	•••••		Plague-infected rats: Pohakea, May 23, 1923, 1 rat; vicinity of Pacific Sugar Co. mill, June 2, 1 rat; Aug. 2, 1 rat at Hamakua Mill Co. plantation. Aug. 16, plague rat found at Kapulena.
Honokaa	Sept. 21	1	. 1	July 20, 1923: One plague rat; July 30, 2 plague rats; Honokaa Sugar Co. mill and Honokaa
India Bombay Do	Apr. 29-June 20 July 1-Sept. 22	503 39	411 31	Apr. 29-June 23, 1923: Cases, 5,783; deaths, 4,481. July 1-Sept. 1, 1923: Cases, 8,798; deaths, 5,701.
CalcuttaDo	May 6-June 9 Aug. 12-Sept. 15	13	13 2	deavis, o, voz.
Karachi	May 13-June 30	110	85	Plague rats, 5.
Do Madras Presidency	July 1-Oct. 6 May 13-June 30	118   254	103   141	
Do	July 1-Sept. 29	3, 125	1,890	
Rangoon	May 13-June 30 July 1-Sept. 29 May 6-June 30 July 1-Sept. 29	309	271	O-4 1 Dec 21 1000 Game 045
Indo-China		••••••		Oct. 1-Dec. 31, 1922: Cases, 245; deaths, 237. Sept. 1-30, 1922:
City— Saigon	. 1	5	5	70 cases, 68 deaths. Including 100 square kilometers of surrounding country.
Do	July 1-7	1 1	1	Do.

### Reports Received from June 30 to November 16, 1923—Continued.

#### PLAGUE—Continued.

Indo-China—Continued	s.	Remarks.	Deaths.	Cases.	Date.	Place.
Annam Oct. 1-Dec. 31						Indo-China—Continued.
Do.   July   -Aug. 3   152	_ :	D		40	Oct 1 Dec 21	
Do.   July   -Aug. 3   152   152   152   152   152   152   153   154	o deaths.	Freeeding month, 15			Jan. 1-Feb. 28	
Do.   July   -Aug. 3   152   152   152   152   152   152   153   154	1 deaths.	Preceding month, 51	145	145	Oct. 1-Dec. 31	Cambodge
Tang (Mesopotamia):   Bagdad			152		Jan. 1-Feb. 28	Do
Tang (Mesopotamia):   Bagdad	4 cases, 2	deaths month,	3		Jan. 1-Feb. 28	Do Comin China
Bagdad		deaths.	٠	"	Jan. 1-100. 20	
Java   Province   Djokjakarta   June 1-30.   July 1-Aug. 31   1923: Do   July 1-Aug. 31   231   135   136					May 1-June 30	Bagdad
Province	Deaths 010	Mart Tune 20 10221 7	2	4		
Doc   July   -Aug. 31	923: Deaths.	July 1-Aug. 31, 192				
Redoc.   July   -Aug. 31   231   Pekalongan   June   -30.   48   Do		976.			June 1-30	Djokjakarta
Testinding					July 1-Aug. 31	D0
Do.   July 1-Aug. 31   165					July 1-Aug. 31	Do
Samarang   Junie 1-30.   143   143   143   143   144   145					June 1-30	Pekalongan
Soerakarta		, in the second second			July 1-Aug. 31	Do
Soerakarta		·			July 1-Aug. 31	Do.
Soerakarta					June 1-30	Soerabaya
Do		35 10 1000 73 13			Aug. 1-31	Do
Madagascar	emic in 5 dis-	May 16, 1923: Epiden			Inly 1_Ang 31	Soerakarta
Tananarive town	23: Cases, 81.	Apr. 1-June 30, 1923:			July 1-11ug. 01	
Tananarive town	1-Aug. 15,	deaths, 81. July			Apr. 1-June 30	Tananarive Province
Do.   July 1-Aug. 15   6   5   May 4-21, 1923: 2 cases	aths, 9.	1923: Cases, 11; deat			July 1-Aug. 15	
May 1-21, 1923: 2 cases   May 4-21, 1923: 2 cases					July 1-Aug. 15	Do
Port Louis	es.	May 4-21, 1923: 2 cases				Mauritius Island
Tampico				1	May 4	Port Louis
Morocco: Larache (El Araish).   Nov. 2.   In Spanish zone. Present.	plama mt	Apr 15_91 1092- 1 -				
Morocco: Larache (El Araish).   Nov. 2.	Dona Cecelia.	Aug. 8, 1923; At Do		•••••		1 ampico
Moreco:   Larache (El Araish).   Nov. 2.     In Spanish zone. Prese Meilla.   Sept. 18-24   1   Jaffa   June 19-July 16   10   1   Bubonic and septicement of Do.   July 1-31   4   2   1   June 30   15   3   1   June 30   3   2   July 1-Sept. 30   4   2   2   2   3   3   3   3   3   3   3	ico 1 nlagua.	a suburb of Tampico				
Moreco:   Larache (El Araish).   Nov. 2.     In Spanish zone. Prese Meilla.   Sept. 18-24   1   Jaffa   June 19-July 16   10   1   Bubonic and septicement of Do.   July 1-31   4   2   1   June 30   15   3   1   June 30   3   2   July 1-Sept. 30   4   2   2   2   3   3   3   3   3   3   3	From Jan.	infected rat found.				
Moreco:   Larache (El Araish).   Nov. 2.     In Spanish zone. Prese Meilla.   Sept. 18-24   1   Jaffa   June 19-July 16   10   1   Bubonic and septicement of Do.   July 1-31   4   2   1   June 30   15   3   1   June 30   3   2   July 1-Sept. 30   4   2   2   2   3   3   3   3   3   3   3	1.5.	infected rats found.				
Peru						
Part	resent.	In Spanish zone. Pre		• • • • • • • •	Nov. 2	
Part	-Ouebdani	In parrison of Dar-O			• • • • • • • • • • • • • • • • • • • •	Palestine:
Jaffa June 19-July 16. 10					Sept. 18-24	Haifa
Locality	mic.	Bubonic and septicem	1	10	June 19-July 16	Jaffa
Ayabaca	1-Sopt 20	May 1-June 30, 1923:	• • • • • • • • •		•••••	Locality—
Callao.	ths. 24.	1923: Cases, 43: death	13	15	May 16-June 30	A vabaca
Do.	-,			4	July 1-31	
Canete       May 16-June 30       3       2         DO       July 1-Sept. 30       7       4         Cerro Azul       May 1-31       3       1         Chiclayo       May 1-June 30       9       2         Do       July 1-Aug. 31       6       4         Cutervo       May 1-15       2       1         Guadaloupe       Sept. 1-30       1         Huacho       July 1-31       1       1         Huaral       June 1-30       2       2         Do       July 1-Sept. 30       3       1       1         Lima (city)       May 1-31       17       8       1       8         Lima (country)       May 1-31       7       4       4       8         Do       July 1-Sept. 30       3       2       2       2       2       2       2       2       2       2       2       2       3       2       3       1       4       3       4       3       4       3       4       3       5       2       2       2       3       1       4       3       2       3       1       4       3       3       2 <td< td=""><td></td><td></td><th></th><td>5</td><td>May 1-June 30</td><td></td></td<>				5	May 1-June 30	
Chiclayo.     May 1-June 30.     9     2       Do.     July 1-Aug. 31.     6     4       Cutervo.     May 1-15.     2     1       Guadaloupe.     Sept. 1-30.     2     1       Huancabamba.     May 1-June 30.     34     25       Huaral.     July 1-31.     1     1       Huaral.     July 1-30.     2     2       Do.     July 1-Sept. 30.     3     1       Lima (city)     May 1-31.     17     8       Lima (country)     May 1-31.     7     4       Do.     July 1-Sept. 30.     3     2       Mollendo.     June 1-30.     1     1       Reque.     Aug. 1-31.     1     1			2	3	May 16-June 30	Canete
Chiclayo.     May 1-June 30.     9     2       Do.     July 1-Aug. 31.     6     4       Cutervo.     May 1-15.     2     1       Guadaloupe.     Sept. 1-30.     2     1       Huancabamba.     May 1-June 30.     34     25       Huaral.     July 1-31.     1     1       Huaral.     July 1-30.     2     2       Do.     July 1-Sept. 30.     3     1       Lima (city)     May 1-31.     17     8       Lima (country)     May 1-31.     7     4       Do.     July 1-Sept. 30.     3     2       Mollendo.     June 1-30.     1     1       Reque.     Aug. 1-31.     1     1			4	7	July 1-Sept. 30	Do
Cutervo. May 1-15. 2 1 Guadaloupe. Sept. 1-30. 34 25 Huancabamba. May 1-June 30. 34 25 Huacho. July 1-31. 1 Huaral. June 1-30. 2 2 Do. July 1-Sept. 30. 3 1 Lima (city) May 1-31. 17 8 Do. July 1-Sept. 30. 14 8 Lima (country) May 1-31. 7 4 Do. July 1-Sept. 30. 3 2 Mollendo. June 1-30. 3 2 Mollendo. June 1-30. 1 1 Reque Aug. 1-31. 1			1	3	May 1-31	Chiologo
Guadaloupe. Sept. 1-30			4	6	July 1-Aug. 31	Do
Guadaloupe Sept. 1-30					May 1-15.	Cutervo
Do		Present.			Sept. 1-30	Guadaloupe
Do			25		May 1-June 30	Huancapampa
May 1-31   17   8   country estates.   Do			2	2	June 1-30	Huaral.
May 1-31   17   8   country estates.   Do	Present on	Sept. 1-30, 1923: Pr	1	3	July 1-Sept. 30	Do
Reque Aug. 1–31		country estates.	8		May 1-31	Lima (city)
Reque Aug. 1–31					May 1-31	. Lima (country)
Reque Aug. 1–31			2	3	July 1-Sept. 30	Do
Salayerry May 1-June 30 11 3			1		and 1-20	Mollendo
			3		Aug. I-dl	Salaverry
_ Trujillodo			3		May 1-June 30	SalaverryTrujillo
Russia	Few cases in	Jan. 1-May 15, 1923: Fe				Russia
Senegal: Far East regions.		Far East regions.	į	ł		Seneral:
Dakar July 1-31 4 Reported to have come fi	ne from port	Reported to have come	4	4	July 1-31	
of Rufisque, Senegal.	al.	of Rufisque, Senegal.	- 1	1		
Rufisque		rresent.			Aug. 0	runsque!

## Reports Received from June 30 to November 16, 1923—Continued.

#### PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Siam: Bangkok. Do Siberia	Apr. 29–June 30 July 1–Sept. 16		30 11	Sporadic cases of plague reported
HaramhorStation No. 83	May 6	1	1	yearly in localities vicinity of stations Matsievskaya and Bor- zia, Transbaikal Railway. Village in zone of endemic tara- bagan (marmot) plague, Trans- baikal region. Station on Transbaikal Rail-
Soktu				way. Marmot plague during recent years. Do.
Singapore	May 6-June 30 July 22-Sept. 22	6	8	
BeirutDoTurkey:	May 12-June 20 July 1-Sept. 30	3 7	1	
Constantinople	Aug. 19-Sept. 22		2	On Aug. 16, 1923, 2 cases reported
S. S. Crewe Hall	Oct. 15	1		At Catania, Italy. Patient embarked at Port Said, Egypt. Vessel left Vizacapatam, India, Aug. 29; at Colombo, Ceylon, Sept. 12; Aden, Sept. 23; Port Sudan, Sept. 26; sailed for New York Oct. 15, 1923.

#### SMALLPOX.

	1	1		1
Algeria:	į.	l		1
Algiers	May 1-31	2	1	
				i
Do	July 1-Aug. 10	1 3		
Arabia:		ļ		
Aden	May 27-June 2		2	
Do	July 8-Sept. 30	8	2	
Austria:	1	1	ł	
Vienna	July 29-Aug. 4	1	İ	
Azores:	vary zo stage zeess			
St. Michael Island	T1 15 01	7		Mild.
	July 15-21	7		MIIG.
Boliyia:_	l	1		
La Paz	Apr. 1-June 30	2	3	
Brazil:	_	1		
Bahia	Aug. 19-Sept. 22	6		
Manaos		, ,		Year 1921: Cases, 2; year 1922, 1
Pernambuco	May 6-June 16	5		case.
	Train 1 Count 1	1 48		case.
	July 1-Sept. 1	46	4	
Rio de Janeiro	May 13-June 23		3	
Do	July 15-Sept. 29	41	10	
Rio Grande do Sul				Jan. 1-Mar. 31. 1923; Present with
				some mortality.
British East Africa:			1	
Kenya-				
Meniya—	Ma- 00 00		1	From vessel from Bombay.
Mombasa	May 20-26	1		
Tanganyika	Apr. 20–June 9	3		Territory.
Do	July 1-28	27	6	Do.
Uganda—	-			
Entebbe	Apr. 1-30	4		
Zanzibar		-		July 1-31, 1923; Cases, 7; deaths, 3,
Canada:				vary 1 01, 1020, 02000, 1, 4040125, 04
Alberta—				
	Mam 07 Towns 0			Infection from Dear Lades Mant
Calgary	May 27-June 2	1		Infection from Deer Lodge, Mont.
British Columbia—			1	
.Vancouver	May 27-June 30	33	1	
Do	July 1-Sept. 15	15	1	
Victoria	Aug. 5-25	2		
Manitoba-		-		
Winnipeg	June 3-30	1		
Do		5	•••••	
	July 1-Oct. 20	Ð		
New Brunswick—		_		
Kent County	July 1-7	1 1		

# Reports Received from June 30 to November 16, 1923—Continued.

#### SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Ontario London	T-1- 17 01		•[	June 1-30, 1923: Cases, 13. July
Toronto	July 15-21 June 24-30	1 3		1-Sept. 30, 1923: Cases, 48.
Do	July 15-21	i		1
Quebec—	1 - 4.9 10 21	1 *		i i
Quebec	June 10-16	. 1		Varioloid.
Saskatchewan-				-
Moose Jaw	July 8-14	. 1		.[
Regina Do	June 24-30	3		
Ceylon:	Oct. 7-13	1 -		•
Colombo	May 6-June 2	. 23	1	Annual Control of the
Chile:		1	-	· · · · · · · · · · · · · · · · · · ·
Concepcion	May 22-June 11		. 3	June 1-30, 1923: Cases, 2. July 1-31, 1923: 1 death.
Dō	Sept. 1-17		. 2	1-31, 1923: 1 death.
Talcahuano Valparaiso	Aug. 12–18 May 7–June 23	1		Landed from vessel.
v auparauso	may 1-June 20	6	121	June 10-16, 1923: 29 cases reported from 2 districts.
Do	July 1-28	12	10	July 30, 1923: 25 cases in lazaretto.
200000000000000000000000000000000000000	, vary 2 20	1	1 20	Aug. 6: 20 cases. Aug. 14: 60
		i	1	cases present.
China:				_
Amoy	May 13-June 23 July 1-Sept. 29		.  3	June 19-25, 1923: Present.
DoAntung	July 1-Sept. 29	·····i	•	Present.
Canton	May 14-20	1 1		June 1-30, 1923: Present. July
Controll	•••••			June 1-30, 1923: Present. July 1-31, 1923: Present.
Chungking	May 13-June 30			Present and endemic.
Do	July 1-Sept. 29			Do.
Foochow	May 13-Sept. 8 Apr. 29-June 30	····-		Present.
Hongkong	Apr. 29-June 30	98	82	
Do Manchuria—	July 1-Sept. 1	55	49	
Dairen	May 21-27	1	į	
Harbin	May 7-June 24	5		
Do	July 1-Sept. 2	6.		27.34
Mukden	May 13-20 May 13-June 23	1		
Nanking	May 13-June 23	• • • • • • •		Do.
Do Shanghai	June 24-Sept. 22 May 21-June 3	······		Do. Foreign.
Do	July 2-Aug. 26	i	4	Cases, foreign; deaths, Chinese.
Chosen (Korea):				,,,,,
Chemulpo	May 1-31	1		
Fusan Do	May 1-June 30 July 1-31	4 22		
Gensan	May 1-31	1	6	
Seoul	May 1-June 30	42	13	
Do	July 1-Aug. 31	7	9	
Cuba:				_
Antilla	July 8–14		2	From Preston.
Czechoslovakia		• • • • • • •	• • • • • • • • • • • • • • • • • • • •	JanMar., 1923: Cases, 15. Apr
Bohemia	Jan. 1-Mar. 31	15	4	June, 1923: Cases, 16; deaths, 4.
Ecuador:			- 1	*
Alausi	July 16-31	3		
Bahia	Sept. 1-15	4		
Esmeraldas	Aug. 16-Sept. 15 May 16-31	5		
Guayaquil	Sept. 1-15	1 8		
Monte Cristi (Manabi)	do	20		May 16-30, 1923; Fresent.
Riobama	May 16-30	ĩ	1	may 10 00, 1020, 11cocnes
Rocafuerte	do			$\mathbf{D_0}$ .
Santa Ana	Sept. 1-15	10		
Vinces	do			Present in district.
Zaruma (El Oro) Egypt:	May 16-30	•••••		Present.
Cairo	Mar. 12-July 1	24	8	
Esthonia.		<u>-</u> :.		June 1-30, 1923: Cases, 4. Aug.
1				1-31, 1923: Cases, 2.
Finland				May 1-15, 1923: 1 case. July 2-31,
l	1		İ	1923: 1 case. Aug. 1-31, 1923:
French Guiana	Ì			2 cases.
ETCHOL GUIGHO				NovDec., 1923: Present. June 6, 1923: Present.
Cayenne				Year 1922: Present.
0.000.0				

# Reports Received from June 30 to November 16, 1923—Continued.

### SMALLPOX-Continued.

	<del>,</del>	,		
Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain:				
Birmingham	June 18-30	. 3		. Present.
Bristol	June 28			Present.
Cardiff	June 3-30	6		
Gloucester	June 23			. 123 cases reported in hospital;
Do	July 12	. 19		present in rural districts. July 15, 1923: Present. Aug. 9, 1923; 33 cases in isolation hospital; two weeks previously about
London	Scpt. 9-29 June 3-9	5	1	250 cases present in hospital. Sept. 22, 1923: Additional cases in Middlesex County. May 1-31, 1923: Cases, 211.
Do	July 8-Sept. 22	â		Hay 1-01, 1520. Cases, 211.
Sheffield.	Sept. 16-22	3		1
Greece:	Copu. 10	1		
Athens	May 1-31	53	1	
Patros	May 1-31	i	. 19	
PatrasSaloniki	Apr 30-May 20	2	2	
Do	June 25-July 8	2	3	· ·
Guadeloupe (West Indies)		1 -	•	Tuly 22-Aug 4 1092: Present in
anadelonine ( 44 est maies)		l		July 22-Aug. 4, 1923: Present in
. Basse Terre	Aug. 17-Oct. 13			epidemic form. (Reported as alastrim.) Aug. 17, 1923: Stated to be officially declared present. Sept. 14-29: Epi- demic generally diffused. Oct. 13, 1923: Epidemic. Present.
Pointe à Pitre	Aug. 17-000. 13			Fatimated from 0.000 to 2.000
romte a rate	Aug. 11			Estimated from 2,000 to 3,000 cases. Sept. 2-8, 1923: 1,500 cases present: 8 deaths reported.
Hungary				July 15-Aug. 4, 1923: Cases, 28. Apr. 15-June 30, 1923: Cases, 8,112; deaths, 2,933. July 1- Sept. 1, 1923: Cases, 8,403;
India				Apr. 15-June 30, 1923; Cases,
Bombav	Apr. 22-June 30	298	141	8.112: deaths, 2.933. July 1-
Do	July 1-Sept. 22	72	36	Sept. 1. 1923; Cases. 8.403;
Calcutta	May 13-June 9	12	9	deaths, 2,084.
CalcuttaDo	July 1-Sept. 22 May 13-June 9 July 1-Sept. 8	19	14	400010, 1,001
Karachi	May 13-June 30	24	8	
Do	Inly 1-Oct 6	16	8 5	
Madras	May 13-June 23	91	16	
.Do	July 8-Sept. 29	55	16	
Rangoon	May 13-June 23 July 8-Sept. 29 May 6-June 30	125	67	
Do	July 1-Sept. 15	46	19	
Indo-China				Nov. 1-Dec. 31, 1922: Cases, 234;
City—	1			deaths, 68.
Saigon	May 20-June 30	34	23	Including 100 surrounding square
Do	July 1-28	31	18	kilometers. Do.
Provinces—	Ť			
Annam	Nov. 1-30 Jan. 1-Feb. 28	3	1	
Do	Jan. 1-Feb. 28	10	1	
Cambodge	Nov. 1-Dec. 31	97	41	
Do Cochin-China	Jan. 1-Feb. 28	63 125	17	
Do Do	Nov. 1-Dec. 31 Jan. 1-Feb. 28		34	
Do	Feb. 1-28	231	67	A
Laos	Dec. 1-31	9	1	A few cases.
Tonkin	Dec. 1-31			
Do	Jan. 1-Feb. 28	69	13	
raq (Mesopotamia): Bagdad	Apr. 1-June 30	32	11	
Do	July 31-Sept. 4	13		
taly:				
Leghorn	Sept. 17-23	6		
Turin	May 28-June 3	1		
Do	May 28-June 3 July 2-15	2		
amaica				May 27-June 30, 1923: Cases, 226; July 1-Oct. 13, 1923: Cases, 414.
Kingston	May 27-June 30	39		July 1-Oct. 13, 1923; Cases, 414,
KingstonDo	July 1-Oct. 13	47		(Reported as alastrim.)
apan:	1			/Porton an amountain)
Kobe	May 28-June 10	2		
Do	July 2-8	1		
ava:	•	- [	1	
East Java		l .		Aug. 26-Sept. 1, 1923: Cases, 36;
Soerabaya	Apr. 22-June 30	187	22	deaths, 3.
Do	July 15-Aug. 25	64	15	•
Soerakarta				July 31, 1923: Epidemi <b>c.</b>
•				

## Reports Received from June 30 to November 16; 1923—Continued.

# SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java—Continued.				
West Java— Batavia	. May 5-June 8	17	3	Province.
Do	. June 30-Sept. 7	3	ĭ	Do.
Latvia			· ·····	Apr. 1-May 31, 1923: Cases, 8.
Martinique				May 26-Sept. 29, 1923: Present.
Aguascalientes	. July 8-14	<u>.</u>	. 1	ľ
ChihuahuaGuadalajara	June 11-24 July 22-Sept. 22	7	10	June 1-30, 1923: Cases, 15; deaths,
Mexico City	. May 19–June 30	164	ļ	Including municipalities in Federal district.
Do	. July 1-Oct. 6	204		Do.
Palestine: Jaffa Persia:	June 5–11	1		
Tabriz	Apr. 1-June 30		2	District.
Teheran	Feb. 22-June 14		30	Mar. 22-June 22, 1923: Deaths, 12. June 23-July 22, 1923: Deaths, 9.
Poland			ļ	Apr. 29-June 30, 1923: Cases, 1,861; deaths, 43. July 1-Aug. 12, 1923; Cases, 20; deaths, 6.
Portugal: Lisbon	May 20-June 30	35	3	12, 1923; Cases, 20; deaths, 6.
Do Oporto	July 1-Sept. 29 June 10-30	46 6	12 3	
Do Portuguese West Africa:	July 9-Oct. 12	56	43	
Angola— Loanda Do	Apr. 1-21 July 29-Aug. 18	2	<u>2</u>	
Rhodesia (British Africa):	1 1	• • • • • • • • • • • • • • • • • • • •	_	•
Northern Rhodesia Southern Rhodesia Siam:	May 8-14 May 3-16	21 4	8 2	
Bangkok	Apr. 29-June 30	90	53	
До	July 1-Sept. 15	303	174	Apr. 22-Aug. 25, 1923: Cases, 329; deaths, 184. Sept. 8, 1923: Re ported prevalent.
Sierra Leone:				porced prevalent.
Freetown	July 16–31	1		Landed from S. S. Tsad, from Southampton via Las Palmas
Kaballa Pujehun	May 1-15 May 16-31	1		In Sembehun district.
Sambuya	Aug. 1-15	î		
Spain: Barcelona	Mary 21 Turns 6			
Do	May 31-June 6 June 28-Oct. 3		1 8	
Seville	June 28-Oct. 3 July 19-25		8 1	
Valencia Do	May 15-June 30	44	2	
Switzerland: Basel	July 1-Oct. 13	8	8	
Do	May 27-June 30 July 8-Aug. 25	8		-
Berne	May 20-June 30 July 1-Sept. 29	11		
Do Luzerne	May 1-Sept. 29	14 36		
Do	July 1-Sept. 30	18		
Zurich	May 1-June 7 July 1-Sept. 30 May 20-June 23	10		
Do Syria:	July 15-Sept. 15	9		
Aleppo	July 15-31 May 15-June 11	6 7		
Do	Aug. 16-Sept. 4	4	1	
Tunis: Bizerta	June 10-20	1	İ	
Tunis	June 11-17	i	: : : : : : : :	
Do Turkey: Constantinople.	June 26-July 1	.1		
Do	May 13-June 26 June 27-Sept. 22	····i	45 18	
Union of South Africa				May 1-June 30, 1923: Cases, 66; deaths, 1 (colored). July 1-31,
Cape Province			·····	1923: Cases, 17 (colored). May 1-31, 1923: Cases, 32 (colored). July 1-31, 1923: Cases,
•	•	•	•	10 (colored).

### Reports Received from June 30 to November 16, 1923—Continued.

# SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.	
Union of South Africa—Contd. Cape Province. Do. East London. Natal. Orange Free State. Do. Do. Transvaal.  Do. Yugoslavia. Province— Bosnia-Herzegovina. Crostia-Slavonia. Zagreb. Serbia. Belgrade. Do. Woiwodina. On vessels: S. S. Kargola. S. S. Makura.	May 6-June 30 July 1-Sept. 15 July 8-14 do Apr. 29-June 30 Sept. 9-15 July 1-Aug. 31 July 1-7 do June 24-30 July 1-7 June 10-16 July 8-14 July 1-7 May 20-26 May 26	1 4 1 2 1		Outbreaks. Do. July 1-31, 1923: 1 case (colored). Outbreaks. July 1-31, 1923: Cases, 4 (colored). Outbreaks. May 1-31, 1923: 1 case. July 1-31, 1923: Cases, 2 (colored). Outbreaks. July 1-7, 1923: Cases, 8; deaths, 1.  At Mombasa, British East Africa. Vessel arrived from Bombay, Mar. 25, 1923. Two cases in quarantine (reported as alastrim). Vessel left Victoria, B. C., Apr. 28, 1923. Touched at Honolulu. At Freetown, Sierra Leone, Africa, from European and West African ports.	
s. s. –	Aug. 12–18	1	ļ	West African ports.  Landed at Talcahuano, Chile.	
TYPHUS FEVER.					
Algeria: Algiers	May 1-June 30	66	19	July 1-Sept. 30, 1923: Cases, 6;	
Argentina: Rosario Bolivia: La Paz Do Bulgaria: Sofia Do	May 25-31  June 1-30 July 1-31  Apr. 22-June 23 July 15-Sept. 1	4 8	3 1 2 1	deaths, 6.  Paratyphus, 2 cases; 2 deaths. Paratyphus, 5 cases. Sept. 2-22,	
Canary Islands: Tenerifie Chile: Concepcion Do Iquique Talcahuano Valparaiso Do	Nov. 6	1	3 1 1 26 48	June 11, 1923: 34 cases in Salvador Hospital. July 30, 1923: 45 cases in hospital. Aug. 6: 58 cases. Aug. 12-18: 82 cases stated to be present. Aug. 25: 88 cases in Lazaretto.	
China: Antung Do Chungking Hankow Manchuria— Harbin Do Mukden Czechos:ovakia Province— Bohemia Moravia Russinia Silesia Slovakia	May 28-June 24. July 16-22. Aug. 26-Sept. 8. May 19-25. May 6-13. Aug. 27-Sept. 2. May 14-20.  Apr. 1-June 30. do. do. do. do.	12 1 1 1 2 2 2 8 8 2 98 1 1 23 1	1 1 1 2	Endemic.  JanMar., 1923: Cases, 191; deaths, 6. Apr. 1-June 30; Cases, 132; deaths, 4. Paratyphoid A, 1; paratyphoid B, 20.	

# Reports Received from June 30 to November 16, 1923—Continued: TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt:				
Alexandria	. May 14-June 24	7	5	
Do	. June 25-Sept. 16	11		Paratyphoid fever, 2 cases.
Cairo	June 25-Sept. 16 Apr. 12-June 24 June 25-July 22	144 12	29	
Do	. Aug. 3-19	12	1 9	
Port Said Esthonia.	. Aug. 3-19	. *		June 1-30 1923. Recurrent tw
23,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				June 1-30, 1923: Recurrent ty- phus, 1 case; paratyphus, 2 cases.
Finland	Sept. 16-30	- 1		Aug. 1-15, 1923: Paratyphus, 16 cases. Sept. 1-15, 1923: One case recurrent typhus. Sept.
				case recurrent typhus. Sept. 16-30, 1922: Paratyphus, cases, 22.
France:	Non 1 36 01	į		• • • • • • •
Marseille	. Mar. 1-May 31		. 3	**
Germany: Coblenz	May 27-June 2		1 1	
Do	Tuly 20_Sant 22	10		
Do Hamburg.	July 29-Sept. 22 May 20-26 July 29-Aug. 4 May 13-June 2	3		
Do	July 29-Ang. 4	ĭ		Case developed July 28 1923 at
Königsberg	May 13-June 2	2		Case developed July 28, 1923, at Emigration Hall, Hamburg.
Do	Aug. 12-15	Ī		
Stettin	May 27-June 9 Sept. 2-22	1	1	
Stuttgart	Sept. 2-22	4		
Great Britain:	_		1	
ireland—	Ang 10.95	1		
CorkGreece	Aug. 19–25	-	1	May 1-31, 1923: Cases, 876.
Athens	Мау 1-31	150	5	May 1-31, 1920. Cuscs, 670.
Do	July 22-31.		ì	
Patras	Apr. 24-June 15		30	•
Do	Apr. 24–June 15 Aug. 16–31		2	
Piræus	May 1-June 30	356	11	
Do	July 1-10	3		
Saloniki	Apr. 30-June 24	56	16	Apr. 30-May 27, 1923: Recurrent
Do Guatemala:	July 9-15	1		typhus: Cases, 3; deaths, 3.
Guatemala City	Apr. 1-June 30		5	
Hungary.	ipi. i-valie oc			Jan. 1-May 19, 1923: Cases, 318;
Budapest	Jan. 1-June 2	48	12	deaths, 36. In 11 counties.
Do	Sept. 2-8	1		
Iray (Mesopotamia):	! -			4 A
Bagdad	Apr. 1-June 30	3		
Do	Aug. 8-15	1	1	
Japan:	July 2-8.	1		•
Nagasaki	July 2-6	1		
East Java-	·			*
Soerabaya	July 29-Aug. 18	16	3	
Latvia				Apr. 1-June 30, 1923: Cases, 231;
Mexico:				Apr. 1-June 30, 1923: Cases, 231; paratyphus, 5 cases. June 1- July 31, 1923: Cases, 67; para- typhus, 1 case; recurrent ty- phus, 1 case.
Guadalajara	June 1-30	. 1		
Do	July 1-Aug. 31	2	1	w
Mexico City	May 20-June 30	75		Including municipalities in Federal District.
. Do	July 1-Sept. 29	142		Do.
Do San Luis Potosi	July 29-Aug. 4	142	i	ъ.
Palestine	20 mag			Aug. 14-20, 1923: One case, in
Jaffa	May 22-28	2		northern district.
Do	June 26-Aug. 6	5		Relapsing fever, 1 case.
Jerusalem	May 22-28	1		
Persia: Tabriz Teheran	Apr. 1-14 Feb. 22-June 14	2	4	
Do	July 1-22		i l	
Poland				Mar. 4-Apr. 7, 1923: Cases, 2,253: deaths, 172. Recurrent typhus: Cases, 33s; deaths, 6. Apr. 2:-June 30, 1923: Cases, 2,205; deaths, 177. July 1-Aug. 18, 1923: Cases, 544; deaths, 46. Recurrent typhus: Apr. 29-June 23, 1923: Cases, 337; deaths, 5. July 1-Aug. 18,1923:
			ļ	deaths, 3. July 1-Aug. 18,1923: Cases, 102; deaths, 4.

# Reports Received from June 30 to November 16, 1923—Continued. TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal: Oporto Do	June 10–16 July 1–21	1 3		
Rumania: *  Kishineff  Do	May 1-June 30 Aug. 1-31	41 10		District.
Russia  European Russia and autonomous republics.	Jan. 1-Apr. 30	93,999		Jan. 1-Apr. 30, 1923. Cases 106,854. (Corresponding period 1922: Cases, 847,5:6. Feb. 1-28, 1923: Cases, 71,577 Recurrent, Jan. 1-Feb. 28, 1923
Siberia, Caucasus, and Cen- tral Asia.	do	i .		Feb. 1-28, 1923: Cases, 17,577 Recurrent, Jan. 1-Feb. 28, 1923
Waterways and railways Spain: Barcelona	June 21–27	i	1	Cases, 43,540.
Do Madrid Do	June 21-27 Aug. 23-Oct. 3 May 1-31 July 1-31		13 1 2	
Sumatra: Medan Switzerland:	May 1-June 30		l	
Zurich	•••••			Sept. 16-22, 1923: Paratyphus fever, cases, 5.
Syria: Aleppo Do Beirut	May 20-June 16 July 15-21	4 3	2	·
Tunis:	May 1-10	3	2	
Tunis	July 9-Oct. 7	i	2	
Constantinople Do	May 13-June 26 June 27-Sept. 22	5	19 11	May 1-June 30, 1923; Cases, 230;
Cape Province				May 1-June 30, 1923: Cases, 230; deaths, 47 (colored). White-Cases, 15: deaths, 1. Total, 245 cases, 48 deaths. July 1-31, 1923: Cases, 133 (colored, 132 cases; white, 1 case); deaths, 24. May 1-31, 1923: Cases, 49 (colored); White, 5. July 1-31, 1923: Cases, 94; deaths, 21
Do Natal	Aug. 12-Sept. 15			Outbreaks.  May 1-31 1923: One case (col-
Orange Free State				ored). May 1-31, 1923: Cases, 45 (colored). July 1-31, 1923: Cases, 36: deaths, 3 (colored). One
Do Do	May 6-June 16 Aug. 12-25			Outbreaks. Do.
Johannesburg Yugoslavia	May 1-June 30		4	May 1-31, 1923: Cases, 7. July 1-31, 1923: Cases, 2 (colored). July 1-7, 1923: Cases 4.
Province— Bosnia-Herzegovina Croatia-Slavonia—	July 1-7	1		
ZagrebSerbia— Belgrade	May 27-June 2	1		
Deigrade	Aug. 12-18	1		
	YELLOW	FEVER	•	
Do	May 13-June 30 July 1-Sept. 8	25 13	6	
colombia:	June 25-Aug. 26			Present.