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THE ADMINISTRATION OF MERCURIAL PREPARATIONS IN LEPROSY

Preliminary Report I—Mercurochrome Soluble 220

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(Dr. HABOLD K. MARSHALL, because of absence from the Hospital, was prevented from collaborating in; this report. Due credit should be given him and Doctor Denney for having initiated the treatment.)

That leprosy is, in some measure, amenable to treatment, is a conclusion gaining recognition as a result of observations made during the last decade; but that a specific is known is not generally acknowledged. Methods of treatment favorably reported by one observer fail of success at the hands of another. The very numbers of medicaments used in the treatment of leprosy *de facto* suggest that no one drug or method of treatment has as yet proved to be completely satisfactory. In the last decade interest has centered largely in the administration of certain vegetable and animal oils and their derivatives. With the methods at present employed, it has been the experience in this hospital that final curative results may not be expected in a percentage sufficient to justify the exclusion of further therapeutic experimentation.

Among the remedial agents used in the treatment of leprosy, mercury early occupied a prominent position. More than 30 years ago its use was revived, the hypodermatic superseding the older methods of administration.

Brault (1), in 1898, reported on the treatment of tubercular leprosy with calomel; and (2) advocated mercurial treatment of leprosy for the reason that marked improvement had followed its use in many cases.

Haslund (3), in 1899, reported on the treatment of leprosy by the injection of *formamide de mercure*, and referred to a report of Radcliffe Crocker and to one case of Lustgarten showing considerable amelioration after injection of *sublime de mercure*.

De Luca (4), in 1903, reported two cases of leprosy treated by intravenous injection of *sublime de mercure*. He gave 12 injections of 5 mmgs. each.

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Meyer (5), in 1904, commented on the therapeutic value of mercury in leprosy and discussed several preparations—calomel, benzoate of mercury, bin-iodide, etc.

From the paucity of further reports, it is reasonable to assume that additional experimentation with the older preparations of mercury was not productive of curative results.

Renewed interest in mercury as a germicidal agent in diseases other than leprosy has recently been evoked by the introduction of mercurochrome.

Young and Hill (6), March 1, 1924, reported satisfactory results following the intravenous injection of mercurochrome in a series of seven (nonleprous) cases of septicemia.

Impressed by the action of mercurochrome in the ordinary types of septicemia, its experimental administration was determined upon to combat secondary infections in leprosy.

The first patient available for experimentation was a white woman, age 60, of the anæsthetic type, who presented a typical picture of terminal disease. She had been bedfast for eight weeks as a result of chronic osteo-myelitis of one foot, the condition gradually becoming more serious until March 6, 1924, when a gangrenous process became evident with coincident prostration from septicemia. The patient was not considered amenable to surgical intervention. She was given an intravenous injection of 35 c. c. of a 1 per cent solution of mercurochrome (by Dr. H. K. Marshall). A severe reaction followed, with chill and profuse sweating, after which occurred slight vomiting and considerable diarrhea, accompanied by mild rectal tenesmus. Within 24 hours she showed marked improvement and made request that she be given additional injections. On the third day she received a second injection consisting of 17 c. c. of 1 per cent mercurochrome, which was followed by a similar reaction and im-The unsatisfactory progress of the gangrenous foot, provement. however, continued unmodified by the treatment and the patient succumbed May 29, 1924.

While the result of this experiment was without ultimate benefit to the patient, the unexpected prolongation of her life appeared to be ample justification for further study in patients with less serious infections. Several septic cases were selected and treated with encouraging results, and it seemed, from their improved appearance, that the course of leprosy was being favorably affected.

Forty-four lepers have been given injections of mercurochrome, and each patient has now been under observation for at least a year, warranting, it is believed, the submitting of a preliminary report.

The cases selected had the following status:

Twenty patients were of the active advanced type. Of these, 10 were terminal, mutilated, and steadily approaching dissolution. In

this group of 10, 3 were semiambulant, 2 were blind, 2 were bedfast without intercurrent complication, 1 had advanced nephritis, 1 had tertiary lues, and 1 had terminal pulmonary tuberculosis. Seven active advanced lepers had ulcerating tubercles on the face, arms, and legs, and destructive laryngitis, as well as severe ophthalmia. Two were ambulant, but had destructive eye lesions. One was greatly mutilated by ulcerating fibrous nodules.

Sixteen patients had active, moderately advanced leprosy with a variety of symptoms, consisting in the main of ophthalmia, ulcerating tubercles, neuritis, laryngitis, and successive attacks of leprous fever with coincident outcroppings of evanescent tubercles.

Six patients had active leprosy of comparatively short duration. Of these, three were accustomed to periodic attacks of leprous fever, associated with neuritis and outcroppings of evanescent tubercles, two were without symptoms, aside from macules widely distributed over the body, and one had fibrous tubercles scattered over the face and trunk.

Two patients were lepers in whom the disease showed no signs of activity and had left no stigmata. These patients served, therefore, as control cases.

A standard 1 per cent solution of mercurochrome in freshly distilled and autoclaved water was prepared for each day's use. The dosage was at first calculated on a basis of 5 milligrams per kilogram of body weight, and injections were made by syringe into a cubital vein once weekly.

Within an hour after the first injection of the maximum dose the patient experienced a severe chill, followed promptly by fever ranging from 38° C. to 42° C. Nausea and vomiting ensued in from one-half hour to one hour, promptly followed by diarrhea of a rather severe nature, and, in a few instances, by rectal tenesmus. The symptoms reached a maximum intensity in a few hours and subsided almost completely within 24 hours, leaving the patient feeling better than he had felt for some time. Following the second or third injection, 57 per cent of the patients complained of salivation and aching in the gums or teeth. The distress in six patients reached the stage of severe stomatitis with marked buccal cellulitis and edema in the maxillary region. In the latter cases, injections were discontinued until the mouths returned to normal condition.

It shortly became evident that the lepers could not tolerate doses calculated at 5 milligrams per kilogram of body weight without serious discomfort and possible danger, and the routine dosage was accordingly reduced to 2.5 milligrams per kilogram of body weight, with such slight variations as were indicated by the individual's condition. As a further prophylactic measure, each patient was Phenolsulfonephthalein renal function tests failed to show evidence of damage to the kidneys as a result of mercurochrome injections in this experiment. It should be noted, however, that where definite kidney disorder was evidenced, by the presence of albuminuria or by low phenolsulfonephthalein output, the administration of mercurochrome was made with due caution.

RESULTS

Seven patients remain unchanged. Of these, one improved slightly and relapsed to his pretreatment condition; one was surreptitiously taking chaulmoogra oil and was dropped from the experiment; one had chronic nephritis and was given but 3 c. c. weekly; two were without stigmata of leprosy and showed no change; one quiescent anæsthetic and one nodular case were unchanged.

Six patients showed slight improvement. In one of these a change was evidenced by the healing of ulcerating tubercles—in one by the subsidence of an acute ophthalmia, in one by decrease in severity of neuritis, and in three by general improvement in health.

Six patients showed moderate amelioration by improvement in general health and morale, the healing of ulcers, the diminution in the severity of ophthalmia and laryngitis, and the fading in the inflammatory condition of macules.

Sixteen patients showed marked improvement either in general health or in the subsidence of certain leprous manifestations. These 16 cases appear to be of sufficient interest to warrant some individual description, which is submitted as follows:

Case No. 1, male, American, 25 years of age, active moderately advanced mixed type, with anæsthetic symptoms predominating. For several months patient had been steadily becoming worse, his most pronounced symptoms being painful ulcerations over arms and legs, inability to obtain satisfactory rest at night, and loss of 8 pounds in three weeks before treatment was started. At the end of five weeks' treatment he professed to feel fine and sleep well, appetite excellent, ulcers clean and nearly all about half healed; had returned to work as hospital orderly. At the end of five months' treatment was in excellent condition, although still evidently a case of active leprosy. Condition of leprosy at end of 12 months: Stationary; most of ulcers healed. Gain in weight, 3 pounds.

Case No. 2, male, American, 56 years of age, active advanced mixed type with nodular symptoms predominating. Had been an infirmary patient for nine months, bedfast five months and practically helpless, with no appetite, and evidently steadily approaching dissolution. After five injections, averaging 20 c. c., was remarkably improved, with good appetite and normal interest in surroundings. Began spending time daily in wheel chair and later pushing himself around without assistance; the skin began exfoliating over forearms and legs, leaving an unpigmented nearly normal skin at the site of what was formerly almost black, indurated, parchmentlike skin. At the end of five months, while still a wheel-chair patient, was largely able to care for himself and appeared to be slowly gaining strength. At the end of 12 months is somewhat stronger, able to walk short distances alone, and appears to be continuing his general improvement. In the last six months his leprosy appears to have become stationary. Gain in weight, 16 pounds.

Case No. 5, male, Greek, 46 years of age, active advanced mixed type with nodular symptoms predominating. Had been a bed patient for three months with nearly constant leprous fever, increase in permanent tubercles, loss of appetite, marked lassitude, and extremely low morale. After four injections was evidently stronger, with excellent appetite, but with very severe stomatitis which interfered with mastication, necessitating liquid diet. Morale became excellent, permanent tubercles on face were clearing up, and he was no longer bedfast. Stomatitis continued, necessitating discontinuance of treatment for five weeks, after which time he was returned to treatment calculated at 2.5 milligrams per kilogram. Five months after treatment was begun was still improving in strength and general health and his leprosy appeared to be considerably ameliorated. At the end of 12 months his general condition is one of steady improvement, the unfavorable progress of leprosy having been apparently checked. Gain in weight, 28 pounds. (Pl. I.)

Case No. 6, male, American, 26 years of age, active moderately advanced mixed type with anæsthetic manifestations predominating. Accustomed to having numerous outbreaks of evanescent tubercles accompanied by leprous fever, considerable malaise, nausea, and apparently tending toward dissolution. Had trophic ulcers of feet and hands, stubbornly resistant to routine medication. At the end of six weeks was having but a slight amount of fever and only an occasional new evanescent tubercle; many of the older ones had disappeared. At the end of five months ulcers on ankles were completely healed (Pl. II), and patient felt that his general trend was one of steady improvement. At the end of 12 months, is ambulant and is daily occupied with tasks about the hospital which require considerable physical stamina. No marked change in leprosy during the past six months. Loss in weight, 5 pounds.

Case No. 7, male, Greek, 31 years of age, active advanced mixed type with typical leprous nodules and with numerous ulcerations which may have been syphilitic. Wassermann reaction strongly positive with both the old and Kolmer techniques. Had been an infirmary patient for several months, accustomed to daily fevers and chills with both new permanent and evanescent tubercles; arms and hands swollen and painful; severe laryngitis and ophthalmia. At the end of one month, was ambulant, although still very weak and had moderate stomatitis; appeared to be generally improved. At the end of five months, showed marked general improvement, being ambulant and evidently much stronger physically, there being but slight change in his leprous condition. At the end of 12 months, is still ambulant and has gained slightly in strength, although there has been but slight improvement in his superficial ulcerations. (This patient has also had intensive antisyphilitic treatment). Gain in weight, 8 pounds.

Case No. 11, female, American, 24 years of age, active moderately advanced nodular type. At the time when treatment was started, was suffering from an acute erysipeloid dermatitis of face and both legs. Was markedly toxic, as evidenced by hyperpyrexia, nausea, and vomiting; also had a large ulcer on the right leg, of six months' duration, which had steadily become larger in spite of previous routine treatment. At the end of one month's treatment, the erysipeloid condition had practically disappeared and the leg ulcer had healed. After four months' treatment, the patient's general condition was markedly improved, leprosy ameliorated. At the end of 12 months, patient's general condition is excellent and her leprosy appears to be further ameliorated. Weight during the year was approximately stationary.

Case No. 13, male, Italian, 57 years of age, active moderately advanced mixed type with nodular symptoms predominating. For more than a year previous to treatment, had suffered from ophthalmia, with some ulnar neuritis, general malaise, poor appetite, and inability to obtain satisfactory sleep because of the ophthalmia and neuritis. At the end of one month, pain had almost completely disappeared from the eye; had suffered no neuritis; appetite was good, although suffering from moderate stomatitis. At the end of five months, eye condition continued satisfactory, although vision was unchanged; generally much improved in health. At the end of one year, his condition is but slightly changed as compared with the observations made at the end of five months. Gain in weight, 20 pounds.

Case No. 14, male, American, 32 years of age, active advanced mixed type with nodular symptoms predominating. At the time when treatment was started, patient was suffering from a large ulcer on the anterior surface of the right leg, which had existed in a relatively unchanged condition for more than a year; was subject to occasional attacks of leprous fever, with outcroppings of evanescent

tubercles. At the end of four months' treatment, the leg ulcer was nearly healed and he had but few evanescent tubercles and had made marked improvement in general health, induration in the face being less marked than formerly and the complexion more nearly normal. Approximately seven months after the beginning of treatment and two months after patient had voluntarily ceased treatment, he suffered from leprous fever, with outcroppings of evanescent tubercles and severe neuritis in both ulnar nerves and in both perineal nerves. During this attack he lost approximately 20 pounds, and, after the subsidence of the attack, regained 11 pounds, with a net loss of nine pounds in the year. Physical condition at the end of 12 months, excellent; leg ulcer completely healed, with leprosy approximately stationary.

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Case No. 16, male, French-American, 48 years of age, active advanced mixed type with nodular symptoms predominating. Had been becoming steadily worse for over a year, with painful ulcerations on the arms and legs, severe ophthalmia, and almost complete aphonia. At the end of one month, showed marked improvement, ulcers on feet having healed, those on his face having been much improved, and the ophthalmia being almost quiescent. After four months' treatment, all ulcers had healed, voice was hoarse but markedly improved, pain had disappeared, he had no new tubercles and had gained steadily in strength. At the end of 12 months, condition is approximately stationary. Loss in weight, 2 pounds. (Pl. III.)

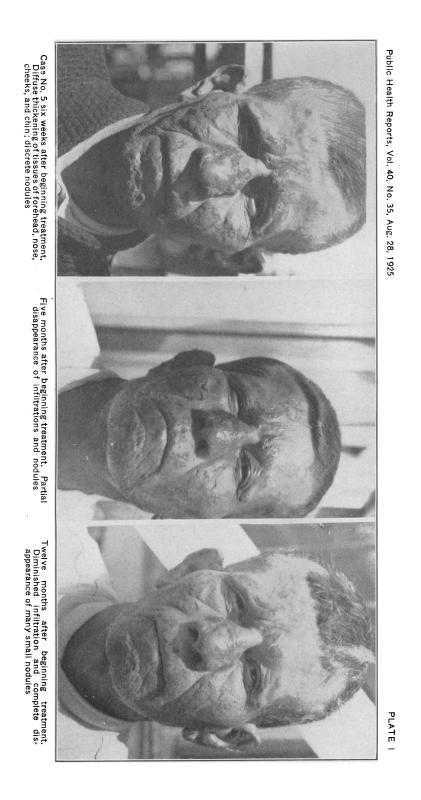
Case No. 23, female, American, 30 years of age, active advanced mixed type with tubercular symptoms predominating. Patient had been suffering for four months with severe leprous reactions consisting of chills, fever, ulnar neuritis, and outcroppings of evanescent tubercles. After six injections, was evidently much improved. Neuritis had disappeared, chills and fever gradually becoming less intense and the outcroppings of evanescent tubercles were less marked. At the end of the fourth month of treatment, suffered a relapse with recurrence of former symptoms accompanied by almost complete loss of appetite and persistent nausea and some vomiting. Treatment discontinued. Six months after the beginning of treatment, the patient began to recover strength lost during the relapse and steadily progressed satisfactorily until, at the end of 12 months, is generally in much better condition than when treatment was started. Has not suffered from neuritis, chills and fever, or evanescent tubercles. Appetite and morale excellent. General trend toward steady improvement. Although having lost 28 pounds in the first four months of treatment, since discontinuance of treatment patient has regained 15 pounds, with a net loss of 13 pounds for the year.

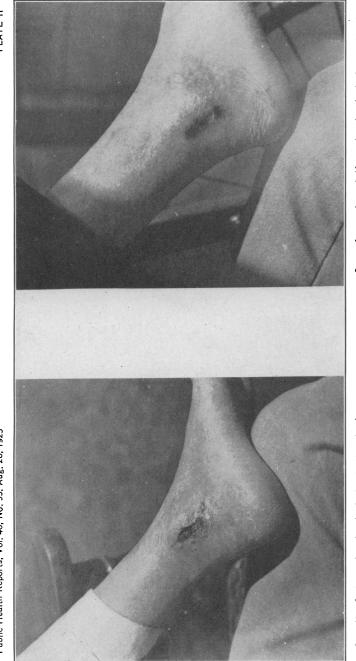
Case No. 26, male, Italian, 67 years of age, active moderately advanced nodular type, admitted to the hospital April 4, 1924, and was immediately vaccinated against smallpox and suffered a severe leprous reaction, similar in all respects to the phenomena reported by Denney and Hopkins (7), consisting of acute evanescent tubercles, considerable fever, and appearance of new permanent tubercles on face and arms. At the end of one month's treatment, there was no visible improvement in the leprosy, although patient claimed to feel markedly improved. At the end of five months' treatment, the unfavorable progress of leprosy appeared to have been checked and improvement to have begun; the leprous reactions ceased, and nodules of the semipermanent type began to disappear. At the end of a year, his leprosy is markedly ameliorated, nodules having decreased considerably in size. Gain in weight, 1 pound. (Pl. IV.)

Case No. 27, female, American, 29 years of age, active advanced mixed type with nodular symptoms predominating. Had suffered for several years with ulcerating nodules, severe ophthalmia, laryngitis, arthralgia, and severe attacks of leprous fever. After two injections of 25 c. c. each, became markedly salivated. Treatment discontinued for two weeks and reinstituted on a basis of 2.5 milligrams per kilogram. At the end of two months, was greatly improved, ulcers healing, ophthalmia diminished, arthralgia disappeared, voice less husky, and leprous fever less intense. At the end of five months, was greatly improved generally and her leprosy appeared to be stationary. At the end of the year, her general physical condition continues to be satisfactory with but slight further change in her leprosy. Gain in weight, 22 pounds.

Case No. 29, negress, 30 years of age, active early maculo-anæsthetic type; face, back, and arms covered with large, slightly raised, erythematous macules. At end of one month's treatment, macules no longer erythematous but becoming depigmented. At end of four months, macules were smooth without evidence of inflammation and regaining some pigment although still considerably lighter in color than surrounding normal skin; health continued excellent. At the end of twelve months, there has been no further progress noted in her leprosy. Gain in weight, 21 pounds.

Case No. 31, female, American, 41 years of age, mixed type with nodular symptoms predominating. Was suffering from progressive laryngitis, partial aphonia, and evanescent tubercles, but otherwise in good condition. At the end of one month's treatment, stated that she felt better, but exhibited no definite physical change. At end of four months, had no evanescent tubercles, laryngitis improved, voice stronger, and almost complete disappearance of leprous infiltrations. At end of a year, is in excellent general physical condition,





Same, four and one-half months after beginning treatment. Complete repair

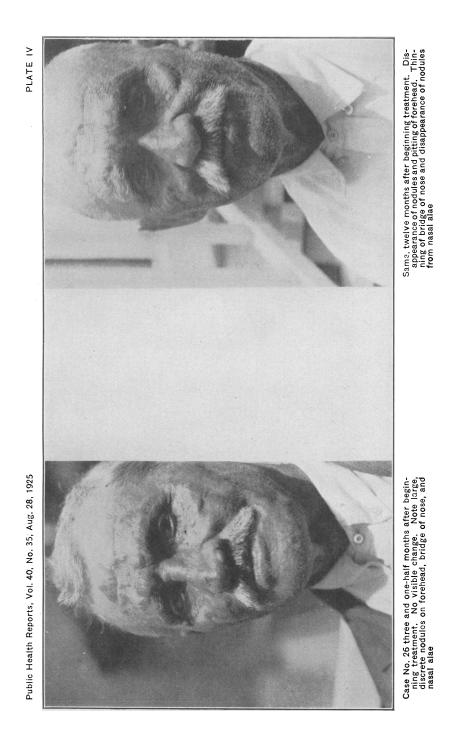
Case No. 6 six weeks after beginning treatment. Leprous ulcer, showing repair in progress

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Case No. 16 four weeks after beginning treatment. Ulcerating leprous nodules on bridge of nose, both cheeks, and left eyebrow

Same, four months after beginning treatment. Complete repair



but with no further marked improvement in leprosy. Loss in weight, 12 pounds.

Case No. 35, male, Porto Rican, 28 years of age, active advanced mixed type with nodular symptoms predominating. Was suffering from dementia precox. His arms and legs were covered with suppurating ulcers. Because of a suspicion that physicians and nurses were trying to poison him, had steadfastly refused all treatment except dressings with sterile gauze and bandages. Was persuaded into receiving six injections of mercurochrome. After the second injection, the ulcers became clean and showed evidence of healing. and he consented at that time to wet dressings of 1 per cent mercurochrome. At the end of two months, showed improvement in general health and marked improvement in mental condition by his ready cooperation with attendants, interest in surroundings, and even by joking with fellow patients. Salivation and stomatitis unfortunately disturbed his equilibrium and he refused further intravenous injections. At the end of three months, ulcers were practically all healed and leprosy nearly stationary. Five months after treatment was begun, or three months after cessation of treatment, his physical condition had returned to its pre-treatment status and he again consented to injections, which were continued at irregular intervals for seven months. The net result, at the end of 12 months, is considerable improvement in general health, slight stabilization of his mental condition, and the healing of many of the superficial ulcerations. Gain in weight, 2 pounds.

Case No. 37, female, American, 26 years of age, active moderately advanced mixed type with nodular symptoms predominating. Face markedly infiltrated, the cheeks presenting brown patches and nodules approximately one-half cm. above the normal level. At the end of two months, complexion considerably clearer, induration less marked, general condition consistently good. At the end of 12 months, comparatively few traces of the original lesions remain. General condition of the patient consistently good. Loss in weight, 3 pounds.

Two patients are slightly worse than when treatment was begun. Three patients were moderately worse at the end of 12 months:

Case No. 3, male, Filipino, age 26, active advanced nodular type, bedfast for a number of weeks, subject to almost continuous chills and fever and repeated outcroppings of evanescent tubercles, listless and apparently approaching dissolution; suffering violent neuritis in arms and legs, with coincident severe ophthalmia. After five injections, professed marked improvement, was without chills or fever, was not suffering from evanescent tubercles, neuritis completely absent, ophthalmia practically absent, morale excellent, discharged from infirmary and returned to quarters, where he remained, continuing to take weekly injections for four months, when some former symptoms recurred, notably chills and fever; demonstrable leprous lesions were not affected. Clinical and laboratory examinations confirmed suspicion of activated pulmonary tuberculosis, and further injections were administered with caution. General condition slowly, but steadily, became more unsatisfactory and, 12 months after beginning treatment, was again approaching early dissolution.*

Case No. 24, female, American, 42 years of age, active advanced mixed type with anæsthetic symptoms predominating; was selected for treatment because of severe headaches, probably dependent upon ophthalmia of long standing; as a result of pronounced photophobia, was confined to room for five weeks. After three injections, the headaches subsided and the eye condition was markedly improved; the patient was able to leave her room and was without photophobia. After a total of eight injections, experienced no further headaches or ophthalmia, but suffered a severe attack of leprous fever succeeded by an outcropping of tubercles. Patient refused further injections. Gain in weight, 10 pounds.

Case No. 38, male, American negro, age 32, active early anæsthetic type. Began treatment when in excellent physical condition, having numerous serpentine patches on face and a few similar ones on arms and back; the patches on face presented elevated margins and slight erythema. During the first six months of treatment, his skin lesions showed marked improvement. Subsequently, fever and night sweats were complained of and physical examination revealed evidence of early pulmonary tuberculosis, which was confirmed by X ray and sputum examinations, and by guinea-pig inoculation. After 12 months of treatment and observation, it is evident that his pulmonary condition has become progressively less satisfactory. His leprous lesions have continued to improve. Loss in weight, 7 pounds.

Three patients died during the 12 months of treatment and observation.

Case No. 9, male, American, 25 years of age, active moderately advanced nodular type with moderately advanced pulmonary tuberculosis, cervical adenitis, and tertiary lues. Had been an infirmary patient for 10 weeks, becoming progressively weaker, subject to frequent leprous fever and outcroppings of evanescent nodules and some tubercles of the permanent type, and almost complete loss of appetite. After four injections, was considerably improved and regained some strength, showed marked reduction in fever, and had comparatively few new evanescent tubercles; was discharged from the infirmary and returned to his quarters. At the end of five months, was much stronger and had made considerable improvement in his general health and appearance; discontinued treatment voluntarily. Eight

• Died 14 months after treatment was begun.

months after beginning treatment, again returned to infirmary, complaining of afternoon fever and malaise; condition subsequently became worse with, in addition, abdominal cramps, bloody diarrhea, and rectal tenesmus. Died four months after treatment was discontinued.

Case No. 10, male, American, 33 years of age, active advanced nodular type with ulcerating tubercles on face and limbs, marked pharyngitis and laryngitis from leprous ulcerations and consequent dysphagia and dysphonia, as well as a severe nephritis evidenced by a high albuminuria and low phenolsulfonephthalein output (20 per cent first hour, 10 per cent second hour). Had severe stomatitis from small doses (5 c. c.), and received but a total of 78 c. c. in five months. At the end of five months, appeared to be slightly improved, many ulcerations completely healed, apparently somewhat stronger, but had lost 6 pounds in weight, probably due to dysphagia. Further mercurochrome treatment discontinued, and patient became progressively worse, succumbing to his leprous infection 12 months after treatment was begun.

Case No. 12, male, negro, 39 years of age, active advanced nodular type, complicated with active advanced pulmonary tuberculosis, subject to daily attacks of chills and fever, successive outcroppings of evanescent tubercles, marked edema of the feet and hands, marked arthritis, and distressing night sweats. After four injections of 27 c. c. each, professed to feel better than he had for months. Chills and fever less marked, edema in hands and feet diminished, joint pains practically disappeared, skin on his forearms less indurated. Insisted that he had less cough at night and that the night sweats were less distressing. The dosage was reduced from 27 to 14 c. c. because of severe stomatitis. The subsequent course was a gradual return to his pretreatment state, it being evident that his progress was steadily downward. Treatment was discontinued after four months, and two months later he died.

One patient absconded from the hospital and his present condition is not reportable:

Case No. 42, male, American, 42 years of age, active moderately advanced nodular type, in excellent general health; had a large infiltrated leprous plaque on forehead and numerous small ones on face and trunk. Received treatment regularly for three months, during which time the inflamation in his leprous plaques decreased. General condition remained excellent. Left hospital without official leave.

COMMENT

A very definite improvement was early apparent in some of the secondary lesions found in nodular and mixed types. Ulcerating nodules became clean, granulated, and healed, leaving smooth cicatrices. Trophic ulcers responded more slowly, but definitely improved. Occasionally soft nodules showed a very slow tendency to absorption; fibrous nodules were not noticeably improved. Symptoms referable solely to advanced anesthetic leprosy were not appreciably affected. Two cases of early maculo-anæsthetic leprosy were markedly improved as far as macules are concerned. It should be noted that in early maculo-anæsthetic leprosy, macules often improve and even temporarily disappear without treatment.

An interesting phenomenon occurred in approximately one-half of the patients who were accustomed to occasional unannounced attacks of leprous fever accompanied by outcroppings of evanescent tubercles. It was noted that, sometimes after the first injection and frequently after the second or third intravenous injection of mercurochrome, the course of the febrile reaction was apparently favorably modified by a sharp decline in the temperature within 12 hours and by the failure, or almost complete failure, of evanescent nodules to appear. In a few instances, febrile reactions have not recurred. In many, however, after a period of two or three months' treatment, leprous fever and evanescent tubercles reappeared, although they were rarely so severe as before treatment was started.

Following the first few injections, the majority of patients claimed a distinct improvement in general health and exhibited satisfactory improvement in certain leprous lesions and also in lesions due to secondary infections. This improvement continued for several months; subsequently, improvement was less rapid.

Leprous patients in this experiment suffering from active pulmonary tuberculosis have not exhibited progressive improvement of both diseases; certain leprous manifestations have improved while the pulmonary tuberculosis has apparently been aggravated by mercurochrome.

As a continuance of the study of mercurial preparations, and in addition to this experiment, which is being continued, a selected number of patients are being given further treatment by the intravenous administration of mercurophen and metaphen, a report of which will be made subsequently.

CONCLUSIONS

1. Mercurochrome soluble 220 has not proved to be specific for leprosy.

2. Mercurochrome soluble 220 has been helpful in checking rapid retrogression in leprosy.

3. Mercurochrome soluble 220 has been of value in the treatment of ulcers, the result of disintegrating tubercles.

4. Mercurochrome soluble 220 has been helpful in the healing of neuro-trophic ulcers.

5. Mercurochrome has not been helpful in checking the unfavorable progress of pulmonary tuberculosis in lepers; on the contrary, this complication was apparently aggravated.

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TABULATED DATA

Summary of results

| Result | Active advanced | Active moder- ately advanced | Active early | Inactive early | Total | Per cent |
|-------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|----------------------------------|--|
| Markedly improved | 9 1 3 3 0 2 2 0 | 6 3 2 1 2 0 1 1 | 1 2 1 1 0 1 0 0 | 0 0 2 0 0 0 0 0 | 15 6 7 2 3 3 1 | 36. 4 13. 6 13. 6 15. 9 4. 5 6. 8 6. 8 2. 3 |
| Total Per cent | 20 45. 4 | 16 36. 4 | 6 13. 6 | 2 4. 5 | 44 99. 9 | 9 9. 9 |

| Tabu | lation | of | cases |
|------|--------|----|-------|
|------|--------|----|-------|

| Case No. | Age | Sex | Type of leprosy | State of progress ¹ | Compli- cations ³ | Num- ber of injec- tions | A verage dose | Weight | Results ³ |
|---|---|--------------------------------------|-----------------|--|---|--|---|---|--|
| 1 2 3 4 5 5 5 8 9 11 12 13 14 15 15 16 17 20 21 22 23 24 23 23 24 25 23 24 25 23 23 24 23 23 24 25 23 23 24 25 23 23 24 23 23 24 25 27 28 27 28 29 27 28 27 28 27 28 27 28 27 28 27 28 27 28 27 28 29 27 28 29 27 28 27 28 27 28 27 28 27 28 27 28 27 28 29 27 30 31 32 34 34 41 42 44 44 | 2633426233242944325482433225282332429443254824332252822332429443254824332252822332424325282233225282233 | M F M M M M M M | do | A. A | Inf. par Neph Lues TB Dem. pr Lues TB | 242 277 116 153 222 177 282 277 127 282 277 127 282 277 127 282 271 133 88 85 31 14 216 26 44 100 101 11 233 24 41 116 116 127 117 116 116 115 115 115 115 115 115 115 115 | $\begin{array}{c} C. \ C. \\ 14 \ 5 \\ 15 \\ 16 \ 5 \\ 15 \\ 16 \ 5 \\ 16 \ 5 \\ 16 \ 5 \\ 16 \ 5 \\ 16 \ 5 \\ 17 \ 5 \\ 17 \ 5 \\ 16 \ 5 \\ 17 \ 5 \\ 10 \ 5 \ 5 \\ 10 \ 5 \ 5 \\ 10 \ 5 \ 5 \\ 10 \ 5 \ 5 \ 5 \ 5 \\ 10 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ 5 \ $ | $\begin{array}{c c} Pounds \\ +33 \\ +154 \\ +25 \\ +26 \\ +26 \\ +27 \\$ | Ma. I. Ma. I. Mo. W.4 Sl. W. Ma. I. Ma. I. Died. Ma. I. Died. Ma. I. Died. Ma. I. Mo. I. Mo. I. U. U. Mo. I. U. Mo. I. Mo. I. Sl. I. Mo. I. Sl. I. Mosc. Sl. I. Mo. M |

¹ A. E., active early; I. E., inactive early; A. M. A., active, moderately advanced; A. A., active, ad-

¹ TB., tuberculosis; Neph., nephritis; Inf. par., infantile paralysis; Dem. pr., dementia precox.
 ² TB., tuberculosis; Neph., nephritis; Inf. par., infantile paralysis; Dem. pr., dementia precox.
 ³ Absc., absconded; Ma. I., marksdly improved; Mo. I., moderately improved; Sl. I. slightly improved; U., unchanged; Sl. W., slightly worse; Mo. W., moderately worse.
 ⁴ Died after 14 months' treatment.

DESTRUCTION OF COCKROACHES AND DEVITALIZATION OF

THEIR EGGS BY CYANOGEN-CHLORIDE MIXTURE

By C. E. RICE, Assistant Surgeon, United States Public Health Service

Most persons who have gone to sea or who have worked about ships know that the most common form of animal life on a ship is the Of the four domestic species of roaches the most imporcockroach. tant as regards ship infestation is the croton bug, or German cock-Two other species are often seen, much roach (Blatella germanica). larger than the croton bug, the Periplaneta americana and Periplaneta australasia. These last two are most often seen on ships touching Central American ports and the South Sea Islands. However, these

are never as numerous and never found on as many ships of the Pacific as the croton bug.

The croton bug is recognized by its small size, one-half inch or less in length, and two longitudinal black stripes on the dorsal surface of the pronotum.

The roaches are found most often and in greatest numbers around galleys, storerooms, dining rooms, and pantries of ships. After fumigation, as many as 300 dead croton bugs have been counted on the top of a meat block 3 feet square.

While the United States Public Health Service is primarily interested in the killing of rats in ship fumigation, the ships' officers are nsually primarily interested in the efficiency of the fumigation in eradicating cockroaches. Medical officers on Army and Navy transports have developed a very critical attitude toward the fumigation of their ships, and usually judge the effectiveness of the fumigation by the scarcity of live cockroaches after the ship is cleared of gas. It is quite common to hear the wish expressed that a second fumigation could be done in a week or so in order to kill the young of eggs that have hatched since the first fumigation.

Agents of freighters and passenger ships very often request the fumigation of their ships for cockroach eradication in spite of the fact that the cost is considerable.

In 1921 Mr. I. E. Neifert and Mr. G. L. Garrison, of the Bureau of Chemistry, Department of Agriculture, in Bulletin No. 893, reported that cockroaches and the egg pods of roaches were killed by exposure to hydrocyanic and cyanogen-chloride gas. The tests were made on the German cockroach. The experiments were carried out under ideal laboratory conditions, and concentrations of gas were used much greater than the concentration used by the United States Public Health Service in ship fumigation.

It was thought of considerable importance to determine whether cyanogen-chloride gas killed the eggs of roaches on ships undergoing routine fumigation. These observations were made only on the *Blatella germanica* and on the eggs of the same roach.

Using the amounts of chemicals as called for by the United States quarantine regulations (4 ounces of sodium cyanide to each 1,000 cubic feet of space; 17 ounces of HCl; and 3 ounces of sodium chlorate, with exposures from two to four hours) in compartments that were tight, or could be made tight, all roaches were invariably killed unless too well protected by cover. Of 405 female croton hugs subjected to such exposure, collected from 24 different ships, none ever revived. In one galley, in a corner near a door through which the roaches had evidently intended to escape, was found a heap of croton bugs. This heap was somewhat pyramidal in shape, with a depth of 2 inches. Some of those on the bottom that had been protected by those on top were able to move about slowly and erratically. Twenty of those able so to move about were collected, and these recovered. The exposure in this case had been two hours. Doubling the time of exposure would have increased the efficiency of the gas. In this galley there had been some leakage of gas through the stoves and stovepipe, as the funnel had not been covered.

From August, 1924, to February, 1925, 449 female croton bugs with egg sacs attached were observed for the effect of CNCl on the hatching of the eggs, some as controls, but the majority killed by cyanogen-chloride gas in concentration as called for by the United States Quarantine Regulations and described above. Some of the controls were captured while dormant from cold and some while stunned by exposure to the gas for only 20 to 30 minutes.

On August 10, five living female roaches with egg sacs attached were secured. On the same ship 30 dead females with egg sacs were collected after a two-hour exposure to CNCI. Cardboard was placed in the bottom of wide-mouthed bottles and moistened each day. Both the dead and living roaches were kept in such bottles. All the eggs of the living roaches hatched in from one to six weeks. The eggs remained attached until just before hatching in most cases, but in some instances they remained attached during and after hatching. The eggs attached to the dead roaches were observed for two months and only those of one roach hatched, but the young roaches died shortly after emerging.

On September 14, 15 living females were secured and the eggs of 11 hatched within four weeks. Of 20 dead secured at this time, no eggs hatched. These roaches were killed by a two-hour exposure to CNCl. On November 11 five living females were secured and the eggs of four hatched within four weeks. Twenty dead females secured on this ship were kept two months and no eggs hatched. These had been subjected to a two-hour exposure. On November 12 four living females were caught and the eggs of all hatched within Twenty dead were secured on this ship and no eggs four weeks. hatched. These roaches were killed by two hours' exposure to CNCl. On February 10, 15 live females were taken and the eggs of 12 hatched within one month. Of 40 dead females secured on this ship, no eggs These were killed by two hours' exposure to CNCl. hatched. Two hundred and seventy-five more females with egg sacs attached and dead from exposure to CNCl for from two to four hours were observed without any control groups. Of these only one egg hatched. The majority of these 275 roaches were killed by a two-hour exposure to CNCl. The fact that the croton bug carries its egg sac up to the time of hatching is important. If it attempted to hide its egg some

time before hatching, as the *americana* is reported to do, then it would be impossible to get the gas to some eggs.

The concentrations as reported by Neifert and Garrison in Bulletin No. 893 of the Department of Agriculture are much greater than the concentration of gas called for by the United States Quarantine Regulations; they used a 2 per cent concentration against roach eggs. The concentration developed by 4 ounces of sodium cyanide in conjunction with sodium chlorate and hydrochloric acid to each 1,000 cubic feet is less than one-tenth of 1 per cent. If a 2 per cent concentration were necessary, the cost of fumigating a ship by such a process would be prohibitive.

CONCLUSIONS

1. The cockroach is the most common form of life on ships.

2. Of all cockroaches on ships, the German cockroach, or croton bug (Blatella germanica), greatly outnumbers all others.

3. With a ship properly closed and sealed, the cyanogen-chloride and hydrocyanic gas developed by 4 ounces of sodium cyanide to each 1,000 cubic feet, in conjunction with sodium chlorate and hydrochloric acid, will kill practically all croton bugs in a two-hour exposure. A four-hour exposure would be more efficient, as the gas would then reach the roaches that were too well protected by cover to be reached by a shorter exposure.

4. The same gas in the same time will kill the eggs of the croton bug unless they are too well protected.

5. If a second fumigation is to follow the first for the purpose of killing the young that have hatched from eggs that escaped the first fumigation, at least two weeks should elapse, and, preferably, a period of six weeks, before the second fumigation.

SMALLPOX AND VACCINATION IN CONNECTICUT, 1923 AND 1924

During the years 1923 and 1924, 152 cases of smallpox with 6 deaths were reported in Connecticut. The State health department has supplied the following detailed information as to the vaccination history of the cases:

| | Cases | Deaths |
|---|-------------------------------|----------------------------|
| Vaccinated within 7 years Vaccinated more than 7 years before onset Never successfully vaccinated Had smallpox previously Vaccination history uncertain Case records missing | 3 24 96 1 3 25 | 0 1 5 0 0 0 |
| Total | 152 | 6 |

| Ages in years | Vaccinated within 7 years | | Vaccinated more than 7 years before onset | | Never Successfully vaccinated | | Total | |
|---------------|--|---|---|---|---|--|--|---|
| | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| 0-4 5-9 | 0 0 0 1 0 0 0 0 0 0 0 2 0 0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0 0 0 1 1 7 2 0 5 7 1 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6 15 19 11 11 6 3 7 2 0 1 | 1 0 1 0 0 2 0 0 1 0 0 0 0 0 | 6 15 20 12 12 13 5 7 7 9 2 | 1 C 1 0 0 2 0 0 0 1 0 1 0 |
| Total | 3 | 0 | 24 | 1 | 96 | 5 | 123 | 6 |

Vaccination history of smallpox cases in Connecticut in 1923 and 1924

DEATH RATES IN A GROUP OF INSURED PERSONS

COMPARISON OF PRINCIPAL CAUSES OF DEATH, MAY AND JUNE, 1925, AND RATES FOR WHITE AND COLORED POLICYHOLDERS FOR THE FIRST SIX MONTHS OF 1923, 1924, AND 1925

The accompanying tables are taken from the Statistical Bulletin for July, 1925, published by the Metropolitan Life Insurance Co. They present the mortality experience of the industrial insurance department of the company for May and June, 1925, as compared with June and year 1924, and compare the death rates for white and colored policyholders for the first six months of the years 1923, 1924, and 1925. The rates are based on a strength of approximately 16,000,000 insured persons.

The health record for June for this group, as interpreted by the death rate, was unfavorable as compared with that for the five preceding months, with that for May, 1925, and with that for June, 1924. It is the first month this year to have higher rates than the corresponding month of last year; and instead of registering the usual seasonal decline, the rate for June was higher than that for May. The death rates per 1,000 for May and June for the two years are as follows: 1924—May, 9.3; June, 9.0; 1925—May, 8.8; June, 9.4. The June death rate this year exceeded that for any June since 1921.

The Bulletin attributes this unsatisfactory record largely to the protracted period of hot weather during the month, and does not interpret it as the beginning of a permanent break in the favorable health conditions which have prevailed so far during the year. It states:

A considerable number of deaths were definitely reported from sunstroke and excessive heat. In a much larger number of instances, effects of heat were certified as contributory factors in the deaths of persons from organic diseases. In hundreds of other cases, it is safe to say, excessive heat or humidity played their parts, even though physicians made no mention of them in reporting causes of death.

Organic heart disease and chronic Bright's disease were two important causes of death showing considerable increases in June this year over the rates both for May of this year and for June of last year.

Death rates (annual basis) for principal causes, per 100,000 lives exposed, May and June, 1925, and June and year, 1924

| | Death r | Death rate per 100,000 lives exposed 1 | | | | |
|-------------------|--|---|---|--|--|--|
| Cause of death | | May, 1925 | June, 1924 | Year 1924 2 | | |
| Total, all causes | 941.0 | 884. 2 | 928.8 | 907. 5 | | |
| Typhoid fever | 7.1 3.4 8.9 8.2 12.9 106.7 91.9 68.8 15.0 51.4 134.7 74.4 12.0 31.0 73.1 17.3 | $\begin{array}{c} 2.0\\ 5.0\\ 4.6\\ 7.9\\ 10.4\\ 25.0\\ 102.6\\ 87.6\\ 65.9\\ 14.1\\ 49.6\\ 124.3\\ 94.7\\ 14.2\\ 19.0\\ 66.7\\ 15.4\\ 5.3\\ 6.7\\ 55.6\\ 14.1\\ 195.1 \end{array}$ | $\begin{array}{r} 4.1\\ 8.0\\ 5.1\\ 9.3\\ 11.6\\ 115.1\\ 102.9\\ 76.0\\ 14.0\\ 58.2\\ 131.5\\ 84.1\\ 14.0\\ 24.3\\ 65.7\\ 15.2\\ 7.8\\ 5.7\\ 63.1\\ 16.6\\ 208.4 \end{array}$ | $\begin{array}{c} 4.4\\ 7.2\\ 4.4\\ 7.4\\ 13.2\\ 16.0\\ 104.5\\ 92.6\\ 92.6\\ 92.6\\ 92.6\\ 104.4\\ 9\\ 60.2\\ 123.7\\ 88.8\\ 13.9\\ 932.2\\ 123.7\\ 18.7\\ 0\\ 15.7\\ 15.7\\ 18.7\\ 0\end{array}$ | | |

[Industrial department, Metropolitan Life Insurance Co.]

¹ All figures include infants insured under one year of age. ² Based on provisional estimate of lives exposed to risk in 1924.

MORTALITY RECORD FOR THE FIRST SIX MONTHS OF 1925

The death rate for the white industrial policyholders of the company for the first six months of 1925 (8.7 per 1,000) is stated to be a record low rate for the first half year. The rate for the colored (16.2 per 1,000) is not so favorable (16.0 per 1,000 in 1924, and 15.9 in 1923).

The continued decline in the tuberculosis death rate is credited with being the most important single item in bringing about this excellent record for the first half-year period. Both races shared in the decline for this disease, although the decrease in the colored rate was much smaller than that in the rate for the white persons. This drop in tuberculosis mortality is not shown, however, in the rate for "other forms of tuberculosis," which has registered, on the contrary, a definite increase during the past three years amounting to 25 per cent in two years for the white policyholders and to 47 per cent for the colored. It has not yet been determined for what organs this increase is being registered.

The death rate for the epidemic diseases of childhood—measles, scarlet fever, whooping cough, and diphtheria—as a group dropped 35 per cent from the figure for 1924 for the white persons, each disease registering a decrease. Among the colored, however, the rate increased slightly for three of these diseases—scarlet fever, whooping cough, and diphtheria.

Infantile diarrhea also showed improvement among the white children as contrasted with a rise in the rate among the colored.

The combined death rate from the principal "degenerative diseases" —heart disease, chronic Bright's disease, and cerebral hemorrhage shows a decline among the white persons of this group, although the rates for cardiac conditions and nephritis are slightly higher than for 1924; and here again the rate for the colored is less favorable in comparison with that for the white policyholders.

The death rate for diseases incident to pregnancy and childbirth shows a considerable reduction in the first half year of 1925 from that for the corresponding period of 1924; and this decrease applies to both white and colored women. The death rate for puerperal septicemia, however, has been registering an upward tendency since 1923 among the colored women of this group, the rate for the first six months of 1925 being 23 per cent higher than that for the corresponding period of 1923, and 14 per cent above that for 1924.

The cancer death rate shows no significant change.

The death rate for diabetes again registers an increase. The rise is slight, but at this time last year a decline was being recorded by this disease.

Alcoholism caused 230 deaths during the first six months of 1925 (2.8 per 100,000) as compared with 236 deaths for the corresponding period of 1924 (3 per 100,000). Cirrhosis of the liver rose from 475 deaths in 1924 to 548 in 1925 (from 6 per 100,000 to 6.7).

The homicide rate shows a sharp increase among the white policyholders and a slight rise among the colored.

Automobile fatalities continue to show an increasing rate in spite of the various agencies actively interested in promoting public safety.

Death rates (annual basis) per 100,000 persons exposed, first six months of 1923, 1924, and 1925, for principal causes of death, compared for while and colored policyholders

| • • | Death rates per 100,000 persons exposed | | | | | | |
|--|---|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| Cause of death | | White | | Colored | | | |
| | January- June, 1925 | January- June, 1924 | January- June, 1923 | January- June, 1925 | January- June, 1924 | January- June, 1923 | |
| All causes of death | 874.7 | 904. 5 | 958.1 | 1, 619. 5 | 1, 596. 6 | 1, 585. 0 | |
| Typhoid fever | 2.3 4.3 | 2.6 13.3 | 3.2 14.4 | 6.3 3.2 | 5.5 | 6.0 | |
| | | 6.8 | 6.5 | | 8.4 | 13.0 | |
| Scarlet fever | | 6.8 7.7 | 6.5 7.1 | 1.2 13.8 | 1.0 | 1.3 | |
| Diphtheria and croup | 12.5 | 16.7 | 18.2 | 13.8 | 13.4 5.0 | 10.0 | |
| Influenza | | 19.6 | 48.4 | 5.4 71.6 | | 6.4 | |
| Meningococcus meningitis | 1.0 | .8 | +0.4 | .7 | 53.9 1.1 | 100. 5 | |
| Tuberculosis, all forms | | 96.5 | 104.7 | 240.1 | 253.0 | .7 256.7 | |
| Tuberculosis, an iorns Tuberculosis of respiratory system | 76.2 | 85.9 | 95.8 | 240.1 | 205.0 | 230.7 | |
| Tuberculosis of meninges, etc | 5.3 | 5.8 | 4.5 | 9.2 | 7.4 | 200.8 6.0 | |
| Other forms of tuberculosis | 5.5 | 4.8 | 4.4 | 21.8 | 16.6 | 14.8 | |
| Cancer | 69.2 | 70.6 | 72.5 | 73.1 | 75.3 | 69.9 | |
| Diabetes. | 16.5 | 16.0 | 20.0 | 16.0 | 15.8 | 17.2 | |
| Cerebral hemorrhage; apoplexy | 52.1 | 59.1 | 63.5 | 91.4 | 105.7 | 102.7 | |
| Organic diseases of the heart | 125.3 | 123.9 | 137.2 | 233.0 | 219.9 | 218.6 | |
| Total respiratory diseases | 115.4 | 122.7 | 121.4 | 239.9 | 249.4 | 223.6 | |
| Bronchitis. | 6.0 | 6.2 | 7.3 | 9.9 | 11.6 | 11.3 | |
| Bronchopneumonia | 43.5 | 49.3 | 39.4 | 75.1 | 78.8 | 56.5 | |
| Pneumonia, lobar and undefined | 57.7 | 58.1 | 65.6 | 139.9 | 145.5 | 143.2 | |
| Other diseases of respiratory system | 8.3 | 9.1 | 9.1 | 15.0 | 13.6 | 12.7 | |
| Diarrhea and enteritis | 19.4 | 20.9 | 11.0 | 27.2 | 19.2 | 12.0 | |
| Under 2 years | 16.3 | 17.6 | . 7.4 | 19.6 | 13.0 | 5.3 | |
| 2 years and over | 3.1 | 3.3 | 3.5 | 7.6 | 6.2 | 6.6 | |
| Acute nephritis | 4.9 | 5.0 | 5.4 | 16.1 | 17. 2 | 15.3 | |
| Chronic nephritis | 66.1 | 64.8 | 71.9 | 132.5 | 118.4 | 120.9 | |
| Total puerperal state | 16.7 | 17.6 | 19.1 | 25.6 | 27.5 | 24.4 | |
| Puerperal septicemia. Puerperal albuminuria and convul- | 6.4 | 6.7 | 7.4 | 11.6 | 10.2 | 9.4 | |
| Puerperal albuminuria and convul- | | | | | | | |
| sions | 3.7 | 4.6 | 4.2 | 5.7 | 7.4 | 5.6 | |
| Other diseases of puerperal state | 6.6 | 6.3 | 7.5 | 8.3 | 9.9 | 9.5 | |
| Total external causes | 69.3 | 66.5 | 67.9 | 110.3 | 103.5 | 101.4 | |
| Suicides | 7.1 | 7.5 | 8.4 | 4.3 | 5.0 | 5.0 | |
| Homicides | 3.4 | 2.6 | 3.2 | 33.1 | 32.3 | 30.0 | |
| Accidental and unspec. violence | 58.8 | 56.3 | 56.3 | 72.9 | 66.2 | 66. 4 | |
| Accidental drowning | 4.5 | 4.9 | 4.8 | 5.2 | 4.5 | 2.7 | |
| Automobile accidents | 13.3 | 12.9 | 12.3 | 11.3 | 12.0 | 10.7 | |
| All other and ill-defined causes of death | 172.1 | 173.4 | 164.9 | 312.0 | 303.5 | 284.5 | |

[Industrial department, Metropolitan Life Insurance Co.]

DEATHS DURING WEEK ENDING AUGUST 15, 1925

Summary of information received by telegraph from industrial insurance companies for week ended August 15, 1925, and corresponding week of 1924. (From the Weekly Health Index, August 18, 1925, issued by the Bureau of the Census, Department of Commerce)

| | Week ended August 15, 1925 | Corresponding week, 1924 |
|---|-------------------------------|-----------------------------|
| Policies in force | 60, 761, 269 | 56, 725, 015 |
| Number of death claims | 9, 806 | 8, 803 |
| Death claims per 1,000 policies in force, annual rate | 8.4 | 8.1 |

Deaths from all causes in certain large cities of the United States during the week ended August 15, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, August 18, 1925, issued by the Bureau of the Census, Department of Commerce)

| | | nded Aug. 1925 | Annual death rate per | Deaths under 1 year | | Infant mortality |
|---|-----------------|-------------------|--|------------------------------------|-------------------------------------|--|
| City | Total deaths | Death rate 1 | 1,000 corre- sponding week, 1924 | Week, ended Aug. 15, 1925 | Corre- sponding week, 1924 | rate week ended Aug. 15, 1925 ² |
| Total (67 cities) | 6, 071 | 11. 3 | \$ 10. 3 | 879 | \$ 744 | 4 7: |
| Akron | 32 29 | 12.6 | 10. 1 | 7 5 | 5 4 | 78 109 |
| Albany ⁵ Atlanta | 29 86 | 12.0 | 10.1 | 23 | 14 | 10 |
| Baltimore 5 | 184 | 12.0 | 11.8 | 23 37 | 30 | 11 |
| Birmingham | 47 | 11.9 | 13.8 | 7 | 11 | |
| Boston | 195 | 13.0 | 11.6 | 23 4 | 26 1 | 6 |
| Bridgeport Buffalo | 17 127 | 12.0 | 10.1 | 19 | 26 | 64 71 |
| Cambridge | 12 | 5.6 | 7.5 | 19 | 1 | 34 |
| Camden | 30 | 12.2 | 13.6 | 2 7 | 19 | 11 |
| Chicago 5 | 600 | 10.4 | 8.7 | 87 | 71 | 7 |
| Cincinnati | 131 | 16.7 | 11.0 | 19 | 15 | 115 |
| Cleveland | 176 | 9.8 13.2 | 8.5 8.0 | 20 13 | 20 | 50 |
| Columbus Daflas | 71 48 | 13.2 | 11.7 | 13 7 | 5 7 | 119 |
| Danas Dayton | 40 | 12.4 | 5.2 | 3 | ó | 4 |
| Denver | 78 | 14.5 | 14.5 | 10 | 10 | |
| Des Moines | 23 | 8. Q | 9.7 | 0 | 5 | |
| Detroit | 224 | | | 40 | 41 | 6 |
| Duluth | 20 22 | 9.4 | 5.8 | 2 6 2 | 2 8 | 4 |
| El Paso | 22 24 | 10. 9 | 17.1 | 9 | 1 | 3 |
| Grie Fall River 5 | 17 | 7.3 | 10.8 | Ĩ | 5 | 5 |
| Plint | 25 | 10.0 | 7.6 | 4 5 | 1 | 79 |
| Fort Worth | 21 | 7.2 | 9.9 | 1 | 2 | |
| Frand Rapids | 28 33 | 9.6 | 7.7 | 3 | 1 | 47 |
| Iouston | 33- 88 | 10.4 | 10.8 | 4 | 4 | |
| ndianapolis | 88 67 | 12.8- 11.1 | 11. 1 11. 9 | 14 10 | 19 10 | 100 71 |
| ersey City | 23 | 9.7 | 10.7 | 2 | 5 | 4 |
| Kansas City, Mo | 101 | 14.3 | 12.5 | 17 | 13 | |
| Kansas City, Kans Kansas City, Mo Jos Angeles | 186 | | | 19 | 16 | 53 |
| Joursville | 96 | 19.3 | 12.5 | 29 | 5 | 17 |
| .owell | 30 | 13.4 | 9.5 | 72 | 3 | 12: 5: |
| ynn | 21 40 | 10.5 12.0 | 14.1 | 8 | 14 | Ð, |
| femphis filwaukee | 86 | 8.9 | 7.5 | 17 | 9 | 79 |
| Ainneapolis | 76 | 9.3 | 7.1 | 5 | 7 | 2 |
| ashville 5 | 58 | 22. 2 7. 7 | 17.7 | 17 | 1 | |
| New Bedford | 20 | 7.7 | 6.3 | 6 | 4 | 100 |
| New Haven | 33 | 9.6 | 9.8 | 5 | 4 | 63 |
| Vew Orleans | 171 | 21.5 | 15.9 | • 29 159 | 14 149 | 6 |
| Sew York Bronx Borough | 1, 152 141 | 9.8 8.1 | 9.6 7.4 | 139 | 18 | 4 |
| Brooklyn Borough | 371 | 8.7 | 8.3 | 55 | 52 | 57 |
| Manhattan Borough | 479 | 11, 1 | 11.4 | 63 | 64 | 60 |
| Queens Borough | 121 | 11.0 | 10.0 | 23 | 8 | 10 |
| Richmond Borough | 40 | 15.6 | 14.0 | 6 | 7 | 107 |
| lewark, N. J | 87 39 | 10.0 | 8.9 | 16 | 10 3 | 73 147 |
| Vorfolk Dakland | 39 45 | 9.2 | 8.4 | 83 | 1 | 3 |
| klahoma City | 19 | 0. 2 | 0.1 | 2 | <u> </u> | |
| maha | 46 | 11.3 | 9.0 | 6 | 4 | 6. |
| aterson | 30 | 11.0 | 7.8 | 5 | 3 | 84 |
| hiladelphia | 444 | 11.7 | 11.8 | 78 | 60 | 94 7(|
| littsburgh | 157 | 13.0 8.9 | 10. 2 11. 4 | 21 | 15 | 70 40 |
| ortland, Oreg rovidence | 48 53 | 11.3 | 11.4 | 5 | 10 | 40 |
| lichmond | 68 | 19.0 | 12.2 | 16 | 9 | 191 |
| lochester | 66 | 10.4 | 9.1 | 13 | 2 | 104 |
| t. Louis | 289 | 18.3 | 11.0 | 17 | 25 | |
| t. Paul | 43 | 9.1 | 11.5 | 3 | 3 | 2 |
| alt Lake City 5 | 28 1 | 11.1 | 10.1 | 4 | 3 | 6 |

¹ Annual rate per 1,000 population. ² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births. ³ Data for 66 cities.

4 Data for 62 cities.

Deaths for week ended Friday, Aug. 14, 1925.

| | | ded Aug. , 1925 | Annual death rate per | Deaths under 1 year | | Infant mortality |
|------------------------------------|---------------------|--|---|---|-------------------------------------|--|
| City | Total deaths | Death rate | 1,000 corre- sponding week, 1924 | Week ended Aug. 15, 1925 | Corre- sponding week, 1924 | rate week ended Aug. 15, 1925 |
| San Antonio | 5 22 27 37 | 12.6 10.8 11.9 7.1 2.6 10.5 9.2 10.1 8.5 8.7 13.0 10.7 11.2 9.4 | 13. 6 18. 9 11. 8 6. 2 6. 7 6. 5 8. 1 13. 3 10. 1 10. 8 13. 7 10. 5 10. 9 | 14 2 8 1 3 1 1 3 3 1 7 5 5 6 6 7 | 7577 633 334 108 543 | 47 46 28 29 27 22 45 38 23 63 63 82 107 90 129 |
| Worcester Yonkers Youngstown | 46 18 32 | 12. 1 8. 4 10. 4 | 16.3 6.7 7.1 | 2 3 7 | 3 3 5 | 23 66 86 |

PREVALENCE OF DISEASE

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

UNITED STATES

CURRENT WEEKLY STATE REPORTS

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

Reports for Week Ended August 22, 1925

Cases

ALABAMA

| 04 | 1000 |
|--------------------------|------|
| Actinomycosis | 1 |
| Cerebrospinal meningitis | 2 |
| Diphtheria | 23 |
| Influenza | 1 |
| Malaria | 138 |
| Measles | 3 |
| Mumps | 6 |
| Paratyphoid fever | 1 |
| Pellagra | 5 |
| Pneumonia | 14 |
| Poliomyelitis | 4 |
| Scarlet fever | 13 |
| Smallpox | 15 |
| Tetanus | 1 |
| Tuberculosis | 44 |
| Typhoid fever | 63 |
| Whooping cough | 18 |

ARIZONA

| Malaria | 1 |
|---------------|----|
| Poliomyelitis | 4 |
| Trachoma | 1 |
| Tuberculosis | 2 |
| Typhoid fever | 10 |

ARKANSAS

| Cerebrospinal meningitis | 1 |
|--------------------------|-----|
| Chicken pox | 5 |
| Diphtheria | 4 |
| Hookworm disease | 1 |
| Influenza | 9 |
| Malaria | 147 |
| Measles | 9 |
| Mumps | 11 |
| Paratyphoid fever | 2 |
| Pellagra | 8 |
| Scarlet fever | 8 |
| Smallpox | 3 |
| Trachoma | 2 |
| Tuberculosis | 6 |
| Typhoid fever | 84 |
| Whooping cough | 4 |

CALIFORNIA

Cases

| Cerebrospinal meningitis: | |
|--------------------------------------|-------------|
| Los Angeles | 1 |
| Los Angeles Countý | 1 |
| San Bernardino | |
| San Francisco | |
| Diphtheria | |
| Influenza | |
| Lethargic encephalitis—San Francisco | |
| Measles | 8 |
| Poliomyelitis: | Ũ |
| Bakersfield | 1 |
| Berkeley | 2 |
| Inyo County | 1 |
| Lincoln | 1 |
| Lodi | î |
| Long Beach | 1 |
| Los Angeles | 16 |
| Merced County | 2 |
| Oakland | 1 |
| Pomona | 1 |
| Reedley | 1 |
| Richmond | 1 |
| Sacramento | 2 |
| San Francisco | 1 |
| Sonoma County | 1 |
| Scarlet fever | 35 |
| Smallpox: | |
| Los Angeles | 9 |
| Oakland | 8 |
| Scattering | 16 |
| Typhoid fever: | |
| Sacramento County | 10 |
| Scattering | 35 |
| Whooping cough | 129 |
| • • • | |
| COLORADO | 12 |
| Diphtheria | 2 |
| Mumps | 1 |
| Pneumonia | 5 |
| Poliomyelitis | |
| Scarlet fever | - 8 - 56 |
| Tuberculosis | - 30 |
| Typhoid fever | 15 |
| W HOODINE COURD | 10 |

CONNECTICUT

| CONTROLICOT | |
|--------------------------|-------|
| | Cases |
| Cerebrospinal meningitis | . 1 |
| Chicken pox | _ 4 |
| Diphtheria | . 11 |
| Dysentery (bacillary) | |
| German measles | . 1 |
| Measles | _ 12 |
| Mumps | . 5 |
| Paratyphoid fever | . 1 |
| Pneumonia (all forms) | . 13 |
| Poliomyelitis | . 1 |
| Scarlet fever | . 12 |
| Tuberculosis (all forms) | . 30 |
| Typhoid fever | . 7 |
| Whooping cough | . 75 |
| | |

DELAWARE

| Diphtheria | 7 |
|---------------|---|
| Malaria | 2 |
| Measles | 2 |
| Typhoid fever | 4 |

FLORIDA

| Ccrebrospinal meningitis | 1 |
|--------------------------|----|
| Diphtheria | 21 |
| Influenza | 1 |
| Malaria | 11 |
| Measles | 2 |
| Mumps | 6 |
| Poliomyelitis | 1 |
| Scarlet fever | 1 |
| Tuberculosis | 14 |
| Typhoid fever | 10 |
| Typhus fever | 1 |
| Whooping cough | 13 |
| | |

GEORGIA

| Cerebrospinal meningitis | 1 |
|--------------------------|----|
| Chicken pox | 2 |
| Conjunctivitis | 1 |
| Diphtheria | 12 |
| | 8 |
| Dysentery | |
| Hookworm disease | 8 |
| Influenza | 6 |
| Malaria | 93 |
| Mumps | 4 |
| Pellagra | 4 |
| Pneumonia | 16 |
| Scabies | 1 |
| Scarlet fever | 8 |
| Septic sore throat | 1 |
| Tuberculosis | 18 |
| Typhoid fever | 91 |
| Typbus fever | 1 |
| Whooping cough | 10 |

ILLINOIS

| Cerebrospinal meningitis—Cook County Diphtheria: | 1 |
|---|----|
| | 40 |
| Cook County | |
| Scattering | 16 |
| Influenza | 9 |
| Lethargic encephalitis: | |
| Cook County | 1 |
| Ogle County | 1 |
| Measles | 31 |
| Pneumonia | 75 |

| ILLINOIS—continued | |
|--------------------|-----------|
| Poliomyelitis: | 38665 |
| Cook County | . 7 |
| Hancock County | . 1 |
| Henry County | 1 |
| Iroquois County | 1 |
| Kane County | ī |
| Mercer County | i |
| Peoria County | 2 |
| Scarlet fever: | |
| Cook County | 27 |
| Scattering | 35 |
| Smallpox | |
| Tuberculosis | 173 |
| Typhoid fever | 173 63 |
| Whooping cough | |
| | 199 |

INDIANA

| Cerebrospinal meningitis | 9 |
|--------------------------|----|
| Chicken pox | |
| Diphtheria | |
| Influenza | 25 |
| Pneumonia | 1 |
| Poliomyelitis | |
| Scarlet fever | |
| Smallpox | 3 |
| Tuberculosis | |
| Typhoid fever | |
| Whooping cough | |
| | |

IOWA

| Chicken pox | з |
|----------------|---|
| Diphtheria | 6 |
| Mumps | 3 |
| Poliomyelitis: | Ĩ |
| Alker | 1 |
| Des Moines | 1 |
| Hesper | 3 |
| Highland | 1 |
| Stansgar | 2 |
| Scarlet fever | 1 |
| Smallpox | 5 |
| Whooping cough | |
| | |

KANSAS

| Cerebrospinal meningitis-Meriden | 1 |
|----------------------------------|-----|
| Chicken poy | 6 |
| Diphtheria | 10 |
| Influenza | · 2 |
| Measles | 1 |
| Mumps | 9 |
| Pneumonia | 7 |
| Poliomyelitis: | |
| Atchison | 1 |
| Glasco | 1 |
| Kansas City | 2 |
| Kirwin | 1 |
| Prescott | 1 |
| Topeka | 3 |
| Williamsburg. | 1 |
| Scarlet fever | 19 |
| Smallpox | 3 |
| Tetanus | 1 |
| Tuberculosis | 41 |
| Typhoid fever | 35 |
| Whooping cough | 61 |
| | |

LOUISIANA

| LOUISIANA | |
|-------------------|------|
| Ce | ises |
| Diphtheria | 7 |
| Influenza | 14 |
| Malaria | 49 |
| Paratyphoid fever | 1 |
| Pneumonia | 13 |
| Poliomyelitis | 2 |
| Scarlet fever | 4 |
| Smallpox | 8 |
| Tuberculosis | 31 |
| Typhoid fever | 84 |

MAINE

| Diphtheria | 8 |
|----------------|----|
| Measles | |
| Mumps | |
| Scarlet fever | 3 |
| Tuberculosis | 14 |
| Typhoid fever | 6 |
| Whooping cough | |

MARYLAND¹

| Cerebrospinal meningitis | 1 |
|--------------------------|-----|
| Chicken pox | 6 |
| Diphtheria | 16 |
| Dysentery | 18 |
| German measles | 1 |
| Influenza | 1 |
| Malaria | 1 |
| Measles | 20 |
| Mumps | 5 |
| Paratyphoid fever | 5 |
| Pneumonia (all forms) | 19 |
| Scarlet fever | 8 |
| Tetanus | 2 |
| Tuberculosis | 108 |
| Typhoid fever | 60 |
| Vincent's angina | 1 |
| Whooping cough | 74 |

MASSACHUSETTS

| Cerebrospinal meningitis | 2 |
|------------------------------|------------|
| Chicken pox | 15 |
| Conjunctivitis (suppurative) | 18 |
| Diphtheria | 43 |
| German measles | 21 |
| Influenza | 2 |
| Lethargic encephalitis | 1 |
| Malaria | 1 |
| Measles | 72 |
| Mumps | 11 |
| Ophthalmia neonatorum | 2 6 |
| Pellagra | 2 |
| Pneumonia (lobar) | 21 |
| Poliomyelitis | 9 |
| Scarlet fever | 39 |
| Septic sore throat | 1 |
| Trichinosis | 1 |
| Tuberculosis (all forms) | 117 |
| Typhoid fever | 21 |
| Whooping cough | 140 |

. MICHIGAN .

| | ises |
|--|------|
| Diphtheria | 50 |
| Measies. | 19 |
| Pneumonia | |
| Scarlet fever | |
| Smallpox | |
| Tuberculosis | |
| Typhoid fever | |
| Whooping cough | |
| ··· = •• p ··· s ··· usu ··· ··· ··· ··· ··· ··· · | 109 |

MINNESOTA

| Anthrax | 2 |
|--------------------------|----|
| Cerebrospinal meningitis | 3 |
| Chicken pox | 22 |
| Diphtheria | 49 |
| Influenza | 2 |
| Measles | 2 |
| Pneumonia | 1 |
| Poliomyelitis | 63 |
| Scarlet fever | 69 |
| Tuberculosis | 49 |
| Typhoid fever | 8 |
| Whooping cough | 36 |
| | |

MISSISSIPPI

| Diphtheria | 18 |
|---------------|----|
| Poliomyelitis | |
| Scarlet fever | |
| Smallpox | |
| Typhoid fever | |

MISSOURI

(Exclusive of Kansas City)

| Chicken pox | 1 |
|-----------------------|----|
| Diphtheria | 47 |
| Influenza | 41 |
| Malaria | 10 |
| Mumps | 11 |
| Ophthalmia neonatorum | 1 |
| Pneumonia | 1 |
| Poliomyelitis | 19 |
| Scarlet fever | 66 |
| Smallpox | 3 |
| Tetanus | ĩ |
| Trachoma | 1 |
| Tuberculosis | 65 |
| Typhoid fever | 71 |
| W hooping cough | 55 |

MONTANA

| Chicken pox | 1 |
|----------------|---|
| German measles | 1 |
| Mumps | 8 |
| Poliomyelitis: | |
| Bowdoin | 1 |
| Chinook | 1 |
| Twete | 1 |
| Scarlet fever | 6 |
| Smallpox | 5 |
| Tuberculosis | 2 |
| Tularaemia | 1 |
| Typhoid fever | 8 |
| Whooping cough | 3 |

¹ Week ended Friday.

4

NEW JERSEY

| | Cases |
|----------------|-------|
| | CUSER |
| Chicken pox | 15 |
| Diphtheria | . 48 |
| Measles | . 35 |
| Pneumonia | . 18 |
| Poliomyelitis | . 8 |
| Scarlet fever | . 30 |
| Typhoid fever | . 24 |
| Whooping cough | |

NEW YORK

(Exclusive of New York City) Diphtheria_____ 44 Influenza Lethargic encephalitis Pneumonia_____ 48 Poliomyelitis 27 Smallpox 1

Whooping cough..... 182 NORTH CAROLINA

Typhoid fever 49

| Cerebrospinal meningitis | 1 |
|--------------------------|----|
| Chicken pox | 8 |
| Diphtheria | 53 |
| German measles | 1 |
| Measles | 3 |
| Poliomyelitis | 4 |
| Scarlet fever | 15 |
| Septic sore throat | 1 |
| Smallpox | 12 |
| Typhoid fever | 52 |
| Whooping cough | 68 |

OKLAHOMA (Frequeive of Oklahoma and Tuka)

| (Exclusive of Oklaholina and Tuisa) | |
|-------------------------------------|-----|
| Chicken pox | 1 |
| Diphtheria | 9 |
| Influenza | 16 |
| Malaria | 90 |
| Measles | 1 |
| Mumps | 1 |
| Pellagra | 6 |
| Pneumonia | 4 |
| Poliom yelitis: | |
| McCurtain | - 1 |
| Rabies | 1 |
| Scarlet fever | 21 |
| Smallpox | 2 |
| Typhoid fever: | |
| Leflore | 23 |
| McCurtain | 8 |
| Tulsa | 9 |
| Scattering | 83 |
| Whooping cough | 7 |
| | |

OREGON

| Chicken pox | 5 |
|----------------|----|
| Diphtheria | |
| Measles | |
| Mumps | |
| Pneumonia | |
| Scarlet fever | |
| Smallpox | 1 |
| Tuberculosis | 21 |
| Typhoid fever | 18 |
| Whooping cough | |
| | |

SOUTH CAROLINA

| (| ases |
|----------------|------|
| Dengue | . 1 |
| Diphtheria | . 28 |
| Influenza | . 52 |
| Malaria | |
| Measles | . 1 |
| Poliom yelitis | . 7 |
| Scarlet fever | . 12 |
| Smallpox | |
| Tuberculosis | |
| Typhoid fever | |
| Whooping cough | |
| | |

SOUTH DAKOTA

| Diphtheria | 1 |
|---------------|---|
| Poliomyelitis | |
| Scarlet fever | 7 |
| Typhoid fever | |

TEXAS

| Diphtheria | |
|-------------------|---|
| Measles | |
| Mumps | |
| Paratyphoid fever | |
| Pneumonia | |
| Poliomyelitis | |
| Scarlet fever | |
| Smallpox | |
| Tuberculosis | 1 |
| Typhoid fever | 1 |
| Typhus fever | |
| Whooping cough | 1 |

VERMONT

| Chicken pox | 4 |
|----------------|---|
| Measles | 3 |
| Mumps | 5 |
| Scarlet fever | 2 |
| Whooping cough | 4 |

VIRGINIA

| Cerebrospinal meningitis-Wise County | 1 |
|--------------------------------------|---|
| Poliomyelitis-Prince Edward County | 1 |

WASHINGTON

| Chicken pox | Í |
|----------------|----|
| Diphtheria | 18 |
| German measles | 1 |
| Measles | - |
| Mumps | (|
| Poliomyelitis: | |
| Pierce County | (|
| Seattle | 1 |
| Spokane | 1 |
| Scarlet fever | 10 |
| Smallpox | (|
| Tuberculosis | 51 |
| Typhoid fever | 16 |
| Whooping cough | 31 |

WEST VIRGINIA -

| Diphtheria | 6 |
|------------------------|----|
| Poliomyelitis-Wheeling | 1 |
| Scarlet fever | 6 |
| Smallpox | 1 |
| Typhoid fever: | |
| Morgantown | 11 |
| Scattering | 8 |

| WISCONSIN | |
|--------------------------|------|
| Milwaukee: Ca | ises |
| Chicken pox | 3 |
| Diphtheria | 3 |
| German measles | 2 |
| Measles | 2 |
| Mumps | 3 |
| Pneumonia | 5 |
| Scarlet fever | 3 |
| Tuberculosis | 15 |
| Whooping cough | 78 |
| Scattering: | |
| Cerebrospinal meningitis | 1 |
| Chicken pox | 10 |
| Diphtheria | 34 |
| German measles | 9 |
| Influenza | 1 |
| Measles | 77 |
| Mumps | 13 |
| Denents for Week | . 17 |

WISCONSIN-continued

| Scattering-Continued | Cases |
|----------------------|-------|
| Pneumonia | 3 |
| Poliomyelitis | - 9 |
| Scarlet fever | - 44 |
| Smallpox | |
| Tuberculosis | |
| Typhoid fever | |
| Whooping cough | |

WYOMING

| Chicken pox | |
|------------------------------|--|
| Diphtheria | |
| Mumps | |
| Rocky Mountain spotted fever | |
| Scarlet fever | |
| Typhoid fever | |
| Whooping cough | |

Reports for Week Ended August 15, 1925

1

DISTRICT OF COLUMBIA

| DISTRICT OF CODOMDIA | |
|----------------------|-------|
| | Cases |
| Chicken pox | 3. |
| Diphtheria | . 11 |
| Measles | . 3 |
| Pneumonia | 15 |
| Scarlet fever | . 7 |
| Tuberculosis | . 17 |
| Typhoid fever | . 4 |
| Whooping cough | |

NEBRASKA

| Chicken pox |
|----------------|
| Diphtheria |
| Measles |
| Poliomyelitis |
| Scarlet fever |
| Smallpox |
| Tuberculosis |
| Typhoid fever |
| Whooping cough |
| NORTH DAKOTA |

Cerebrospinal meningitis

Chicken pox_____

NORTH DAKOTA-continued

Cases

| Diphtheria | 2 |
|----------------|----|
| Measles | |
| Mumps | |
| Poliomyelitis | 9 |
| Scarlet fever | 10 |
| Smallpox | |
| Tuberculosis | |
| Typhoid fever | |
| Whooping cough | |

SOUTH CAROLINA

| Dengue | 1 |
|----------------|-----|
| Diphtheria | 44 |
| Influenza | 56 |
| Malaria | 428 |
| Measles | 1 |
| Poliomyelitis | 10 |
| Scarlet fever | 13 |
| Smallpox | 16 |
| Tuberculosis | 75 |
| Typhoid fever | 107 |
| Whooping cough | 91 |

SUMMARY OF MONTHLY REPORTS FROM STATES

1

2

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

| State | Cere- bro- spinal menin- gitis | Diph- theria | Influ- enza | Ma- laria | Mea- sles | Pella- gra | Polio- mye- litis | Scarlet fever | Small- pox | Ty- phoid fever |
|---|--|--|-------------------------------------|-------------------------|---|---------------|---|--|--|--|
| JUNE, 1925 Montana JULY, 1925 | | 12 | 12 | | 6 | | 3 | 73 | 17 | 4 |
| Alabama Illinois Maryland Michigan Minnesota New Jersey New York. North Carolina | 3 3 1 3 10 22 | 34 287 67 203 396 268 868 112 | 14 51 22 9 6 7 35 | 480 20 7 2 | 982 158 456 22 533 1,400 15 | 93 1 | 11 26 6 11 109 43 120 12 | 73 351 54 434 335 185. 496 42 | 80 46 1 43 23 11 5 56 | 339 217 101 69 33 104 284 303 |
| North Dakota Ohio Oklahoma ¹ West Virginia | 3 5 5 1 | 5 211 12 33 | 1 23 51 28 | 4 182 | 1 507 5 65 | 0 47 1 | 18 11 6 4 | 49 303 36 44 | 1 180 34 30 | 1 125 514 111 |

1 Tulsa City and Oklahoma City not included.

Number of Cases of Certain Communicable Diseases Reported for the Month of May, 1925, by State Health Officers

| State | Chick- en pox | Diph- theria | Measles | Mumps | Scarlet fever | Small- pox | Tuber- culosis | Ty- phoid fever | Whoop- ing cough |
|---------------------------------|------------------|-----------------|----------|--------|------------------|---------------|-------------------|-----------------------|------------------------|
| Alabama | 180 | 38 | 59 | 189 | 153 | 511 | 340 | 147 | 216 |
| Arizona | 24 | 6 | 396 | 123 | 23 | 3 | 80 | 12 | 27 |
| Arkansas | 58 | 9 | 110 | 102 | 12 | 18 | 1 51 | 44 | 101 |
| California | 995 | 430 | 298 | 1,442 | 511 | 536 | 818 | 39 | 1, 749 |
| Colorado | 130 | 125 | 48 | 289 | 122 | 2 | 1 167 | 10 | 64 |
| Connectieut | 200 | 103 | 985 | 85 | 364 | 2 | 117 | 19 | 481 |
| Delaware | 2 | 10 | 30 | 22 | 18 | 4 | 18 | 1 | 4 |
| District of Columbia | 47 | 65 | 151 | | 92 | 4 | 107 | 9 | 72 |
| Florida | 64 | 31 | 7 | 247 | 12 | 24 | 152 | 59 | 69 |
| Georgia | 236 | 34 | 88 | 389 | 25 | 128 | 198 | 155 | 277 |
| Idaho | 934 | 5 | | 767 | 12 | | | 4 | |
| Illinois | 804 | 370 | 6, 237 | 101 | 1,682 | 150 | 1, 151 | 71 | 1, 184 |
| Indiana | 93 | 84 68 | 38 | 44 | 703 112 | | | 39 | |
| Jowa | 290 | 51 | 58 58 | 586 | 258 | 69 18 | 1 184 | ⁽²⁾ | 34 |
| Kansas Kentucky ³ | 400 | 51 | 90 | 360 | 400 | 18 | 104 | | 232 |
| Louisiana. | 49 | 39 | 10 | 2 | 48 | 50 | 1 203 | 213 | 74 |
| Maine | 111 | 13 | 24 | 463 | 90 | 0 | · 205 54 | 10 | 26 |
| Maryland | 440 | 114 | 145 | 344 | 224 | 4 | 321 | 21 | 512 |
| Massachusetts. | 558 | 351 | 3,756 | 300 | 996 | 1 | 778 | 37 | 664 |
| Michigan | 565 | 239 | 2,331 | 280 | 1, 321 | 86 | 524 | 33 | 759 |
| Minnesota | 443 | 341 | 189 | | 1.033 | 83 | 286 | 13 | 156 |
| Mississippi | 540 | 47 | 547 | 1,619 | 11 | 102 | 351 | 319 | 933 |
| Missouri | 333 | 330 | 142 | 287 | 799 | 93 | 362 | 20 | 165 |
| Montana | 30 | 21 | 66 | 87 | 171 | 17 | 54 | 13 | 50 |
| Nebraska | | 23 | | | 57 | | | 2 | |
| Nevada 4 | | | | ! | | | | | |
| New Hampshire 4 | | | | | | | | | |
| New Jersey | 644 | 300 | 2, 106 | | 985 | 37 | 425 | 27 | 9 13 |
| New Mexico | 14 | 12 | 42 | 48 | 28 | 6 | 149 | 3 | 30 |
| New York | 1, 767 | 1, 573 | 3, 657 | 1,021 | 2,399 | 31 | 1,831 | 140 | 1, 383 |
| North Carolina | 339 | 83 | 116 | | 80 | 253 | | 41 | 458 |
| North Dakota | 41 | 20 | 13 | 48 | 166 | 19 | 10 | 2 | 113 |
| Ohio | 913 | 329 | 1,976 | 327 | 1, 569 | 457 | 668 | 57 | 849 |
| Oklahoma | 88 | | 18 | 71 | 145 | 54 | 210 | 85 | 179 |
| Oregon | 103 | 116 | 13 | 83 | 85 | 52 | 90 | 7 | 106 |
| Pennsylvania | 1,308 | 880 | 8, 159 | 1, 575 | 2,358 | 37 | 551 | 74 | 1, 092 |
| Rhode Island | 24 | 29 | | | 75 | 11 | | 3 | |
| South Carolina South Dakota | 12 | 119 18 | 33 12 | 4 | 32 148 | 133 20 | 250 | 223 | 802 |
| Tennessee 3 | 12 | 10 | 14 | * | 140 | 20 | 9 | 3 | 22 |
| Texas ³ | | | | | | | l | ••••• | |
| Utah | 392 | 57 | 69 | 165 | 39 | | 1 15 | 15 | 386 |
| Vermont | 88 | 12 | 52 | 224 | 41 | | 1 27 | | 28 |
| Virginia | 571 | 82 | 1.248 | | 72 | 45 | 1 279 | 148 | 842 |
| Washington | 377 | 87 | 25 | 375 | 121 | 192 | 145 | 8 | 617 |
| West Virginia | 120 | 48 | 628 | | 210 | 85 | 60 | 35 | 172 |
| Wisconsin | 555 | 140 | 1,718 | 777 | 541 | 243 | 159 | 9 | 451 |
| Wyoming | 37 | 21 | 23 | 32 | 18 | 1 | 12 | | 74 |

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

Case Rates per 1,000 Population (annual basis) for the Month of May, 1925

| State | Chick- en pox | Diph- theria | Measles | Mumps | Scarlet fever | Small- Lox | Tuber- culosis | Ty- phoid fever | Whoop- ing cough |
|-----------------------|------------------|-----------------|------------|-------|------------------|---------------|--------------------------|-----------------------|------------------------|
| Alabama | 0.86 | 0.18 | 0.28 | 0.90 | 0. 73 | 2.44 | 1.62 | 0.70 | 1.03 |
| Arizona | . 69 | .17 | 11.44 | 3.55 | . 66 | . 09 | 2, 31 | . 35 | .78 |
| Arkansas | . 37 | .06 | . 70 | . 65 | . 08 | .11 | 1.32 | . 28 | . 64 |
| California | 2,91 | 1.26 | . 87 | 4.22 | 1.50 | 1.57 | 2.40 | .11 | 5.12 |
| Colorado | 1.50 | 1.44 | . 55 | 3.34 | 1.41 | .02 | 1.93 | . 12 | .74 |
| Connecticut | 1.54 | .79 | 7.57 | . 65 | 2.80 | . 02 | . 90 | . 15 | 3.70 |
| Delaware | . 10 | . 50 | 1.50 | 1.10 | . 90 | . 20 | . 90 | . 05 | . 20 |
| District of Columbia | 1.11 | 1.54 | 3.57 | | 2.18 | . 09 | 2.53 | . 21 | 1.70 |
| Florida | 69 | . 33 | . 08 | 2.67 | . 13 | . 26 | 1.64 | . 64 | .74 |
| Georgia | . 91 | . 13 | . 34 | 1.50 | . 10 | . 49 | . 76 | . 60 | 1.07 |
| Idaho | | . 12 | | | . 29 | | | . 10 | |
| Illinois | 1.58 | . 63 | 10.54 | 1.30 | 2.84 | . 25 | 1.95 | . 12 | 2.00 |
| Indiana | | . 32 | | | 2.70 | | | . 15 | |
| Iowa | .44 | . 32 | . 18 | . 21 | . 53 | . 32 | .00 | (3) | . 16 |
| Kansas | 1.88 | . 33 | . 38 | 3.80 | 1.67 | . 12 | 1, 19 | . 07 | 1.51 |
| Kentucky ³ | | | | . 01 | . 30 | . 31 | 1.27 | 1. 33 | |
| Louisiana | . 31 1. 67 | . 24 . 20 | .06 .36 | 6.97 | 1.35 | .00 | .81 | . 15 | .46 |
| Maine Maryland | 3. 37 | . 20 | 1.11 | 2.64 | 1. 72 | .03 | 2.46 | . 16 | . 39 3. 92 |
| Massachusetts | 3. 37 1. 59 | 1.00 | 10.72 | .86 | 2.84 | .00 | 2.22 | .10 | 3.92 1.89 |
| Michigan | 1.60 | . 68 | 6.61 | .79 | 3.74 | .24 | 1.49 | . 09 | 2.15 |
| Minnesota | 2.03 | 1.57 | .87 | | 4.74 | . 38 | 1.31 | .06 | .72 |
| Mississippi | 3.55 | . 31 | 3.60 | 10.64 | .07 | .67 | 2.31 | 2,10 | 6.13 |
| Missouri | 1.13 | 1. 12 | . 48 | . 97 | 2.71 | . 32 | 1.23 | . 07 | . 56 |
| Montana | . 55 | . 38 | 1.20 | 1.58 | 3.11 | . 31 | . 98 | . 24 | . 91 |
| Nebraska | | .20 | | | . 50 | | | . 02 | |
| Nevada 4 | | | | | | | | | |
| New Hampshire 4 | | | | | | | | | |
| New Jersey | 2.16 | 1.01 | 7.07 | | 3, 31 | . 12 | 1.43 | . 09 | 3.07 |
| New Mexico | . 43 | . 37 | 1.30 | 1.49 | . 87 | . 19 | 4.63 | . 09 | . 93 |
| New York | 1.87 | 1.67 | 3.88 | 1.08 | 2.54 | . 03 | 1.94 | . 15 | 1.47 |
| North Carolina | 1.45 | . 35 | . 50 | | . 34 | 1.08 | | . 17 | 1.95 |
| North Dakota | . 70 | . 34 | . 22 | . 82 | 2.85 | . 33 | . 17 | . 03 | 1.94 |
| Ohio | 1.70 | . 61 | 3.68 | . 61 | 2.92 | . 85 | 1.24 | .11 | 1.58 |
| Oklahoma | . 46 | | . 09 | . 37 | . 76 | . 28 | 1.10 | . 45 | . 94 |
| Oregon | 1.43 | 1.61 | . 18 | 1.16 | 1.18 | . 72 | 1.25 | . 10 | 1.48 |
| Pennsylvania | 1.65 | 1.11 | 10. 31 | 1.99 | 2.98 | . 05 | . 70 | . 09 | 1.38 |
| Rhode Island | | . 53 | | | 1.38 | . 20 | | . 06 | |
| South Carolina | . 16 | . 79 | . 22 | | . 21 | . 88 | 1.65 | 1.48 | 5. 31 |
| South Dakota | . 21 | . 32 | . 21 | . 07 | 2.62 | . 35 | . 16 | . 05 | . 39 |
| Cennessee 5 | | | | - | | | | | |
| Cexas ³ | | | | 2 04 | | ; | 1 90 | | 0.02 |
| Utah | 9.37 | 1.36 | 1.65 | 3.94 | . 93 1. 37 | | ¹ .36 1.90 | . 36 | 9.23 |
| Vermont | 2.94 | . 40 | 1.74 | 7.48 | . 35 | . 22 | 1.34 | .71 | . 94 4. 05 |
| /irginia | 2.74 3.00 | . 39 | . 20 | 2.99 | . 35 | 1.53 | 1. 15 | .06 | 4,05 |
| Vashington | . 88 | . 69 . 35 | 4.62 | 4.89 | 1.54 | . 63 | . 44 | .26 | 4.91 |
| Vest Virginia | 2.33 | . 59 | 7.22 | 3. 27 | 2.27 | 1.02 | . 67 | .04 | 1, 20 |
| Wisconsin | 1.96 | 1.11 | 1. 22 | 1.70 | . 96 | . 05 | .11 | . 04 | 3.93 |
| Wyoming | 1, 96 | 1, 11 | 1. 22 | 1. 70 | . 90 | .05 | • 11 - | | 3. 93 |

¹ Pulmonary. ² Reports not required by law.

Reports received weekly.
 Reports received annually.

^b Reports not received at time of going to press.

RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of July, 1925, to other State health departments by departments of health of certain States

| Referred by— | Polio- myelitis | Scarlet fever | Smallpox | Tuber- culosis | Typhoid fever |
|---|--------------------|------------------|-------------|-------------------|------------------|
| Illinois Minnesota New York Washington | 3 2 | 1 | 3 1 1 | 1 52 | 14 2 |

PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES

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

Los Angeles, Calif.

| Week ended Aug. 8, 1925: | |
|--|--------|
| Number of rats trapped | 2, 289 |
| Number of rats found plague infected | 0 |
| Number of squirrels examined | 917 |
| Number of squirrels found plague infected | 0 |
| Number of mice trapped | 2, 144 |
| Number of mice found plague infected | · 0 |
| Date of discovery of last plague-infected rodent, Aug. 13, 1925. | |
| Date of last human case, Jan. 15, 1925. | |

Oakland, Calif.

(Including other East Bay communities)

| Week ended Aug. 8, 1925: | |
|--|---------|
| Number of rats trapped | 1, 230 |
| Number of rats found to be plague infected | 0 |
| Totals: | |
| Number of rats trapped Jan. 1 to Aug. 8, 1925 | 63, 129 |
| Number of rats found to be plague infected | 21 |
| Number of squirrels examined May 1 to Aug. 1, 1925 | 7, 277 |
| Number of squirrels found to be plague infected | 0 |
| Date of discovery of last plague-infected rat, Mar. 4, 1925. | |
| Date of last human case. Sept. 10, 1919. | |

New Orleans, La.

| Week ended Aug. 8, 1925: | |
|--|-----------|
| Number of vessels inspected | 25 |
| Number of inspections made | 32 |
| Number of vessels fumigated with cyanide gas | 6 |
| Number of rodents examined for plague | 3, 270 |
| Number of rodents found to be plague infected | 0 |
| Totals, Dec. 5, 1924, to Aug. 8, 1925: | |
| Number of rodents examined for plague | 154, 235 |
| Number of rodents found to be plague infected | 12 |
| Date of discovery of last plague-infected rat, Jan. 17, 1925. | |
| Date of last human case occurring in New Orleans, Aug. 20, 1920. | |

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

Diphtheria.—For the week ended August 8, 1925, 34 States reported 839 cases of diphtheria. For the week ended August 9, 1924, the same States reported 1,025 cases of this disease. One hundred cities, situated in all parts of the country and having an aggregate population of nearly 28,700,000, reported 476 cases of diphtheria for the week ended August 8, 1925. Last year for the corresponding week they reported 537 cases. The estimated expectancy for these cities was 570 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty-two States reported 586 cases of measles for the week ended August 8, 1925, and 698 cases of this disease for the week ended August 9, 1924. One hundred cities reported 293 cases of measles for the week this year, and 252 cases last year.

Poliomyelitis.¹—The health officers of 35 States reported 277 cases of poliomyelitis for the week ended August 8, 1925. The same States reported 100 cases for the week ended August 9, 1924.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-four States—this year, 747 cases; last year, 852 cases; 100 cities—this year, 291 cases; last year, 356 cases; estimated expectancy, 230 cases.

Smallpox.—For the week ended August 8, 1925, 34 States reported 202 cases of smallpox. Last year, for the corresponding week, they reported 323 cases. One hundred cities reported smallpox for the week as follows: 1925, 50 cases; 1924, 106 cases; estimated expectancy, 38 cases. One death from smallpox was reported by these cities for the week this year—at Los Angeles, Calif.

Typhoid fever.—One thousand one hundred and twenty-eight cases of typhoid fever were reported for the week ended August 8, 1925, by 34 States. For the corresponding week of 1924 the same States reported 761 cases. One hundred cities reported 226 cases of typhoid fever for the week this year, and 248 cases for the corresponding week last year. The estimated expectancy for these cities was 212 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 100 cities as follows: 1925, 315 deaths; 1924, 275 deaths.

¹ Figures given in Public Health Reports Aug. 21, 1925, page 1774, are erroneous. The item should have read as follows: "The health officers of 35 States reported 221 cases of poliomyelitis for the week ended Aug. 1, 1925. The same States reported 76 cases for the week ended Aug. 2, 1924."

City reports for week ended August 8, 1925

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

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

| | | | Diph | theria | Infl | uenza | | | |
|-------------------------------------|---|---|---|------------------------|------------------------|-------------------------|---|----------------------------------|--|
| Division, State, and city | Population July 1, 1923, estimated | Chick- en pox, cases re- ported | Cases, esti- mated expec- tancy | Cases re- ported | Cases re- ported | Deaths re- ported | Mea- sles, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths re- ported |
| NEW ENGLAND | | | | | | | | | |
| Maine: Portland | 73, 129 | 0 | 2 | 0 | 0 | 0 | | | |
| New Hampshire: Concord | 22, 408 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Vermont: | | | | | | | | . 0 | . 0 |
| Barre Burlington | ¹ 10, 008 23, 613 | 0 | 0 | . 0 | 0 | 0 | 0 | 0 | 0 |
| Massachusetts: Boston | 770, 400 | 5 | 33 | 12 | 3 | 1 | 30 | 4 | |
| Fall River | 120.912 | 2 | 2 | 3 | 0 | Ō | 4 | 1 | 8 0 |
| Springfield Worcester | 144, 227 191, 927 | 0 1 | 1 2 | 1 6 | 0 0 | 0 | 0 12 | 0 | 01 |
| Rhode Island: Pawtucket | 68, 799 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Providence | 242, 378 | ŏ | 5 | ĭ | ŏ | ĭ | 4 | Ŏ | ĭ |
| Connecticut: Bridgeport | 1 143, 555 | 0 | 4 | 8 | 0 | 0 | 0 | 0 | . 0 |
| Hartford New Haven | ¹ 138, 036 172, 967 | 0 1 | 32 | 2 | 0 | 0 | 03 | 1 | 1 2 |
| MIDDLE ATLANTIC | | - | _ | - | - | _ | - | | - |
| New York: | | | [| | | | | | |
| Buffalo New York | 536, 718 5, 927, 625 | 0 | 11 129 | 3 103 | 07 | 03 | 10 44 | 1 8 | 2 84 |
| Rochester | 317, 867 | 0 | 4 | 1 | 0 | 0 | 30 | 0 | 2 |
| Syracuse New Jersey: | 184, 511 | 2 | 3 | 0 | 0 | 0 | 1 | 0 | |
| Camden Newark | 124, 157 438, 699 | 0 5 | 2 7 | 3 | 0 | 0 | 2 16 | 02 | 0 6 |
| Trenton | 127, 390 | ŏ | 2 | ĩ | ŏ | ŏ | 1 | õ | ŏ |
| Pennsylvania: Philadelphia | 1, 922, 788 | 5 | 32 | 31 | 0 | 0 | 10 | 4 | 18 |
| Pittsburgh Reading | 613, 442 110, 917 | 1 | 14 2 | 10 1 | 0 | 0 | 13 9 | 0 | 15 0 |
| EAST NORTH CENTRAL | 110,011 | Ĩ | - | | , i | Ĩ | 1 | Ŭ, | Ŭ |
| Ohio: | | | 1 | | | | - | | |
| Cincinnati | 406, 312 | 0 26 | 6 17 | 0 32 | 04 | 1 | 0 13 | 03 | 3 4 |
| Cleveland Columbus | 888, 519 261, 082 | 1 | 2 | 2 | 0 | 1 | 0 | 0 | 2 |
| Toledo Indiana: | 268, 338 | 4 | 4 | 2 | 0 | 1 | 3 | 0 | 0 |
| Fort Wayne Indianapolis | 93, 573 342, 718 | 0 | 2 5 | 0 | 0 | 0 | 0 | 0 | 0 3 |
| South Bend | 76, 709 | ŏ | 1 | 7 | ŏ | ŏ | ŏ | ŏ | 0 |
| Terre Haute Illinois: | 68, 939 | | 0 | - | | - | | | |
| Chicago | 2, 886, 121 55, 968 | 8 | 70 | 47 | 2 | 2 | 25 | 2 | 23 |
| Cicero Springfield | 61, 833 | 1 | i - | 1 | 0 | 0 | 2 | 0 | . 0 |
| Michigan: Detroit | 995, 668 | 7 | 30 | 24 | 0 | 0 | 7 | 0 | 12 |
| Flint Grand Rapids | 117, 968 145, 947 | 0 | 32 | 3 | 0 | 0 | 0 | 0 | 2 1 |
| ¹ Population Jan. 1, 192 | | • • | ~ 1 | - ' | ~1 | | | J. | • |

¹ Population Jan. 1, 1920.

53125°-25†----3

| | | | Diph | theria | Infi | lenza | | | |
|------------------------------------|---|---|---|------------------------|------------------------|-------------------------|---|----------------------------------|--|
| Division, State, and city | Population July 1, 1923, estimated | Chick- en pox, cases re- ported | Cases, esti- mated expec- tancy | Cases re- ported | Cases re- ported | Deaths re- ported | Mea- sies, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths re- ported |
| EAST NORTH CENTRAL- | | | | | | | | | |
| Wisconsin: | | | | | | | | | |
| Madison | 42, 519 484, 595 | 0 | 0 | 4 | 0 | 0 | 8 | 0 | 0 |
| Milwaukee | 484, 595 | 9 0 | 9 1 | 8 | 0 | 0 | 3 | 5 | 0 |
| Superior | 64, 393 1 39, 671 | ·ŏ | Ō | ı 1 | ŏ | ŏ | ŏ | ŭ | 0 |
| WEST NORTH CENTRAL | | | | | | | | | |
| Minnesota: | | | | | - | | | | |
| Dulath | 106, 289 | 1 | 1 | 0 | D | 0 | 1 | 0 | 1 |
| Minneapolis St. Paul | 409, 125 241, 891 | 21 3 | 10 10 | 18 8 | 0.0 | 0 | 1 | 0 1 | 43 |
| Iowa: | | • | 10 | 0 | | | Ű | | 3 |
| Davenport | 61, 262 | 0 | 0 | 0 | D | | 0 | 0 | |
| Des Moines | 140, 923 | 9 | 2 | 1 | 0 | | 0 | . 0 | |
| Sioux City Waterloo | 79, 662 39, 667 | 0 | 0 1 | 1 | 0 | | 0 | 2 | •••••• |
| Missouri: | | | | | | | | | |
| Kansas City | 351, 819 | 1 | - A | 1 | 0 | 0 | 0 | 1 | 8 |
| St. Joseph | 78, 232 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| St. Louis | 803, 853 | 1 | 20 | 19 | 0 | 0 | 2 | 0 | •••••• |
| Fargo | 24, 841 | 1 | 0 | | | • | | | |
| Grand Forks | 14, 547 | 0 | Ō | 0 | 0 | 0 | 0 | 0 | ō |
| South Dakota: | | | | _ | | | | | |
| Aberdeen | 15, 829 29, 206 | 0 1 | 0 | 0 | 8 | 0 | 1 | 1 | 0 |
| Nebraska: | 20, 200 | | - 1 | • | | U | | | 0 |
| Lincoln | 58, 761 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| Omaha | 204, 382 | 0 | 4 | 1 | 0 | . 0 | 1 | 0 | 6 |
| Kansas: Topeka | 52, 555 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| Wichita | 79, 261 | ĭ | 1 | 3 | ŏ | ŏ | ě | Ð | 1 |
| SOUTH ATLANTIC | | | | | | | | | |
| Delaware: | | | | | | | | | |
| Wilmington | 117, 728 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 1 |
| Maryland: | 772 500 | . | 9 | | | | | | |
| Baltimore Cumberland | 773, 580 32, 361 11, 301 | 1 | 0 | 10 | 2 0 | 1 | 8 0 | 11 0 | 2 |
| r regerick | 11, 301 | ŏ | ŏ | ō | ŏl | ŏ | ŏ | ŏ | ő |
| District of Columbia: | 1 | 1 | | | | | | | |
| Washington | 1 437, 571 | 0 | 4 | 1 | 0 | 0 | 4 | 8 | 11 |
| Lynchburg | 30, 277 | 0 | 0 | ol | ol | 0 | 1 | 0 | 1 |
| Norfolk | 159,089 | 0 | 0 | 0 | ŏ | ŏ | Ó | 0 | 2 |
| Richmond | 181.044 | 1 | 3 | 10 | | 1 | 0 | 1 | 2 |
| Roan ok e Vest Virginia: | 55, 502 | 1 | 1 | 1 | 0 | 0 | 5 | Ō | Ō |
| Charleston | 45, 597 | 0 | O | 0 | 0 | 0 | 0 | 0 | 0 |
| Huntington | 57, 918 | 0 | 0 | 0 [| 0 | | ŏ | ŏ. | |
| Wheeling | ¹ 56, 208 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| Iorth Carolina: Raleigh | 29, 171 | o | 0 | o | 0 | 0 | . 0 | 0 | 0 |
| Wilmington | 35, 719 1 | ŏ | ŏ | ŏ | ŏ | ŏ | i | ŏ | ŏ |
| Winston Salem | 56, 230 | Ö | ĩ | Õ | ŏ | ŏ | ō | ŏ | ŏ |
| outh Carolina: | | | | | | _ | | _ | |
| Charleston Columbia | 71, 245 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Greenville | 39, 688 25, 789 | 0 | 0 | 0 | 0. | 0 | 8 | 1 | ō |
| eorgia: | | | | | 4 | | | 1 | |
| Atlanta | 222, 963 | 0 | 2 | 1 | 5 | 0 | 0 | 1 | 3 |
| Brunswick Savannah | 15, 937 89, 448 | 0 | 0 | 0 | D | 0 | 0 | 0 | 0 0 |
| lorida: | 07, 110 | " | v | 1 | 0 | 0 | 0 | 0 | U |
| | | | | 1 | | | | | |
| St. Petersburg Tampa | 24, 403 56, 050 | 0 | 0 | 0 | 01 | 01 | 8 | 0 | 1 |

Population Jan. 1, 1920.

| | | | Diph | theria | Influ | lenza | | | |
|---|---|---|---|------------------------|------------------------|-------------------------|---|----------------------------------|--|
| Division, State, and city | Population July 1, 1923, estimated | Chick- en pox, cases re- ported | Cases, esti- mated expect- ancy | Cases re- ported | Cases re- ported | Deaths re- ported | Mea- sles, cases re- ported | Mumps, cases re- ported | Pneu- monia, deaths re- ported |
| EAST SOUTH CENTRAL | | | | | | | | | |
| Kentucky: Covington Louisville | 57, 877 257, 671 | 0 | 1 2 | 1 0 | 0 | 0 | 0 | 0 | |
| Tennessee: Memphis Nashville | 170, 067 121, 128 | 0 | 2 1 | 30 | 0 | 0 | 0 1 | 0 | |
| Alabama: Birmingham Mobile Montgomery | 195, 901 63, 858 45, 383 | 0 0 0 | 2 1 1 | . 0 1 0 | 0 | 1 0 0 | 0 0 0 | 0 0 0 | 3 |
| WEST SOUTH CENTRAL | 10,000 | Ů | 1 | v | v | Ů | v | Ū | |
| Arkansas: Fort Smith Little Rock | 30, 635 70, 916 | 0 | 1 | 0 | 0 | 0 | 0 0 | 0 | ō |
| Louisiana: New Orleans Shreveport | 404, 575 54, 590 | 0 | 5 2 | 3 0 | 1 0 | 1 0 | . 0 | 0 | 6 |
| Oklahoma: Oklahoma Texas: | 101, 150 | 0 | 1 | o | 0 | 0 | 0 | 0 | 1 |
| Dallas Galveston Houston San Antonio | 177, 274 46, 877 154, 970 184, 727 | 1 0 0 1 | 3 0 2 0 | 0 1 0 1 | 0 0 0 | · 0 0 0 | 000000000000000000000000000000000000000 | 2 0 0 | 3 0 2 2 |
| MOUNTAIN | | _ | - | _ | - | | | | |
| Montana: Billings Great Falls Helena | 16, 927 27, 787 1 12, 037 | 1 0 | 0 1 1 | 0 | 0 | 0 0 | 1 0 | 3 1 | . 0 |
| Missoula Idaho: | 1 12, 668 | 0 | Ô | 0 | 0 | 0 | 0 | 0 | Ō |
| Boise Colorado: | 22, 806 | 2 1 | 1 | 0 6 | 0 | 0 | 0 1 | 0 3 | 0 |
| Denver Pueblo New Mexico: | 272, 031 43, 519 | ò | 1 | 0 | 0 | | Ô | 0 | |
| Albuquerque Arizona: | 16, 648 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Phoenix Utah: Salt Lake City | 33, 899 126, 241 | 5 | 2 | 1 | 0 | 0 | 0 | 5 | 0 |
| Nevada: Reno | 12, 429 | o | o | 0 | 0 | 0 | • 0 | o | 0 |
| PACIFIC | ł | | | | | | | | |
| Washington: Seattle Spokane Tacoma | ¹ 315, 685 104, 573 101, 731 | 4 4 2 | 4 2 2 | 2 0 5 | 0 0 0 | 0 | 0 0 0 | 8 0 0 | i |
| Oregon: Portland | 273, 621 | 2 | 4 | 12 | 0 | 0 | 2 | 4 | 3 |
| California: Los Angeles Sacramento San Francisco | 666, 853 69, 950 539, 038 | 8 0 13 | 25 2 12 | 16 5 23 | 1 0 2 | 0 | 6 0 4 | 9 0 2 | 13 1 4 |

| | Scarl | et fever | | Smallp | 20 5 : | Tuber- | Т | phoid f | ever | Whoop | |
|--|--|-------------------|---|------------------------|-------------------------|--------------------------------|---|------------------------|-------------------------|---|---------------------------|
| Division, State, and city | Cases, esti- mated expect ancy | Cases re- | Cases, esti- mated expect- ancy | Cases re- ported | Deaths ré- ported | culo- sis, denths re- | Cases, esti- mated expect- ancy | Cases re- ported | Deaths re- ported | ing cough, cases re- ported | Deaths, all causes |
| NEW ENGLAND | | | | | | | | | | | |
| Maine: Portland New Hampshire: | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | .0 | 13 |
| Concord Vermont: | 1 | 0 | 0 | 0 | 0 | 0 | Q | Q | 0 | . 5 | 4 |
| Barre Burlington Massachusetts: | 0 | 0 | 0 | 000 | 0 0 | 0 | 0 | 0 | 0 | 6 0 | 2 5 |
| Boston Fall River | 11 | 28 1 | 0 | 0 | 0 | 9 0 | 4 | 5 0 | 1 0 | 5 8 2 | 180 |
| Springfield Worcester | 2 | 0 | 0 0 | Ŏ O | Ŏ | Ŭ 0 | 1 | Ŏ | Ŭ O | 23 | 23 33 44 |
| Rhode Island: Pawtucket Providence | · 02 | 0 4 | 0 0 | 0 0 | 0 0 | 2 4 | 0 1 | 0 3 | 0 0 | 1 2 | 16 38 |
| Connecticut: Bridgeport Hartford New Haven | 2 1 1 | 0 1 0 | 0 0 | 0 | 0 0 0 | 1 2 0 | 0 1 3 | 0 2 | 0 | 0 4 18 | 22 17 35 |
| MIDDLE ATLANTIC | | | Ů | Ŭ | Ů | Ů | | 2 | Ĩ | 10 | |
| New York: Buffalo New York Rochester Syracuse New Jersey: | 5 30 4 3 | 7 17 4 0 | 0 1 0 0 | 0 0 0 0 | 0 0 0 0 | 0 1 193 3 4 | 2 34 1 0 | 1 35 2 0 | 0 1 0 0 | 7 76 0 15 | 106 1, 108 53 41 |
| Camden Newark Trenton | 0 4 0 | 0 4 0 | 0 0 0 | 0 0 0 | 0 0 0 | 0 9 4 | 1 2 1 | 0 1 0 | 0 0 0 | 19 42 2 | 22 88 26 |
| Pennsylvania: Philadelphia Pittsburgh Reading Scranton | 15 6 0 1 | 17 17 0 | 9 0 0 0 | 0 0 0 | 0 0 0 | 28 11 0 | 12 4 2 0 | 6 0 0 | 0 0 0 | 85 9 7 | 398 149 24 |
| BAST NORTH CEN- | | | | | | | | | | | |
| Qhio: Cincinnati Cleveland Columbus Toledo Indiana: | 3 6 1 5 | 1 4 0 2 | 1 2 0 1 | 0 0 1 0 | 0 0 0 0 | 13 16 5 2 | 2 4 2 2 | 2 5 1 4 | 0 1 0 0 | 5 59 8 19 | 119 147 65 60 |
| Fort Wayne Indianapolis South Bend Terre Houte | 1 3 1 0 | 0 0 0 | 0 0 0 | 0 5 0 | 0 0 0 | 0 5 1 | 0 3 0 0 | 5 1 0 | 0 1 0 | 3 46 0 | 25 110 11 |
| Illinois: Chica go Cicero | 26 0 | 31 | 0 | 0 | 0 | 4 4 | 5 | 8 | 1 | 84 | 589 |
| Springfield Michigan: | 1 | 2 | 0 | 0 | 0 | 1 | 0.1 | 0 | 0 | 1 | 14 |
| Flint Grand Rapids | 20 2 2 | 24 0 2 | 3 1 0 | 0 1 0 | 0 0 0 | 25 1 2 | 5 1 1 | 5 0 0 | 2 0 0 | 78 10 5 | 218 25 26 |
| Wisconsin: Madison Milwaukee Racine Superior | 1 10 1 1 | 0 1 2 1 | 0 2 1 1 | 0 1 0 | 0 0 0 | 9 6 2 1 | 0 1 0 0 | 0 1 0 0 | 0 0 0 0 | 6 71 3 0 | 4 79 10 14 |
| VEST NORTH CEN- TRAL | | | | | | | | | | | |
| Minnesota: Duluth Minneapolis St. Paul | 1 6 5 | 3 8 8 | 1 2 2 | 0 0 2 | 0 0 0 | 2 1 2 | 0 2 1 | 2 0 7 | 0 0 0 | 1 5 16 | 18 76 |

City reports for week ended August 8, 1925-Continued

¹ Pulmonary tuberculosis only.

Scarlet fever Smallpox Typhoid fever Tuber Whoop culoing Deaths, Division, State, Cases, Cases sis, Cases. cough, estiall and city esti-Cases Cases Deaths death esti-Cases Deaths cases mated mated CBUSES mated rere re rerere re ported expect expect ported ported ported expect ported ported ported ancy ancy ancy WEST NORTH CEN-TRAL-continued Towa: Davenport__ 0 0 0 0 1 0 n Des Moines... Ž õ ŏ 1 1 0 ----------Sioux City ō ŏ ō ō 0 0 O --------ŏ Waterloo ... Ô Ô Missouri: Kansas City... 2 0 0 3 3 103 37 3 1 0 7 29 0 St. Joseph ō Ō Õ Õ ż Õ 2 0 0 St. Louis. 6 29 Õ õ ĝ 7 15 209 1 7 Ó North Dakota: Fargo. 0 0 0 Grand Forks ... Ô 0 Ò 0 0 Ô Ō Ō -------------South Dakota: Aberdeen. 1 0 0 0 0 0 1 Sioux Falls Ō 2 Ô Õ Ō õ Õ ō 6 1 0 Nebraska: Lincoln..... 0 0 10 0 0 0 0 1 0 0 5 Omaha $\tilde{\mathbf{2}}$ 1 2 1 2 0 i 0 0 51 1 Kansas: Topeka..... 0 1 0 0 0 1 1 0 0 18 8 Wichita ĩ î ĭ 3Ŏ Ô Ō 0 2 Ô 17 1 SOUTH ATLANTIC Delaware: Wilmington.. 0 0 0 0 0 1 0 0 Ò 20 1 Maryland: **Baltimore** 6 0 1 0 0 14 9 7 1 100 185 Cumberland.... 0 Ō 0 0 Ó 3 0 0 Ō 13 Frederick Ó Ô Ó Ò Ó Ō Ó Ó 0 Õ 2 District of Columbia: Washington ____ 3 0 0 0 0 12 6 3 1 21 138 Virginia: Lynchburg.... Norfolk..... 0 1 0 0 0 0 1 1 1 4 12 ō 0 0 0 0 0 1 3 0 6 49 Richmond.... 2 3 Ô Ó 0 5 3 6 1 ĺ Roanoke_____ West Virginia: 1 1 Ó Ô Ó i 2 Ô 2 Ó 18 0 0 2 0 20 Charleston. 1 1 1 0 1 2 Huntington___ 0 0 0 1 1 5 0 õ 3 Wheeling..... 1 2 0 0 1 1 0 0 20 North Carolina: 19 0 0 Raleigh 0 0 O 3 1 1 0 4 Wilmington. Ó Ô Ô Ó Ò Ō Ō Ô 14 1 0 Winston-Salem i Õ Ô Õ Õ 4 2 Ô ĩ Ó 18 South Carolina: n 0 0 2 0 2 20 Charleston ... 1 1 1 1 Columbia 0 0 Ð 1 2 a 2 Greenville $\overline{2}$ ī 0 Ô 0 0 Ō 0 1 0 1 Georgia: 0 45 Atlanta. 2 1 2 n A 3 4 4 1 Brunswick 0 0 0 0 0 0 0 2 0 0 3 Savannah.... 1 0 0 0 0 5 2 1 1 0 34 Florida: St. Petersburg. 0 0 0 0 n 0 0 n ٥ n 9 21 Tampa..... 0 0 0 0 0 0 0 0 0 n EAST SOUTH CEN-TRAL Kentucky: Covington..... Louisville..... 0 1 0 0 n 3 0 0 0 1 77 1 2 0 0 0 5 б 6 1 4 Tennessee: Memphis..... 2 2 42 n 0 n n 6 16 1 1 3 33 Nashville..... ō 0 0 1 5 0 6 16 1 Alabama: 2 0 0 2 62 Birmingham. 7 4 6 4 0 40 ō 13 Mobile..... 1 0 1 0 A 1 42 n ŏ ò Montgomery ... 0 0 n 0 1

| : | Scarle | t fev a r | | Smallpo | x | Tuber- | Tj | phoid 1 | iever | Whoop | |
|--|---|------------------------|---|------------------------|-------------------------|--|---|------------------------|-------------------------|---|--------------------------|
| Division, State, and city | Cases, esti- mated expect- ancy | Cases re- ported | Cases, esti- mated expect- ancy | Cases re- ported | Deaths re- ported | culo- sis, deaths re- ported | Cases, esti- mated expect- ancy | Cases re- ported | Deaths re- ported | ing cough, cases re- ported | Deaths, all causes |
| WEST SOUTH CEN- TRAL | | | | | | | | | | | |
| Arkansas: Fort Smith Little Rock | 1 0 | 3 0 | 0 | 0 | ō | 2 | 12 | 1 | 0 | 1 | |
| Louisiana: New Orleans Shreveport Oklahoma: | 1 0 | 6 0 | 0 1 | 1 0 | 0 | 12 3 | 5 1 | 6 4 | 2 1 | 15 2 | 138 25 |
| Oklahoma Texas: | 0 | 0 | 1 | | 0 | 0 | 2 | 10 | 0 | . 0 | 20 |
| Dallas Galveston Houston San Antonio | 2 0 1 0 | 3 0 0 0 | 0 0 0 1 | 2 0 0 0 | 0 0 0 0 | 3 0 2 16 | 5 1 1 0 | 7 0 2 4 | 0 0 1 1 | 11 9 0 0 | 38 7 48 55 |
| MOUNTAIN | 1 | | | | | | | | | | |
| Montana: Billings Great Falls Helena. | 0 | 0 | 0 1 0 | 0 | 0 | 0 0 | 0 1 0 | 0 0 | 0 0 | 0 6 | 2 12 |
| Missoula | ŏ | 0 | ŏ | 0 | Ō | 0 | ŏ | 1 | 0 | 0 | 7 |
| Boise Colorado: | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Denver Pueblo | 3 1 | 2 0 | 2 0 | 0 | 0 | 7 0 | 3 1 | 5 0 | 3 0 | 23 1 | 76 15 |
| New Mexico: Albuquerque Arizona: | o | 0 | 0 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 7 |
| Utah: | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 1 | 29 |
| Salt Lake City Nevada: | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 5 | 1 | 17 | 26 |
| Reno | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| PACIFIC | | | | | | | | | | | |
| Washington: Seattle | 3 | 0 | 2 | 3 | | | 1 | 1 | | 26 | |
| Spokane Tacoma | 2 | 5 | 2 | Ö | | | 0 | 0 | | - 4 | |
| Oregon: | - | - | U | 2 | 0 | 0 | 0 | 1 | 0 | 4 | 30 |
| Portland California: | 3 | 0 | 4 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | |
| Los Angeles Sacramento San Francisco. | 5 1 5 | 12 2 3 | 1 0 1 | 15 0 3 | 1 0 0 | 10 3 9 | 5 2 2 | 2 1 1 | 2 0 0 | 27 0 21 | 172 12 113 |

| | Cerel | prospinal ningitis | Let | hargic phalitis | Pe | llagra | Polion tile | oyelitis paraly | s (infan- ysis) | Typł | us fever |
|---|--------|-----------------------|--------|--------------------|--------|--------|---|--------------------|--------------------|----------|----------|
| Division, State, and city | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases, esti- mated expect- ancy | Cases | Deaths | Cases | Deaths |
| NEW ENGLAND | | | | | | | | | | | |
| Massachusetts: | | | | | | | | | | | |
| Boston Rhode Island: Providence | 0 | 0 | 1 0 | 0 | 1 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| MIDDLE ATLANTIC | Ů | v | v | U | U | Ű | U | 1 | U | Ů | U |
| New York: | | | | | | | | | | | |
| New York New Jersey: | 3 | 0 | 5 | 7 | 0 | 0 | 6 | 17 | 5 | 0 | 0 |
| Camden Newark | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 02 | 0 | 0 | 0 |
| Pennsylvania: Philadelphia | ů 0 | 0 | 0 | 1 | 2 | 1 | ů O | 0 | 0 | , v O | 0 |
| Pittsburgh | υŎ | ŏ | ŏ | Ō | õ | Ô | ŏ | Å | ŏ | ŏ | ŏ |
| BAST NORTH CENTRAL | | | | | | | | | | | |
| Ohio: Cleveland | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Indiana: Indianapolis | 0 | 1 | 0 | 0 | 0 | 0 | . 1 | 0 | 0 | 0 | 0 |
| Illinois: Chicago | 1 | 1 | 0 | 0 | 0 | 0 | 5 | 3 | 0 | 0 | 0 |
| Springfield | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 0 | 0 |
| WEST NORTH CENTRAL | 1 | [| | | | | | | | | |
| Minnesota: Duluth | 0 | 0 | 0 | 0 | 0 | 0 | 0 | . 1 | 0 | 0 | 0 |
| Minneapolis St. Paul | 1 | 0 | 0 | 0 | 00 | 0 | 1 0 | 8 1 | 0 | 0 | 0 0 |
| Iowa: Davenport | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Missouri: Kansas City | 2 | 1 | 0 | Q | 0 | o | 0 | 4 | 0 | 0 | 0 |
| St. Joseph South Dakota: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| Sioux Falls Nebraska: | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Omaha | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 0 |
| SOUTH ATLANTIC | | | | | | | | | | | |
| Maryland: Baltimore | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |
| District of Columbia: Washington | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Virginia: Roanoke | . 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| North Carolina: Raleigh South Carolina: | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | Ŭ |
| Charleston | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Georgia: Atlanta | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 |
| EAST SOUTH CENTRAL | | | | | | | | | | | |
| Tennessee: Memphis | 0 | o | 0 | 0 | 0 | 2 | o | 0 | 0 | 0 | 0 |
| Alabama: Birmingham | o | o | Ĩ | • | 0 | - | 1 | o | 0 | 0 | 0 |

| | Cerebrospina meningitis | | Let | hargi c phalitis | Pe | lingra | Polion tile | paraly | Typhus fever | | |
|---|----------------------------|-------------|-------------|----------------------------|-------------|-------------|---|--------------|--------------|-------------|-------------|
| Division, State, and city | Cases | Deaths | Cases | Deaths | Cases | Deaths | Cases, esti- mated expect- ancy | Cases | Deaths | Cases | Deaths |
| WEST SOUTH CENTRAL | | | | | | | | | | | |
| Arkansas: Fort Smith Louisiana: | 1 | 0 | 0 | 0 | 0 | 0 | o | 0 | · 0 | 0 | 0 |
| New Orleans Shreveport Texas: | 0 0 | 0 0 | 0 0 | 0 1 | 1 0 | 2 1 | 0 | 0 0 | 0 | 0 | 0 |
| Houston San Antonio | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | · 0 1 | 0 0 | 0 0 | 0 1 | 1 0 | .0 0 |
| MOUNTAIN | | | | | | | | | | | |
| Colorado: Denver Utah: | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 1 | 0 | 0 |
| Salt Lake City | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PACIFIC | | | | | | | | | | | |
| California: Los Angeles Sacramento San Francisco | 1 0 0 | 0 0 0 | 0 1 0 | 0 1 0 | 0 0 0 | 0 0 0 | 0 0 1 | 17 2 8 | 2 0 0 | 0 0 0 | 0 0 0 |

The following table gives the rates per hundred thousand population for 105 cities for the 10-week period ended August 8, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 105 cities reporting cases had an estimated aggregate population of nearly 29,000,000 and the 97 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, May 31 to August 8, 1925-Annual rates per 100,000 population 1

| | | | | | Week e | nded— | | | | |
|---|--|--|---|--|---|---|--|--|--|--|
| | June 6 | June 13 | June 20 | June 27 | July 4 | July 11 | July 18 | July 25 | Aug. 1 | Aug.8 |
| 105 cities | 158 | 120 | 119 | \$ 116 | 3 9 3 | 3 96 | 3 79 | 4 78 | 178 | • 86 |
| New England. Middle Atlantic. East North Central. West North Central. Bouth Atlantic. East South Central. Wountain. Pacific. | 129 244 99 189 91 11 42 76 145 | 94 156 95 145 57 11 70 181 165 | 97 106 93 133 51 6 74 191 113 | 127 163 284 114 73 34 46 105 107 | 117 96 287 131 41 6 60 181 13 145 | 62 127 2 89 93 55 23 42 105 125 | 62 97 273 85 26 11 28 124 99 | 62 91 268 107 45 11 70 115 104 | 62 92 ¹ 74 ¹ 100 ¹⁹ 50 11 46 153 ¹³ 75 | 8 7 10 9 10 5 2 2 2 2 10 5 2 3 2 2 10 5 14 5 14 5 |
| , | | 1 | MEASL | ES CAS | BE RAT | res | | | | |
| 105 cities | 619 | 582 | 434 | ¹ 303 | 1 228 | 1 193 | ¥ 159 | 4 105 | \$ 74 | 6 53 |
| New England Middle Atlantic Bast North Central. West North Central. | 872 774 893 114 | 892 727 844 135 | 634 544 592 87 | 407 382 2 404 60 | 350 258 321 31 | 283 249 \$225 \$5 | 261 199 191 29 | 216 128 119 19 | 186 77 272 29 | 135 69 7 45 9 11 |
| South Atlantic East South Central. West South Central. Mountain | 410 132 28 38 | 297 212 14 95 | 349 114 19 76 | 278 132 5 95 | 262 97 5 38 | 211 120 0 57 | 148 80 0 29 | 95 63 5 38 | ¹⁰ 71 29 0 105 | 42 11 11 20 |
| Pacific | 165 | 87 SCAF | 84 LET F | 52 EVER | D 37 | 41 RATES | 64 | 20 | 13 37 | . 29 |
| 105 cities | 267 | 174 | 165 | * 117 | 3 96 | 2 90 | 2 61 | 4 57 | \$ 57 | • 53 |
| New England Middle Atlantic East North Central. | 266 263 317 | 179 156 204 | 142 145 217 | 107 100 157 | 112 79 122 | 147 81 2 97 | 80 45 2 67 | 72 43 167 | 75 37 364 | 102 33 7 51 |
| West North Central. South Atlantic | 481 130 126 | 325 61 160 | 328 61 160 | 184 45 91 | 168 59 74 | 143 45 126 | 108 47 80 | * 124 16 29 | ⁶ 126 ¹⁹ 35 63 | * 119 22 63 |
| West South Central Mountain Pacific | 88 334 151 | 46 277 162 | 37 143 116 | 56 210 107 | 46 105 13 71 | 9 153 52 | 23 86 61 | 32 162 46 | 31 86 13 66 | 56 11 39 |

DIPHTHERIA CASE RATES

SMALLPOX CASE RATES

12 71

11 66

| 105 cities | 46 | 37 | 36 | ¥ 25 | ³ 14 | ² 16 | * 15 | 4 10 | ³ 10 | \$ g |
|---|--|---|---|---|--|---|--|---|---|--|
| New England Middle Atlantic East North Central South Atlantic East South Central West South Central Wountain Pacific | 0 4 65 95 39 114 32 38 191 | 0 2 42 52 22 297 5 29 148 | 0 1 45 60 30 200 19 19 19 | 0 22) 37 18 132 0 29 171 | 0 1 14 17 10 63 5 29 12 §9 | 2 0 212 21 24 80 5 19 102 | 2 1 2 10 17 8 46 14 19 119 | 5 0 28 8 13 16 40 5 0 67 | 0 24 \$15 102 23 5 57 13 120 | 0 76 99 22 51 14 12 0 67 |

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1923.
² Cieero, III., not included. Report not received at time of going to press.
³ Cicero, III., and Spokane, Wash., not included.
⁴ Cicero, III., and Fargo, N. Dak., not included.
⁴ Cicero, III., Fargo, N. Dak., Tampa, Fla., and San Francisco, Calif., not included.
⁴ Terre Haute, Ind., Cicero, III., Waterloo, Iowa, Fargo, N. Dak., and Helena, Mont., not included.
⁵ Terre Haute, Ind., and Cicero, III., not included.
⁶ Fargo. N. Dak. not included.

¹ Terre Halle, ind., and Citero, in., not included.
⁹ Fargo, N. Dak., and Waterloo, Iowa, not included.
¹⁰ Tampa, Fla., not included.
¹¹ Helena, Mont., not included.
¹² Spokane, Wash., not included.
¹³ San Francisco, Calif., not included.

Pacific

Summary of weekly reports from cities, May 31 to August 8, 1925-Annual rates per 100,000 population -- Continued

| TYPHOID I | FEVER | CASE | RATES |
|-----------|-------|------|-------|
|-----------|-------|------|-------|

| | | | | | Week e | | | | | |
|---------------------|--------|---------|---------|---------|-------------|---------|---------|---------|------------------|--------|
| | June 6 | June 13 | June 20 | June 27 | July 4 | July 11 | July 18 | July 25 | Aug. 1 | Aug. 8 |
| 105 cities | 25 | 28 | 22 | 1 27 | a 35 | 2 35 | 2 38 | + 35 | ¥ 40 | 641 |
| New England | 30 | 25 | 20 | 17 | 22 | 25 | 32 | 22 | 22 | 27 |
| Middle Atlantic | 26 | 17 | 14 | 18 | 15 | 17 | 25 | 21 | 30 | 23 |
| East North Central. | 10 | 10 | 4 | 19 | 10 | 3 14 | 212 | 38 | 10 | 7 21 |
| West North Central. | 8 | 25 | 12 | 10 | 21 | 44 | 44 | * 40 | ⁸ 48 | • 43 |
| South Atlantic | 41 | 65 | 49 | 71 | 69 | 59 | 55 | 53 | ¹⁰ 66 | 59 |
| East South Central. | 40 | 120 | 80 | 91 | 200 | 177 | 223 | 177 | 183 | 274 |
| West South Central. | 88 | 116 | 130 | 148 | 246 | 185 | 134 | 172 | 178 | 130 |
| Mountain | 76 | 48 | -38 | 0 | 10 | 29 | 19 | 48 | 57 | 11 107 |
| Pacific | 9 | 15 | 6 | 20 | 11 22 | 17 | 32 | 29 | 13 25 | 17 |

INFLUENZA DEATH RATES

| 105 cities | 11 | 7 | 6 | 36 | 34 | :2 | 12 | 42 | \$ 1 | 14 3 |
|--|--|---|---|--|--|--|--|--|--|--|
| New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central West South Central | 11 2 11 10 4 6 54 5 29 | 5 6 7 9 4 17 20 10 | 0 2 4 7 7 6 34 10 0 | 7 6 6 6 4 2 17 10 10 | 2 2 2 3 5 0 6 11 10 0 | 0 2 2 2 2 0 0 17 10 0 | 0 2 3 3 0 4 0 10 0 | 0 3 31 4 4 6 0 10 | 0 1 20 0 20 20 20 20 0 0 0 | 5 2 73 80 6 6 5 110 |

PNEUMONIA DEATH RATES

| 105 cities | 128 | 104 | 81 | 66 | 3 58 | 3 61 | * 57 | 4 50 | • 62 | 14 56 |
|--|---|--|--|---|--|--|--|--|---|---|
| New England Middle Atlantic East North Central. West North Central. South Atlantic East South Central. Wountain Pacific | 72 168 114 57 146 126 66 95 131 | 117 130 89 59 122 63 87 105 49 | 62 93 81 33 77 103 92 143 65 | 60 75 3 42 50 96 120 76 57 53 | 45 62 3 45 42 75 97 61 67 82 | 45 64 2 59 39 67 91 61 76 74 | 50 63 3 47 55 51 74 76 86 45 | 52 52 3 40 8 40 55 63 66 57 65 | 55 65 52 42 10 63 74 111 76 11 85 | 37 65 7 38 * 53 73 69 71 11 29 78 |

³ Cicero, III., not included. Report not received at time of going to press.
⁴ Cicero, III., and Spokane, Wash., not included.
⁴ Cicero, III., and Fargo, N. Dak., not included.
⁴ Cicero, III., Fargo, N. Dak., Tampa, Fla., and San Francisco, Calif., not included.
⁴ Terre Haute, Ind., Cicero, III., Waterloo, Iowa, Fargo, N. Dak., and Helena, Mont., not included.
⁴ Fargo, N. Dak., not included.
⁴ Fargo, N. Dak., and Waterloo, Iowa, not included.
⁹ Fargo, N. Dak., and Waterloo, Iowa, not included.
¹⁹ Tampa, Fla., not included.
¹³ Spokne, Wash., not included.
¹³ San Francisco, Calif., not included.
¹⁴ Terre Haute, Ind., Cicero, III., Fargo, N. Dak., and Helena, Mont., not included.

| Group of cities | Number of cities reporting cases | Number of citiles reporting deaths | Aggregate population of cities reporting cases | Aggregate population of cities reporting deaths |
|--|--|--|--|--|
| Total | 105 | . 97 | 28, 898, 350 | 28, 140, 934 |
| New England. Middle Atlantic. East North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific. | 12 10 17 14 22 7 8 9 6 | 12 10 17 11 22 7 6 9 3 | 2, 098, 746 10, 304, 114 7, 032, 535 2, 515, 330 2, 566, 901 911, 885 1, 124, 564 549, 445 1, 797, 830 | 2, 098, 746 10, 304, 114 7, 032, 535 2, 381, 454 2, 566, 991 911, 868 1, 023, 013 546, 445 1, 275, 841 |

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

FOREIGN AND INSULAR

THE FAR EAST

Report for the week ended August 1, 1925.—The following report for the week ended August 1, 1925, was transmitted by the Far Eastern Bureau of the health section of the League of Nations, located at Singapore, to the headquarters at Geneva:

| D . 4 | Pla | gue | Cholera | | Smallpox | |
|--|-----------------------|--|-----------------------|---|--|--|
| Port | Cases | Deaths | Cases | Deaths | Cases | Deaths |
| Calcutta | | Deaths 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Cases | Deaths 11 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Cases 5 2 28 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Deaths 5 2 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Suez Port Said Mombasa (Kenya) Massaua (Britrea) Durban (Natal) Cape of Good Hope | 0 0 0 0 0 | 0 0 0 0 0 | 0 0 0 0 0 | 0 0 0 0 0 0 | 0 0 0 0 0 | 0 0 0 0 0 |

¹ No infection found among rats examined.

³ Plague-infected rats taken.

PLAGUE ON VESSEL

Steamship "Efstratios Cavoundis"—At Alexandria, Egypt, via ports in Greece and Syria—July 7-11, 1925.—Four cases of plague with one death were reported on the steamship Efstratios Cavoundis, at Alexandria, Egypt, during the period July 7 to 11, 1925. The finding of dead rats on board in transit was reported. The vessel was stated to have touched at ports in Greece, including the islands of Cyprus and Rhodes, at ports in Syria, and at Port Said.

AUSTRIA

Varicella made notifiable.—Information received under date of May 13, 1925, shows that by ordinance dated April 29, 1925, of the Federal Ministry for Social Welfare in Austria, varicella (chicken pox) was declared notifiable.

CHINA

Plague—North Manchuria—On Chinese Eastern Railway—May 27, 1925.—Information dated July 20, 1925, shows the occurrence on May 27, 1925, of two cases of plague, of which one, with fatal termination, was pneumonic in type, at the village of Hohonteh, on the Eastern Chinese Railway, halfway between Hailar and Manchouli. Both cases were in tarabagan hunters lately returned from a hunting trip.

CUBA

Malaria—Santiago de Cuba—July 19-August 11, 1925.—Malaria has been reported at Santiago de Cuba as follows: July 19 to August 1, 1925—cases, 118; deaths, 3; on August 11, 1925, 510 cases reported present with 57 cases and 4 deaths notified for the week ended August 8, 1925.

ESTHONIA

Communicable diseases—May, 1925.—During the month of May, 1925, communicable diseases were reported in Esthonia as follows: Diphtheria, 40 cases; measles, 30; paratyphoid fever, 3; scarlet fever, 21; tuberculosis, 170; typhoid fever, 50; typhus fever, 2.

Leprosy.—During the same period, three cases of leprosy were reported in Esthonia.

ITALY

Malta fever—Province of Syracuse—July 6-26, 1925.—Two cases of Malta (Mediterranean) fever have been reported in the Province of Syracuse, island of Sicily, Italy, occurring, respectively, during the weeks ended July 12 and 26, 1925.

LATVIA

Communicable diseases—May, 1925.—During the month of May, 1925, communicable diseases were reported in the Republic of Latvia as follows:

| Disease | Cases | Disease | Cases |
|--|----------------------------------|---------------|----------------------------|
| Cerebrospinal meningitis Diphtheria Dysentery Malaria. Measles Mumps ¹ | 12 48 10 1 743 53 | Scarlet fever | 201 3 55 5 137 |

Leprosy.—During the same period a case of leprosy was reported in the Republic of Latvia.

MALTA

Communicable diseases—July 1-15, 1925.—During the period July 1 to 15, 1925, communicable diseases were reported in the island of Malta as follows

| Disease | Cases | Disease | Cases |
|--|--------------------------|--|--------------------|
| Broncho-pneumonia Chicken pox Diphtheria | 2 12 1 48 10 | Scarlet fever Smallpox Tuberculosis Typhoid fever | 1 2 15 11 |

Population (civil) 223,088.

PHILIPPINE ISLANDS

Examination of rats—June, 1925.—During the month of June, 1925, 4,392 rats were taken and examined in the city of Manila, Philippine Islands. No plague-infected rat was found.

SIBERIA

Plague—Transbaikalia—May, 1925.—Information received under date of July 20, 1925, shows the occurrence on May 19, 1925, of a death from bubonic plague at the village of Nadoarovsk, near Sharasun station, on the Chita Railway. The locality was stated to be well within the plague endemic area of Transbaikalia and in vicinity of Manchouli. Later reports indicated the tarabagan as the source of the infection.

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

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

Reports Received During Week Ended August 28, 1925¹

CHOLERA

| Ceylon | |
|---|-------------------|
| India: | ases, 21; deaths, |
| India: Bombay June 28-July 4 2 2 Madras July 12-18 1 1 Siam: Bangkok June 21-27 1 1 | |

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

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

| | PL | IGUE | | |
|--|-----------------------------------|---------|---------|---|
| Place | Date | Cases | Deaths | Remarks |
| British East Africa: | | | | |
| Uganda- | | | | - · · |
| Entebbe Ceylon: | . May 7-June 4 | 78 | 73 | |
| Colombo | June 21-27 July 5-11 | 1 | | - |
| Do China: | July 5-11 | 1 | | - |
| North Manchuria | May 27 | 2 | 1 | |
| Egypt | | | • | July 9-15, 1925: Cases, 7; Tota Jan. 1-July 15, 1925—Cases, 8; corresponding period, 1924- Cases 378 |
| India | | | | Cases, 328. June 21-27, 1925: Cases, 21 |
| Bombay | June 14-20 | 35 | 3 | deaths, 162. |
| Do Madras Presidency | June 28-July 4 June 6-27 | 10 | 8 | |
| Indo-China: Saigon | 1 | | 1 | Including 10 square kilometer |
| Java: | | | | surrounding country. |
| Batavia | June 13-19 May 17-23 | 7 | 6 | |
| Cheribon Pekalongan | May 17-23 | | 12 | Out of date. Do. |
| Nigeria Siam: | March-April | | 14 | |
| Bangkok Siberia: | June 14-20 | 2 | 2 | |
| Transbaikalia Straits Settlements: | May 19 | | 1 | At locality on Chita Railway. |
| Singapore Union of South Africa: | June 28-July 4 | 1 | 1 | |
| Orange Free State Boshof District On vessel: | June 28-July 4 | 1 | 1 | Native. |
| Steamship Efstratios Ca- voundis . | July 7-11 | 4 | 1 | At Alexandria, Egypt. Vess, arrived July 7, 1926. Regula route, ports in Greece, Syria and Port Said. Dead rats re ported found on board. |
| | SMAL | LPOX | | ······································ |
| Brazil: | | | 1 | |
| Pernambuco Rio de Janeiro British East Africa: | June 7–27 June 28–July 18 | 5 18 | 3 10 | |
| Kenya- Mombasa | May 24-June 20 | 6 | 4 | |
| Tanganyika Territory | May 10-23 | 60 | 18 | |
| ritish South Africa: Southern Rhodesia china: | June 25-July 1 | 1 | | |
| Hongkong Manchuria | June 7-13 | 1 | | |
| Dairen | June 8-28 | 8 | 1 | |
| Do Nanking | June 29-July 5 June 28-July 11 | 1 | 1 | Present. |
| Shanghai | July 6–11. July 5–11 | 1 | | |
| Swatow | July 5-11 | | | Stated to be endemic. |
| Seoul | June 1-30 | 1 | | Mars 1 01 1005 Games 10 |
| rance ermany: Baden (State) | July 12-25 | 2 | 1 | May 1-31, 1925: Cases, 18. |
| reat Britain: England and Wales | July 19-Aug. 1 | 110 | | |
| Newcastle-on-Tyne | July 26-Aug. 1 | 1 | | May 1-31 1025 Cases 2. |

13

13

6

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1 16 28

July 5-18.....

 June 14-20.

 Bo.
 Jume 28-July 4.

 June 21-27.
 June 21-27.

 Do.
 June 28-July 4.

 June 28-July 4.
 June 28-July 4.

 June 28-July 4.
 June 28-July 4.

 June 28-July 4.
 June 28-July 4.

Greece

India

Budapest _____

Bombay_____

Karachi.....

Do_____ Madras_____

Hungary:

.....

12 3

1 7 6

Reports Received During Week Ended August 28, 1925-Continued

June 21-27, 1925: Cases, 2,746 deaths, 605.

May 1-31, 1925; Cases, 2,

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

Reports Received During Week Ended August 28, 1925-Continued

SMALLPOX-Continued

| 1 | Cases | Deaths | Remarks |
|-------------------------|---|------------|--|
| . May 3-30 | 20 | 3 | Apr. 19-May 30, 1925; Cases, 28. |
| | | | July 1-10, 1925: Cases, 1. |
| June 14-20 June 6-12 | 12 | | ···· |
| May 28-June 20 | 73 | 17 | |
| February-April | 5 | | May, 1925: Cases, 3. |
| | | | July 1-15, 1925: Cases, 2. |
| March-April | 956 | 112 | Apr. 28-May 9, 1925; Cases, 4. |
| July 19-Ang. 1 | 21 | | Apr. 20-May 9, 1920. Cases, 4. |
| July 19-25 | 4 | | January-February, 1925: Cases, |
| December, 1924 | 1, 000 | | 20. Later than previously published |
| January-February | 1, 444 1, 013 | | reports. Do. |
| June 14-27 | 3 | 2 | |
| July 26-Aug. 1 | | 5 | |
| June 14-20 | 4 | | Mar. 4-Apr. 15, 1925: Cases, 6. |
| July 22-Aug. 4 | 4 | 3 | February-March, 1925: Cases, 4. |
| | June 14-20. June 14-20. June 6-12. May 28-June 20 February-April Aug. 4-10. March-April July 19-Aug. 1 July 19-25. December, 1924 January-February March June 14-27 June 14-20 July 22-Aug. 4 | June 14-20 | June 14-20 |

TYPHUS FEVER

| · · · · · · · · · · · · · · · · · · · | 1 | 1 | 1 | 1 |
|---------------------------------------|----------------|-----|---|--|
| Egypt: | Tulm 0.15 | 1 | | |
| Ålexandria Esthonia | July 9-13 | | | May 1-31, 1925: Cases, 2, |
| Greece | | | | Do. |
| Greece | June 28-July 4 | | 2 | |
| LatviaLithuania | | | | May, 1925: Cases, 5. March-April, 1925: Cases, 118; |
| Inthualia | | | | deaths, 5. |
| Mexico: | | | | - · · · · · · - · |
| Mexico City | July 12-25 | 19 | | Including municipalities in Fed- eral district. |
| Morocco. | January-April | 337 | | Later than previously published |
| | | | | reports. |
| Do Palestine | May 1-31 | 25 | | Terms 14 00 1005: Cases 4 00 |
| Palestine | | | | June 14–29, 1925: Cases, 4. Oc- curring in four localities. |
| Poland | | | | Apr. 26-May 9, 1925: Cases, 297; |
| - . | | | | deaths, 27. |
| Rumania Constantza | June 21-20 | | | January-February, 1925: Cases, 606; deaths, 54. |
| Russia | | | | December, 1924: Cases, 5,062. |
| Do | | | | January-February, 1925; Cases, |
| | | | | 11,086. Later than previously |
| Do | | | | published reports. March, 1925: Cases, 7,250. |
| 20 | | | | |
| Tunis: | | | | |
| Tunis Union of South Africa: | July 22-28 | 2 | 1 | |
| Cape Province | June 21-July 4 | | | Outbreaks. |
| Natal. | do | | | Do. |
| Durban | do | 4 | | De |
| Orange Free State | June 21-27 | | | Do. |
| | | | | |

August 28, 1925

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

Reports Received from June 27 to August 21, 1925 1

CHOLERA

| Ecuador: Guayaquil | Place | Date | Cases | Deaths | Remarks |
|---|------------------------------|------------------|-------|--------|---|
| Coryon Jan. 25-May 2, 1925: Cases, deaths 43, 1925: Cases, deaths 44, 1925: Cases, deaths 44, 1925: Cases, deaths 44, 1925: Cases, 2: deaths po. Bornbay May 10-June 27. 2 1 Bornbay June 1-20. 14 Do. June 6-20. 14 June 6-20. 14 11 Rangoon May 3-June 6. 22 Do. June 14-27. 1 Salina: May 4-June 7. 4 Salina: May 4-June 7. 4 Bulacan June 14-20. 1 Image 8-July 3-0. 1 1 Jame 8-July 3-0. 1 1 Isamita June 23-July 12. 6 1 Jame 3-July 12. 6 1 1 Jame 3-July 12. 6 1 1 Jame 23-July 12. 1 1 1 Jame 12. June 12. 6 1 Jame 12. June 12. 1 1 Jame 12. 1 | Algeria: | May 11-20 | | | |
| Colombo. May 10-16 2 2 deaths, 43. Bornbay. May 10-June 27. 2 1 Calcutta May 10-June 27. 2 1 Madras Presidency. June 14-20. 1 1 Madras Presidency. June 14-20. 1 1 Do. June 14-27. 12 8 Tabaco. June 24-July 4. 1 1 Tabaco. June 6-12. 2 1 1 Lasgonoy June 6-12. 2 1 1 Jasa June 24-July 12. 6 1 1 Statimizer May 16-22. 1 1 1 Jasa Portkey: Constantinople. May 16-22. 1 1 Statish East Africa: May 10-June 30. 10 10 10 Johna: Do. June 24-July 4. 1 | Algiers | Wiay 11-20 | · · | | Ian 25-May 2 1925 Cases 5 |
| Bombay. May 10-June 27 2 1 34,322; deaths, 20,990. Calcutte May 17-22 79 61 June 14-20 1 1 1 Ma Do. Fresidency July 5-11 1 1 Rangoon May 3-June 6 22 15 Feb. 8-14, 1925: Cases, 2: dea Do. June 14-27 1 1 Indo-China: May 4-June 7 4 3 Saigon June 14-27 1 1 Calcutta May 4-June 7 4 3 June 23-July 4 1 1 1 Calcutta May 10-20 1 1 Calcutta Feb. 1-28 2 1 June 15-28 1 1 1 June 29-July 12 6 1 1 June 29-July 4 1 1 1 Jamina May 10-22 1 1 June 17.2 2 1 1 1 Jamina May 10-22 1 1 1 | Colombo | May 10-16 | 2 | 2 | deaths, 43. |
| Calamitá May 3-9 Se 40 Do May 17-22. 79 61 Do June 14-20. 12 11 Madras Presidency. June 6-20. 4 1 Do June 14-20. 12 11 Madras Presidency. June 3-27. 22 15 Peb. 8-14, 1925: Cases, 2: deather of the formation of the formatio of the formation of the formation of the fo | | Moy 10 June 97 | | | Apr. 25-June 20, 1925; Cases |
| Madras Presidency June 4-20 | Colmute | May 2.0 | 58 | | 34,322; deatins, 20,999. |
| Madras Presidency June 4-20 | Do | May 17-23 | 79 | | |
| Madras Presidency June 6-20 4 1 Do | Do | | 12 | | |
| Do. July 5-11. 2 1 Rangcon. June 14-27. 12 8 Do. June 14-27. 12 8 Indo-Othna: May 4-June 7 | Madras Presidency | June 6-20 | 4 | 1 | |
| Do. June 14-27 12 8 2. Received out of date. Indo-China: Saigon May 4-June 7 4 3 Philippine Islands: Albay- 1 1 Received out of date. 1 1 Philippine Islands: June 14-29 1 1 Received out of date. 1 1 1 Camarines Sur July 3-9 2 1 1 Manila June 15-28 2 1 1 Bangkok Apr. 29-June 6 8 3 3 Turkey: May 16-22 1 1 1 Constantinople May 3-June 13 5 4 4 Stitist East Africa: Feb. 1-28 28 28 Colombo June 24-31 4 3 10 China: June 1-15 1 1 May 16-June 30, 1925: Rats Sugada June 17-24 2 2 2 2 City- Albay- June | Do | July 5-11 | 1 | | |
| Inde-China: Salgon June 22-July 4 | Rangoon | May 3-June 6 | 22 | | Feb. 8-14, 1925: Cases, 2: deaths |
| Indo-China: May 4-June 7 4 3 Saigon | D0 | June 14-27 | | | 2. Received out of date. |
| Saigon May 4-June 7 | | j June 20-July 4 | | 1 | |
| Philippine Islands: June 14-29 | | May 4-June 7 | 4 | 3 | |
| Tabaco | Philippine Islands: Albay | | | | |
| Camarines Sur | Tabaco | June 14-29 | | | |
| Camarines Sur | Bulacan | do | 1 | 1 | |
| Manila June 15-28. 3 | Camarines Sur | July 3-9 | | | 1 |
| Do | Lagonoy | June 6-12 | 2 | 1 | |
| Mountain Province June 23-20 1 1 Bangkok Apr. 29-June 6 8 3 Turkey: May 16-22 1 | Manua | June 10-28 | | | Tuno 1-Aug 9 1095, Cores 17 |
| Siam: Bangkok Apr. 29-June 6 8 3 Turkey: Constantinople May 16-22 1 1 PLAGUE Brazil: Bahia May 3-June 13 5 4 British East Africa: Uganda Feb. 1-28 28 28 Colombo May 10-June 30 10 10 Do June 28-July 4 4 3 China: Foochow May 24-31 May 10-June 30, 1925: Rats amined, 30,347; found infect 95 June 1-15 Cuador: Guayaquil June 1-15 1 1 May 10-June 30, 1925: Rats amined, 30,347; found infect 95 Sgypt June 1-15 1 1 June 1-15, 1925; Rats amined, 30,347; found infect 96 3 Sgypt June 17 1 1 June 1-15, 1925; Rats amined, 30,347; found infect 96 3 Suez June 17 2 2 2 2 Province June 17 3 2 2 2 Province June 6 1 1 1 Mania June 6 1 1 1 MarApr. 3 3 3 3 | Mountain Province | June 23-29 | | | June 1-Aug. 8, 1925: Cases, 17. |
| Turkey: Constantinople May 16–22 1 PLAGUE Brazil: Bahia | Siam: | | - | _ | |
| PLAGUE Brazil: Bahia | Turkey: | - | - | | |
| Brazil: Bahia. May 3-June 13 | Constantinopie | Way 10-22 | 1 | | |
| Bahia May 3-June 13 | | PLA | GUE | | |
| Bahia May 3-June 13 | Brazil: · | | 1 | | |
| Uganda | Bahia | May 3-June 13 | 5 | 4 | |
| Colombo | Uganda | Feb. 1-28 | 28 | 28 | |
| Do | Ceylon: | May 10 June 20 | 10 | 10 | |
| Foochow May 24-31 Reported present in epider form. Ecuador: Guayaquil June 1-15 1 1 Sgypt June 1-15 1 1 Sgypt June 17-24 2 2 Port Said June 17-24 2 2 Province June 17-24 2 2 Alexandria June 17-24 2 2 Province June 17-24 2 2 Assiout June 17-3uly 8 6 3 Beni-Souef June 6 1 1 Minia June 6 1 1 June 17 3 2 3 Province June 6 1 1 Assiout June 6 1 1 June 17 3 2 3 Add Coast Mar. Apr 3 3 Iawaii: Honokaa June 6 1 Honokaa May 10-June 7 6 1 Maia May 10-June 6 1 1 Madras May 10-June 30 5 3 | Do | June 28-July 4 | | | |
| Ecuador: Guayaquil | | May 24–31 | ····· | | Reported present in epidemi |
| Guayaquil | Ecuador: | | | | юш. |
| Sgypt | Guayaquil | June 1-15 | 1 | 1 | May 16-June 30, 1925: Rats ex amined, 30,347; found infected 95. July 1-15, 1925: Rat taken 9.926; rats found in |
| City June 17-24 | Perent | | | | fected, 16. |
| Alexandria. June 17-24. 2 2 2 Bubonic. Province June 17-July 8 6 3 3 2 Province June 17-July 8 3 2 Bubonic. Assiout June 16-27 3 2 Bubonic. Minia June 6-8 | | | | | Corresponding period 1924- |
| Port Said June 17-July 8 6 3 Suez June 14-27 3 2 Province June 14-27 3 2 Assiout June 5 1 1 Beni-Souef. June 5 1 1 Beni-Souef. June 6-8 1 1 Minia June 6-7 | City- | Trans 17 04 | | _ | cases, 323. |
| Suez June 14-27 3 2 Province- June 5 1 1 Assiout June 5 1 1 Beni-Souef June 10-16 8 4 Charkieh June 6-8 1 1 June 6 1 1 1 June 6-17 3 2 Honokaa MarApr 3 3 Iawaii: MarApr 3 3 Honokaa MarApr 3 3 Iawaii: MarApr 3 3 Honokaa MarApr 3 3 Iawaii: MarApr 3 3 Honokaa MarApr 3 3 Rangoon Apr. 26-June 27 62 56 Calcutta May 18-June 6 1 1 Karachi May 10-June 30 5 3 Rangoon May 10-June 30 5 3 Rangoon May 10-June 30 5 3 Rangoon May 10-June 27 113 95 | Alexandria | | | | BUDODIC. |
| Province | | June 14-97 | 2 | 3 | |
| Assiout June 5 1 1 Beni-Souef June 10–16 8 4 Charkieh June 10–16 8 4 Ine in 10–16 8 4 June 10–16 8 4 Ine in 10–16 8 4 June 10–16 8 4 June 17 1 1 Minia June 6-8 1 June 17 3 2 Jold Coast June 6-17 3 Honokaa June 7 3 India Apr. 20–June 27 62 Calcutta May 30–June 6 1 Karachi May 18–June 6 4 Madras May 10–June 30 5 Rangoon May 10–June 30 5 Rangoon May 10–June 20 13 Peb. 8–14, 1925: Case, 13: deat 13 | | June 11-2/ | | - | |
| Beni-Souef June 10–16 8 4 Charkieh June 6–8 1 1 Minia June 6–7 1 1 Minia June 6–17 3 2 Jold Coast Mar – Apr 3 3 Iawaii: Mar – Apr 3 3 Honokaa Mar – Apr 3 3 Bombay Apr. 26–June 27 62 56 Calcutta May 30–June 6 1 1 Karachi May 18–June 6 4 3 Madras May 10–June 30 5 3 Rangoon May 10–June 30 5 3 | Assiont | June 5 | 1 | 1 | |
| Charkieh June 6-8 1 1 Kena June 17 1 1 Minia June 6-17 3 2 Jold Coast MarApr 3 3 Iawaii: June 77 62 56 Bombay Apr. 26-June 27 62 56 Calcutta May 10-June 6 1 1 Karachi May 10-June 30 5 3 Rangoon May 10-June 30 5 3 | Beni-Souef | June 10-16 | | | |
| Kena | Charkieh | June 6-8 | | | |
| Minia June 6-17 3 2 Jold Coast MarApr 3 3 Iawaii: MarApr 3 3 Honokaa June 28, 1925: Plage-infect rat trapped at Honokaa Pla tation. ndia Apr. 26-June 27 62 56 Calcutta May 30-June 6 1 1 Karachi May 18-June 6 4 3 Madras May 10-June 30 5 3 Rangoon May 10-June 30 5 3 | Kena | June 17 | 1 | 1 | |
| Iawaii: June 28, 1925: Plage-infect rat trapped at Honokaa Pl tation. India | Minia | June 6-17 | | 2 | |
| Honokaa 1 June 28, 1925: Plage-infect rat trapped at Honokaa Platation. ndia Apr. 26-June 27 62 56 Bombay May 30-June 6 1 1 Karachi May 10-June 30 5 3 Rangoon May 10-June 20 5 5 Feb. 8-14, 1925: Cases, 13: death | | MarApr | 3 | 3 | |
| ndia Apr. 26-June 27 62 56 23,667; deaths, 19,793. Bombay May 30-June 6 1 1 Karachi May 10-June 30 5 3 Madras | | | | 1 | |
| ndia tation. Bombay Apr. 26-June 27 62 56 Calcutta May 30-June 6 1 1 Karachi May 18-June 6 4 3 Madras May 10-June 30 5 3 Rangoon | 110D0K88 | · | ••••• | | June 28, 1925: Plage-infected |
| Apr. 26-June 20, 1925: Case Bombay Apr. 26-June 20, 1925: Case Calcutta May 30-June 1 1 1 Karachi May 10-June 4 3 3 Madras May 10-June 5 3 Feb. 8-14, 1925: Cases, 13: deat | | | | 1 | |
| Bombay Apr. 26-June 27 62 56 23,667; deaths, 19,793. Calcutta May 30-June 6 1 1 Karachi May 18-June 6 4 3 Madras May 10-June 30 5 3 Rangoon May 10-June 7 113 95 Feb. 8-14, 1925; Cases, 13; death | ndia | | | 1 | |
| Karachi | Bombay | Apr. 26-June 27 | 62 | 56 | 23.667: deaths, 19.793. |
| Karachi | Calcutta | May 30-June 6 | | | |
| Madras May 10-June 30 5 3 Rangoon May 3-June 27 113 95 Feb. 8-14, 1925: Cases, 13: death | Karachi | May 18-June 6 | | 3 | |
| Rangoon | Madras | May 10-June 30 | | | |
| Do June 28-July 4 20 18 13. (Received out of date.) | Rangoon | May 3-June 27 | | | Feb. 8-14, 1925: Cases, 13: deaths, |
| | Do | June 28-July 4 | | | |

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

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

Reports Received from June 27 to August 21, 1925-Continued

PLAGUE-Continued

| Place | Date | Cases | Deaths | Remarks |
|---------------------------------|------------------|-------|--------|--|
| Indo-China: Cochin-China- | | | | |
| Saigon | . Apr. 20-May 31 | 2 | 2 | Including 100 square kilometers of surrounding country, |
| Iraq: | 1 | | | of buildening country ?? |
| Bagdad | . May 24-June 6 | 9 | | - |
| Ba;avia | May 6-June 12 | 25 | 25 | |
| Cheribon | | | 56 | |
| Pasoeroean Residency | | | | Epidemic in several localities. |
| Pekalongan | | | 60 | ispidentic in several localities. |
| Do | May 24-30 | | 17 | |
| Soerabaya | | 3 | 3 | |
| Soerakarta Residency | May 28 | | ľ | Epidemic at Kalidgambe. |
| Tegal | | | 36 | aprovince as Manufacting. |
| Do | May 24-30 | | 8 | 1 |
| Madagascar: Province- | | | | |
| Itasy | Apr. 1-15 | 1 | 1 | 1 |
| Tananarive | Apr. 1-June 15 | | | |
| Town- | Apr. 1-5 une 15 | 210 | 100 | |
| Tamatave (port) | Apr. 1-15 | 2 | 1 | |
| Tananarive Town | Apr. 16-May 31 | | 5 | 1 |
| Mauritius | Apr. 10-May 31 | 0 | 0 | April, 1925: One case. |
| Nigeria | December 1024 | 17 | 13 | April, 1925. One case. |
| Do | January, 1925 | 10 | 6 | |
| Russia: | January, 1920 | 10 | 0 | |
| Kalmyk District | May 19-31 | 10 | 8 | |
| North Caucasus | June 6-7 | 2 | 2 | |
| Urts | | | | In laboratory worker and con- |
| | May 27 Julie 3 | | 4 | tact. Locality, Province of Bukeevsk. |
| Siam: | | | | |
| Bangkok Straits Settlements: | Apr. 26–June 13 | 11 | 9 | |
| Singapore | May 3–30 | 9 | 9 | |
| Turkey: Constantinople | 36 | | | |
| Union of South Africa: | May 25–31 | 1 | | |
| Kimberley | June 14-20 | 1 | 1 | In a Malay camp. |

SMALLPOX

| | 1 | 1 | 1 | |
|-----------------------|------------------|-----|----|----------------------------------|
| Algeria: | f | 1 | | |
| Algiers | May 1-June 30 | 43 | 2 | |
| Brazil: | may 1-sulle so | 10 | - | |
| Bahia | June 28-July 4 | 2 | | |
| Pernambuco | | 40 | | |
| | Apr. 26-May 30 | 40 | 21 | |
| Porto Alegre | June 14-20 | | 1 | |
| Rio de Janeiro | May 9-June 27 | 5 | 1 | |
| British East Africa: | | | | |
| Kenya— | | | | |
| Mombasa | Apr. 19-May 23 | 21 | 9 | |
| Nairobi | May 3-9 | 3 | 2 | |
| Tanganyika Territory | Apr. 5-May 9 | 22 | 6 | |
| Uganda | Feb. 1-28 | 2 | - | |
| British South Africa: | | - | | |
| Northern Rhodesia | Apr. 28-May 4 | 3 | | |
| Southern Rhodesia | June 11-17 | ĩ | | European |
| Canada: | • une 11-11-1 | - | | Istropean |
| British Columbia- | | | | |
| | Terms 1 00 | - | | |
| Vancouver | June 1-28 | 7 | | |
| Do | July 6-Aug. 1 | 8 | | |
| New Brunswick- | | | | |
| Restigouche County | June 1-30 | 1 | | |
| Ontario | | | | May 31-July 25, 1925: Cases, 20; |
| Galt | June 14-20 | 2 | | deaths, 1. Corresponding pe- |
| Kingston. | do | 1 | | riod, 1924; Cases, 24. |
| Quebec- | | - | | |
| Quebec | July 26-Aug. 1 | 2 | 2 | |
| Saskatchewan- | | - 1 | - | |
| Regina | May 24-30 | 3 | 1 | |
| ****D | may at oursessed | 91 | ! | |

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

Reports Received from June 27 to August 21, 1925-Continued

SMALLPOX-Continued

| Place | Date | Cases | Deaths | Remarks |
|---|---|----------|--------|--|
| China: | | | | |
| Amoy | May 17-June 30 | | . 7 | |
| Antung | May 11-July 5 May 10-June 13 | 8 | | |
| Canton | May 10-June 13 | | | Present. |
| Chungking | May 3-30 | | | Widespread. |
| Foochow | May 9-June 20 | | | Present. |
| Hongkong | Apr. 19-June 6 | 14 | 12 | |
| Manchuria— | A | 1.07 | 1 | |
| Dairen | Apr. 13-June 7 May 13-June 2 | 107 | | |
| Harbin | May 9-June 27 | | | Do. |
| Nanking Shanghai | May 3-June 6 | 5 | 2 | D0. |
| Swatow | May 17-July 4 | | | Stated to be endemic. |
| Tientsin | May 9-June 6. | 3 | | Stated to be endemic. |
| Chosen: | hildy o build office | | | |
| Seoul | May 1-31 | 1 | | |
| Egypt: | | - | | |
| Alexandria | May 21-27 | 1 | 1 1 | |
| Cairo | Mar. 19-May 13 | ŝ | - | |
| France | | , v | | February-April, 1925: Cases, 59 |
| Paris | May 21-31 | 1 | | |
| Jermany: | | - | | |
| Stuttgart | July 5-11 | 3 | 1 | |
| fold Coast | | | | January-April, 1925: Cases, 367, |
| | | | | deaths, 29. |
| Freat Britain: | | | | |
| England and Wales | | | | May 24-June 27, 1925: Cases, 441. |
| Birmingham | June 7-13 | 1 | | June 28-July 4, 1925: Cases, 243, |
| Cardiff | June 14–20 | 1 | | |
| Newcastle-on-Tyne | May 31-June 27 | 4 | | |
| Do | June 28–July 18 | 7 | | |
| lreece | | | | January-April, 1925: Cases, 44; |
| Athens | May 1-31 June 24-30 | | 2 | deaths, 8. |
| Do | | 27 | 3 | A |
| ndia | | | | Apr. 26-June 20, 1925: Cases, 33,911; deaths, 8,482. |
| Bombay | Apr. 26-June 27 | 143 | 103 | 33,911, ueatus, 8,402. |
| Calcutta | May 3-9 | 143 | 100 | |
| Do | May 17-93 | 75 | 61 | |
| Do | May 17-23 May 31-June 20 May 18-June 13 May 18-June 27 | 88 | 81 | |
| Karachi | May 18-June 13 | 5 | l ĩ | |
| Madras | May 18-June 27 | 152 | 66 | |
| Do | July 5-10 | 24 | 12 | |
| Rangoon | May 3-June 27 | 207 | 99 | |
| Do | June 28-July 4 | 2 | 1 | |
| ndo-China: | | | | |
| Cochin-China- | | | | |
| Saigon | Apr. 20-May 21 | 13 | . 9 | Including 100 square kilometers |
| 5 | - | | | of surrounding country. |
| ak | | | | Jan. 11-May 2, 1925: Cases, 116; |
| Bagdad | Apr. 26-May 2 | 3 | | deaths, 43. |
| aly | Dec. 28-Apr. 18 | 44 | | |
| amaica | | | | Apr. 26-June 27, 1925: Cases, 110 |
| | 1 | | | (reported as alastrim). |
| Kingston | Apr. 26–June 27 | 19 | | Reported as alastrim. |
| apan: | | | | |
| Kobe | May 24–June 27 | 2 | | |
| Nagasaki | May 15-21 | 2 | | |
| Do | July 6-12 | 1 | | |
| Yokohama | May 25-31 | 1 | | |
| 1 | | 2 | | |
| IVa: | | 2 | | |
| Batavia | May 2-June 26 | * 1 | | |
| Batavia Brebes | A pr. 22-28 | 1 | | |
| Batavia Brebes Cheribon | Apr. 22-28 Apr. 16-22 | | 1 | |
| Batavia Brebes Cheribon Pekalongan | A pr. 22-28 Apr. 16-22 Apr. 2-8 | 1 1 | 1 | Enidemia at Kawadanan |
| Batavia Brebes Cheribon Pekalongan Rembang Residency | A pr. 22–28 A pr. 16–22 A pr. 2–8 A pr. 23 | ī | | Epidemic at Kawedanan. |
| Batavia Brebes Cheribon Pekalongan Rembang Residency Soerabaya | Apr. 22-28 Apr. 16-22 Apr. 2-8 Apr. 2-8 Apr. 23 Apr. 16-May 27 | 1 201 | 1 | Epidemic at Kawedanan. |
| Batavia Brebes Cheribon Pekalongan Rembang Residency Soerabaya South Bantam | Apr. 22-28 Apr. 16-22 Apr. 2-8 Apr. 2-8 Apr. 23 Apr. 16-May 27 | ī | | Epidemic at Kawedanan. |

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

Reports Received from June 27 to August 21, 1925---Continued

SMALLPOX-Continued

| Place | Date | Cases | Deaths | Remarks |
|---------------------|----------------------------|-------|--------|----------------------------------|
| Mexico: | | | | |
| Durango | do | | . 11 | |
| Do | July 1-31 | | 13 | |
| Guadalajara | | | 10 | |
| Do. | | | 11 | |
| Mexico City | May 24-June 27 | 12 | 1 | Including municipalities in Fe |
| Do | July 5-11 | 3 | | eral district. |
| Tampico. | June 1-10 | | 1 | |
| Do | | 4 | | |
| Morocco: | July 1-01 | 1 1 | - | |
| Tangier | May 17-June 5 | ł. | | Present among natives. |
| Nigeria | Diay 17-Julie J | | | December, 1924; Cases, |
| Nigeria | | | | deaths, 16. |
| Do | | 1 | f | January-February, 1925: Cas |
| D0 | | | | All deaths 11 |
| D | | | | 421; deaths, 11. |
| Persia: | | | 1 | |
| Teheran | Mar. 21-Apr. 21 | | 11 | 35 |
| Poland | | | | Mar. 1-Apr. 4, 1925: Cases, 19. |
| Portugal: | | | | |
| Lisbon | Apr. 26-June 27 | 36 | 6 | |
| Do Oporto | June 28–July 18 | 13 | 7 | |
| Oporto | June 14-20 | 1 | | |
| Russia | | | | December, 1924: Cases, 880. Ja |
| | | | | uary-February, 1925: Case |
| | | | | 1, 355. |
| liam: | - | | | |
| Bangkok | Apr. 26-June 13 | 24 | 17 | |
| pain: | | | | |
| Malaga | May 24–June 20 | | 15 | |
| Do | July 5-25 | | 8 | |
| Valencia | May 31-June 27 | 3 | 1 | |
| traits Settlements: | | | | |
| Singapore | May 17-23 | 1 | | |
| witzerland: | | - | | |
| Berne | June 7-13 | 1 | | |
| yria: | | - | | |
| Beirut | Apr. 21-30 | 1 | | |
| ripoli | | - | | Jan. 3-Mar. 4, 1925: Cases, 8, |
| unis: | | | | |
| Tunis | May 6-June 30 | 1 | 46 | |
| Do | July 1-21 | | 17 | |
| urkey: | July 1-21 | | | |
| Constantinople | May 16-22 | 2 | | |
| nion South Africa: | 174 Gy 10-44 | - | | |
| Cape Province | May 24-30 | 1 | | Outbreaks. |
| | | 8 | 1 | outoreaks. |
| Dort Flizobeth | | | | |
| Port Elizabeth | Apr. 18-25 | | | De |
| Port Elizabeth | Apr. 18-25 May 3-June 6 | | | Do. December, 1924: Cases, 8. |

TYPHUS FEVER

| Algeria: Algiers Bulgaria | May 11-20 | 6 | 2 | In vicinity, 12 cases. Isolated. November-December, 1924: 1 |
|---------------------------------|-----------------------------|--------|--------|--|
| Šofia | May 28-June 3 | 2 | | case. January-March, 1925: Cascs, 36; deaths, 2. |
| Chile: Valparaiso | May 10-July 18 | | 9 | |
| China: Manchuria— | | | | |
| Harbin Czechoslovakia | May 19-June 2 | 2 | | April, 1925; 1 case. |
| Egypt: Alexandria | May 7-June 3 | 3 | 1 | |
| Cairo Port Said | Mar. 26-May 13 May 14-20 | 6 1 | 4 | |
| Esthonia Greece | | | | Apr. 1-30, 1925: Cases, 4. January-April, 1925: Cases, 52; |
| A thens Kalamata | May 1-31 Apr. 1-30 | | 2 2 | deaths, 6. |
| Latvia Libau | July 14-20 | 1 | | April, 1925: Cases, 12. |

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

Reports Received from June 27 to August 21, 1925-Continued

TYPHUS FEVER—Continued

| Place | Date | Cases | Deaths | Remarks |
|---------------------------|-----------------|----------|--------|--|
| Mexico: | | | | |
| Mexico City | May 24–June 6 | 24 | | Including municipalities in Fed- eral district. |
| Do | June 28-July 11 | | | Do. |
| San Luis Potosi | June 26-July 4 | | 1 | Towns to it toot of |
| Morocco | | | | January-April, 1925: Cases, 290. |
| Jaffa District | | | | |
| Maijdal | | | | |
| Ramleh Safad | May 19–25 | 1 | | |
| Peru: | June 9-13 | - | | |
| Arequipa | Apr. 1-30 | | 2 | |
| Poland | | | | Mar. 1-Apr. 11, 1925: Cases, |
| Portugal: | | | | 1,195; deaths, 74. |
| Oporto | May 31-June 6 | 1 | | |
| Do | July 5-11 | 1 | | |
| Rumania: Constanta | Mar. 1 21 | 1 | | |
| Russia | May 1-31 | 1 | | December, 1924: Cases, 4,227; |
| · | | | | January-February, 1925: Cases, 9,721. |
| Spain: | T | | | |
| Valencia Tunis: | June 7–13 | | 1 | |
| Tunis. | May 21-June 17 | 16 | 8 | |
| Do | July 8-21 | 7 | 3 | |
| Turkey: Constantinople | May 11-31 | 7 | 2 | |
| Union of South Africa: | May 11-31 | ' | - | |
| Cape Province | Apr. 19-June 13 | 39 | 5 | |
| Natal | May 3-31 | 14 | | |
| · Durban | | 14 26 | | |
| Orange Free Stat. | Feb. 1-June 13 | 20 11 | 42 | |
| Yugoslavia: | | | ~ | |
| Zagreb | May 8-21 | 7 | 1 | |

YELLOW FEVER

| | Apr. 1–30 | 1 | | |
|-----------------------------------|-----------------------------|---|---|--|
| Ivory Coast: Lahou Nigeria: | June 1-10 | 1 | 1 | |
| Ibadan Lagos | Apr. 24–30 Apr. 29–May 5 | 1 | 1 | |
| | | | | |

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