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TWO CASES OF RAT-BITE FEVER

By Anthony P. Rubino, Assistant Surgeon, United States Public Health Service, U. S. Marine Hospital, No. 14, New Orleans, La.

Rat-bite fever is prevalent in many parts of the world, especially in the Orient, and the number of cases reported in this country is increasing. The following two cases are of particular interest in that both patients were infected while catching rats for experimental purposes.

CASE NO. 1

On April 12, 1927, at the New Orleans agriculture dump, E. J. W., 42 years of age, engaged by the United States Public Health Service in the capture of live rats for certain investigative purposes, was bitten by one of the rats on the back of his right hand. Two days later his right index finger was also bitten. He applied iodine solution to the wounds and paid no further attention to them, as rat-catchers are frequently bitten without serious consequences.

On April 19, 1927, he had a chill, became feverish, perspired freely, and had generalized aching. After being confined to bed for about a week, he became ambulant and thought his general condition good until May 16, when his wound, which had healed, again became painful; he felt feverish and his ankles became swollen. On May 19 he first noticed marked glandular enlargement in the right epitrochlear and right axillary regions. These were very tender but did not break down. He also noticed for the first time an elevated, discrete, irregular, generalized, purplish rash of varying size, which was most distinct over the right arm and painful to touch. On May 20, he was admitted to the Marine Hospital, New Orleans, La., with the diagnosis of contusion, dorsal surface of right hand.

On May 23, the dorsum of the right hand was found to be reddened, swollen, and indurated at site of bite, without any evidence of suppuration. On the right forearm there were a few discrete, irregular, purplish papules of varying size. There was also a large right epitrochlear node and a large right axillary node. Both were painful to touch but did not suggest suppuration. Manipulation of the arm muscles was painful. Patient's temperature was normal and his general condition was very good. By May 28 the regional lymphadenitis and rash had entirely disappeared.

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On May 29, the patient had a relapse, his temperature rising to 38.4° C., and the anterior cervical chain of lymph nodes and the right submaxillary gland became enlarged and painful. He complained of generalized pain and the characteristic rash reappeared on the right arm, chest, and abdomen. His temperature became intermittent, the patient at times being critically ill. On May 30, dark-field examination of blood was negative, blood serum did not agglutinate B. tularense, Wassermann serum reaction was negative, total white cell blood count was 10,200, and blood cultures on ordinary laboratory media and on bile media were negative.

On June 4, while afebrile, neosalvarsan was administered and full doses were repeated three times at weekly intervals. There has been no recurrence of the condition.

CASE NO. 2

On April 16, 1927, E. J. W., jr., 17 years of age, son of patient in Case No. 1, was also severely bitten by a rat on the left index finger while helping his father capture live rats. Iodine solution was applied. Six days later he had a chill and fever, painful left epitrochlear, left axillary, and left cervical regions, lymphadenitis; and patient also noticed a reddish, hivelike rash on arms, chest, and abdomen. After a week's illness in bed, he was able to go to a local dispensary to have his finger dressed. A period of 10 days apyrexia was followed by a relapse with repetition of symptoms. He recovered, and on May 18 his physician sent him to a local hospital for curettement of the wound. The patient states that on admission to that institution his ankles were swollen. A urinalysis on May 19 showed a trace of albumin, hyaline, fine and coarse granular casts, a few pus cells, a few red blood cells, mucus, and urates. On admission, he was given staphylococcus-streptococcus serobacterin and the wound was curetted and packed with iodoform gauze. On May 22 his temperature rose to 38.9° C. and was intermittent for a few days. This is considered to have been a second relapse. He was discharged from hospital on May 29, feeling well and with all findings negative.

Shortly after his arrival at home he again became ill, his ankles becoming swollen. He was seen at his home on June 11. At that time his temperature was 38.4° C., the rash was faint but definite, and the examination otherwise negative. This apparently was stage of defervescence of the relapse from the fourth paroxysm.

He entered hospital on June 21, 1927, during a period of apyrexia. Physical examination was negative, except that apparently the patient had recently lost considerable weight.

The fifth paroxysm began on June 23, 1927, when the patient's temperature rose to 38.6° C. At about noon he had a violent chill and at 8 p. m. the following day his temperature rose to 39.9° C.

His breath was exceedingly foul, the left arm and left cervical regions were painful, tender, slightly reddened, and distinctly hotter than the right. On the face, dorsal surface of both arms, and more clearly on the chest and abdomen, there appeared a discrete, irregular, papular, dark-red exanthem of varying size. There was marked prostration; both knees were exceedingly painful and involuntary fibrillary twitchings of the trunk muscles annoyed him. At this time a dark-field examination of the blood and blood cultures on dextrose broth and bile media were negative. Total white cell blood count was 24,600, with 90 per cent neutrophiles, a much higher count than usually noted in this disease. The following morning the temperature dropped to 36.1° C., and all symptoms subsided. Advantage was taken of the quiescent stage to administer neosalvarsan. This was repeated twice subsequently, the patient leaving the hospital on July 7, 1927, entirely recovered.

While there was no animal inoculation of blood from these patients, diagnoses of rat-bite fever were made because of the intermittent relapsing fever following a rat bite, the regional lymphadenitis without suppuration, a characteristic exanthem, and response to neosalvarsan treatment.

DIETETICS IN INSTITUTIONS AND IN THE FIELD 1

By Lucy Minnigerode, Superintendent of Nurses, United States Public Health Service

Food, its quality, quantity, and preparation, has been a vital question in all ages and for all people.

Since the days when, according to legend and story, primitive man, handling a piece of meat which had been inadvertently cooked, licked his finger and found it good, methods of cooking have been improved and extended until to-day cooking and the preparation of food have become not only an art but a recognized science.

The nutrition worker and dietitian have come to stay, and their field of operations extends as their usefulness in various fields of endeavor is tested.

It is a backward institution to-day in the United States which does not employ a dietitian for supervision of its food department.

Universities are developing courses of instruction in home economics and dietetics leading to a degree of bachelor of science, such courses being outlined and approved by national organizations of workers.

The food provided for the soldiers and sailors may make or break a nation. This is a broad statement; but apart from the necessity for nutritious and sustaining food for soldiers and sailors, there is the

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necessity for providing for these men food which is also palatable and of the kind to which they are accustomed and which they like.

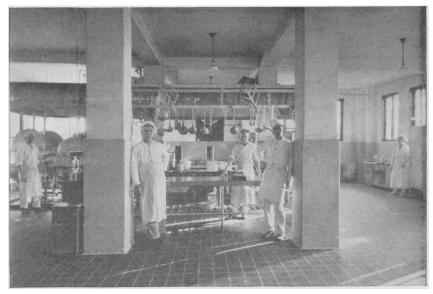
In this country for the Army mess there is a per capita allowance of 50 cents a day. This is also the allowance for the Philippine Scouts. The Navy allows 55 cents a day. Such an allowance for a ration prepared in large quantities in barracks or on ships should provide an excellent, well-balanced menu.

The allowance for Government hospitals is in excess of these rates, and usually runs from 60 cents to \$1.20 a day. The allowance for hospitals is greater than a general ration allowance, because of the special diets and because sick people need a higher quality of food, probably, than people who are up and about; particularly for the tuberculosis hospitals quantities of especially nourishing food are needed.

Since interest in scientific preparation of food has become an accepted fact, we hear much of a balanced ration, calories, vitamins, etc.; and so much has been said and written of certain fundamental principles as applied to the nutriment of families that a balanced ration (a proper proportion of proteins, carbohydrates, fats, etc.) is generally found on the tables of those people who can afford to consider such a question. Among the poorer classes this balanced ration is not found, and as a result there develops among the poor, to a far greater extent than among the "well to do," all sorts of diseases of a dietary nature. Malnutrition in infancy leads to further handicaps in later life. Of course, if persons in poor economic circumstances were better informed as to food values they could secure a much better balanced ration with the money which they have to spend for food. The value of their ration is also dependent somewhat upon methods of cooking. Therefore, if poor people bought wisely and prepared their food well they would be much better nourished than if such were not the case, even though there is a limited amount of money to be expended for food.

The proper number of calories must be maintained, and the vitamins, with their life-giving properties, must be present in sufficient amount if the general health is to be built up and maintained.

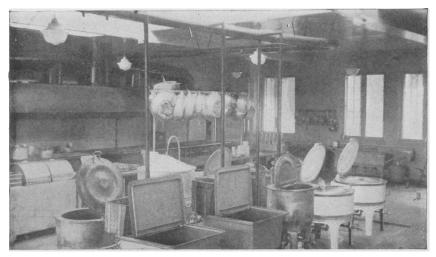
Therefore, for a proper ration in the home a certain amount of knowledge of food values, of how to buy and how to prepare the family ration, is essential. For institutions, dietitians, graduates of recognized schools and colleges, have become a necessary part of the personnel. The dietitian takes charge of a dietary department. The nutritional worker is to the dietitian what the public health nurse is to the general nurse. She is a teacher in the field. Her efforts are directed toward bringing to housewives a knowledge of how better to prepare such food as they have, how to estimate a balanced ration, how to conserve surplus foods by the most approved methods of



Main kitchen, United States Marine Hospital, Stapleton, N. Y.



Subsistence storeroom, United States Marine Hospital, Chicago, III.



Main kitchen, United States Marine Hosoital (National Leprosarium), Carville, La. The steam equipment—roasters, steamers, cereal cookers, etc.—is set in a depression in the floor, having a gradual slope toward the center, where there is a separate drain. A live steam pipe is provided, by means of which the entire kitchen and all equipment are sterilized routinely once a week. Particular attention is given to corners, crevices, and the under sides of tables, and the kitchen is thus kept entirely free from roaches, ants, and similar pests



One of the dining-room compartments, United States Marine Hospital (National Leprosarium), Carville, La. Two double windows, a lighting fixture, and an electric fan provide an ample amount of light, air, and ventilation. These dining compartments accommodate 24 patients

canning and preserving, and what is meant by hygiene in relation to food. It is for this reason that field work and instruction by nutritional workers among people of more moderate means has proved of immense value through teaching not only a better selection in foods but a better method of preparation, so that the nutritional qualities are safeguarded to the greatest extent. These activities are, and must be, coordinated with those of other health workers, chiefly the public health nurse, whose instruction would take in the general hygiene of the home, including, naturally, the cleanliness of kitchens, the proper disposal of garbage, and the protection of water supplies from surface or other contamination. Close cooperation between all health workers is necessary, therefore, if the best results are to be obtained.

Now comes the question of how the student can be best prepared to meet the great demands which will be made upon her and which she will be expected to meet.

- 1. Dietetic organizations have outlined courses for the training of dietitians, which must be accepted by and established in universities and colleges desiring to give such training.
- 2. Institutions and organizations employing these workers demand and need a certain type of knowledge to obtain the desired results.
- 3. The courses of instruction and the needs of the institution should be correlated to meet both needs.
- (A) Course of instruction.—The course of instruction as outlined by the dietetic organizations includes, in addition to English, one language, the principals and methods of teaching, and many of the sciences, chemistry, zoology, psychology, sociology, physiology, bacteriology, physics, etc. The practical courses include cooking, food preparation, experimental cookery and meal service, marketing, teaching, problems of nutrition, etc. The theoretical course, four years, is followed by a practical course, under supervision, in a hospital dietetic department, of four to six months. The course entitles the graduate to a degree of bachelor of science. Those students desiring to do field work—that is, teaching of nutrition in public schools or other fields—are not required to take the six months' hospital apprenticeship.
- (B) Practical work in institutions and other organizations.—Institutions and other organizations employing dietitians are more concerned with the development of the practical aspect of this profession. In hospitals, dietitians in varying grades are assigned to the department.

In their duties are included the purchase of food supplies, the employment of kitchen help, waitresses, and maids for diet kitchens, the proper preparation of food, the outlining of menus for all personnel, the preparation and serving of special diets, the maintenance of discipline in mess halls and among employees of the department, respon-

sibility for cleanliness and general hygiene of kitchens, storerooms, mess halls, and equipment, and many other incidental duties and tasks.

It is seen, therefore, that in this profession there are combined both practical and scientific functions. The dietitian's work is at once one of the most important and one of the most difficult activities of any hospital organization. Hours are long, since all meals for all types of personnel must be covered, and the apportionment must be checked up and carefully supervised. An accurate account of waste must be kept. The allowance of one-third pound per day per ration is considered the minimum of necessary waste and includes both the edible and inedible residue:

Since it is in this department that the greatest expenditure is made, so it is also here that the most effective economies may be practiced, not through the purchase of lower grade, cheaper foods, but through the elimination of unnecessary waste. In order to obtain desired results, therefore, the dietitian should frequently inspect the tray service and visit the patients in the wards so as to ascertain, first, whether the patients are receiving sufficient food and, second, whether this food is of a kind and quality acceptable and palatable. An unusual amount of edible refuse on served trays indicates inevitably one of two things: Either the portions served are too large or the food is not of the kind or quality which the patients desire.

The practical apprenticeship in institutions following the college course is given so that the student becomes thoroughly conversant with all these elements before she attempts to conduct the dietetic department of any institution. The chief dietitian in civilian hospitals is also expected to act as instructor in dietetics, both theoretical and practical, for student nurses.

(C) The question naturally arises, therefore, in view of the manifold duties which the dietitian must perform and the variety of types of personnel which must be fed and satisfied, whether the training is adequate to the needs. Combining, as it does, a practical with a scientific job, the balance between the two functions is a matter for very delicate adjustment.

It is a question in the minds of many institutional administrators whether the practical aspects of the work are not sacrificed to the theoretical and scientific sides of it.

It would seem, in view of the important practical character of this work, that more apprenticeship would be desirable. The sick person, below par in mind as well as body, with few interests beyond the daily hospital procedure and possibly with idiosyncrasies and fancies regarding food, must be understood, studied, and deferred to.

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Only a close contact with patients over a prolonged period of time can give this understanding point of view.

In the Government hospitals the most acceptable dietitians are recruited from those schools, of which there are a few, which give practical experience along with their theoretical training.

It is a self-evident fact that in a comparatively new profession the evidence of ability to do the practical job will soon bring recognition of the scientific angles of the dietitians' duties.

To-day many medical cases are treated largely by diet. Accuracy in the preparation of special therapeutic diets, therefore, becomes a necessity, and too great care can not be expended toward making these diets as accurate as a medical prescription.

The position of dietitian in all institutions is analogous to that of the chief nurse in Government institutions or the superintendent of nurses in civilian hospitals. Both departments, nursing and dietetic, are so vitally necessary to the comfort and welfare of the patients that the closest cooperation between the department heads is essential if the best interests of the patients are to be served. Friction inside an institution always results disadvantageously to those for whom the institution is established.

The pay in Government hospitals ranges from \$1,800 to \$2,500 a year, with from \$600 to \$780 deducted for quarters, subsistence, and laundry. In civilian hospitals the pay range is approximately the same. For public health work or field work it may be higher, and in the fields outside the health activities it is still greater.

This profession is still young. It has made great strides in this country since the war, and each day sees new developments and opportunities opening up. The field is almost limitless for the right woman, given the right educational training, both practical and theoretical.

CARBON MONOXIDE POISONING ON A SHIP AT SEA

The following account of what is reported to be three cases of carbon monoxide poisoning, with one death, on board a tanker, is quoted from the British Medical Journal for January 8, 1927 (p. 86). It should serve as a warning to persons whose duties require them to enter large tanks used for storage or the holds of vessels used for the transportation of petroleum or its distillates.

A correspondent sends an account of an oil tanker in ballast which arrived at a foreign port with the captain dead and the first and second engineers ill from carbon monoxide poisoning. He states that in cleaning out the holds in readiness to take a cargo of gasoline the pump had to be taken apart. The second engineer descended to the hold and fell on his back, face upward. The first engineer heard of the accident, went down, and, as he set foot in the hold, fell similarly, face upward. The captain, learning of the double casualty, without waiting to put on a gas mask, and being a powerful

man, went down at once, but, before reaching the bottom of the ladder, fell under the pump, face downward. The three men were brought up to the deck in less than 10 minutes; the two engineers were bleeding from the nose and mouth. Artificial respiration restored the engineers after one and a half hours, but the captain appeared to have died instantaneously. The ship had previously carried a cargo of benzene, and our correspondent emphasizes the necessity of the board of trade insisting that anybody who enters a tanker's hold should be obliged to wear a gas mask. In this particular instance gas masks were available on the deck, though they were not used. He adds that this occurrence should also serve as a warning that care must be taken when "breaking the pump," which in this case was evidently a death trap.

THE NOTIFIABLE DISEASES

PREVALENCE DURING 1926 IN CITIES OF 10,000 TO 100.000 POPULATION

The annual summary of reports of notifiable diseases in small cities of the United States (population 10,000 to 100,000) for the year 1926, compiled by the Public Health Service from data furnished by the health officers of the cities, will soon be issued as Supplement No. 64 to Public Health Reports. It is printed in the same form as the summary for the year 1925, which was published in Public Health Reports, Vol. 41, No. 42, October 15, 1926, and issued separately as Reprint No. 1117. For reasons of economy the summaries of notifiable diseases in large cities (Supplement No. 63), small cities, and States (not yet compiled) are now being issued as supplements to Public Health Reports. As long as the supply lasts these supplements are available, free on request, to subscribers of Public Health Reports and others desiring them.

Current authoritative estimates of population are not available for some of the cities included in the compilation, but the numbers of cases and deaths are shown, and for many of the cities the case and death rates are computed and the average number of cases or the estimated expectancy based on the experience of several preceding years is given for some of the most important diseases.

The following is a list of diseases included in the summary:

Anthrax.

Chicken pox.

Dengue.

Diphtheria.

Influenza.

Lethargic encephalitis.

Malaria.

Measles.

Meningococcus meningitis.

Mumps.

Pellagra.

Pneumonia (all forms).

Poliomvelitis (infantile paralysis).

Rabies in animals.

Rabies in man.

Rocky Mountain spotted fever.

Scarlet fever.

Septic sore throat.

Smallpox.

Tuberculosis (all forms and respira-

tory system).

Typhoid fever.
Typhus fever.

Whooping cough.

COURT DECISION RELATING TO PUBLIC HEALTH

Referendum not allowable in case of an ordinance declared to be an emergency measure and in the interest of public health.—(Ohio Supreme Court; State ex rel. Smith v. City of Fremont, 157 N. E. 318; decided May 11, 1927.) On June 12, 1926, the State department of health, finding that the public water supply of the city of Fremont was impure and dangerous to health, ordered the city to change the source of its water supply or to install satisfactory purification works. The city was given a year in which to comply with the order.

On June 15 an ordinance, providing for the issuance of bonds to pay for the installation of a filtration plant, was introduced in the city council, and on June 29 the said ordinance was adopted.

On June 28 more than 10 per cent of the duly qualified electors of the city filled an initiative petition, providing for the drilling of additional deep wells and for a change of the source of the city's water supply from the Sandusky River to certain deep wells then owned by the city and to such other wells as might be necessary. This initiated ordinance was approved by the required vote at a general election held on November 2.

On August 3 the city council passed another ordinance authorizing the director of public service to advertise for bids and to contract for the construction of the filtration plant, and on September 8 a contract was awarded in accordance with plans and specifications approved by the State department of health.

In a mandamus proceeding against the city, the supreme court was asked for an order directing the defendant to employ an experienced deep-well driller and contractor for the purpose of drilling wells and constructing an emergency reservoir and equipment, as provided in the initiated ordinance adopted on November 2.

The court, with two justices dissenting, held that, since the city council had declared the ordinance adopted on June 29 to be an emergency measure and in the interest of public health and safety, there could be no referendum under the State constitution. The court stated:

The effect of the initiative petition and its subsequent adoption by the people would be nothing less than a referendum upon the measure adopted by the city council. It is the invoking of initiative legislation as a substitute for and in lieu of a referendum; it is an attempt to repeal legislative action by invoking initiative action.

CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH

Governor Young, of California, has appointed Dr. Walter M. Dickie director of the new State department of public health which began functioning July 29, 1927, the old California State

Board of Health passing out of existence July 28, 1927, after having been in operation continuously since April 1, 1870—more than 57 years.

Doctor Dickie has been secretary and executive officer of the California State Board of Health since August, 1920. Under the new law he will be a member of the Governor's Cabinet as director of the State department of public health.

PUBLIC HEALTH ENGINEERING ABSTRACTS

Screening Sewage to Protect Bathing Beaches. Edmund B. Besselievre. *The American City*, vol. 36, No. 6, July, 1927, pp. 774-775. (Abstract by W. L. Havens.)

The danger of beach pollution is threatening practically all of our coastal citics and is causing more and more attention to be given the subject of sewage treatment, not only to escape the menace to health, but also to avoid the visual evidence of sewage pollution. Mechanical fine screening offers one method of treatment in which the cost of installation is surprisingly moderate and the upkeep and running charges are remarkably low. In cities where an incinerator for the garbage is available, the problem of screenings disposal is a minor one. In places where an incinerator is lacking, the screenings may be buried in adjacent fields or farms.

The Main Drainage System of Liverpool. H. C. Williams, Assistant City Engineer, Liverpool, England. *Journal Royal Sanitary Institute*, vol. 47, No. 12, June, 1927, pp. 677-685. (Abstract by G. H. Hazlehurst.)

This article is a description of the disposal system, its layout and construction, at the city of Liverpool.

Disposal of the greater part of the sewage is by dilution with sea water, where many thousands of volumes are available. A small percentage of the total population has made it necessary to relieve the load on the sewage farms by primary treatment works.

The layout consists of laterals, mains, and interceptors. The construction covers many types.

Bloomington and Normal Sewage Treatment Plant. Stanley Pinel. Water Works, vol. 66, No. 4, April, 1927, pp. 141-145. (Abstract by H. B. Hommon.)

The treatment plant was designed to treat sewage from a population of 54,000 (estimate for 1950) and includes grit chamber, pumping station, primary settling tanks (Imhoff), sludge-drying beds, dosing tanks, sprinkling filters, and secondary tank with mechanical device for concentrating sludge around outlet.

About one-third of the sludge beds is covered with a greenhouse type of building. The sprinkling filters, made of crushed stone, are 8 feet deep.

Sewage Treatment and Disposal Research for California. C. G. Gillespie. Western Construction News, vol. 2, No. 4, February 25, 1927, pp. 31-32. (Abstract by E. A. Reinke.)

This is an argument in favor of a bill before the California State Legislature to appropriate moneys for sewage and industrial waste research. An outline of the proposed work is given. The article should be of particular value to engineers who wish to support similar legislation.

Court Decides Use of Private Stream for Drainage Constitutes Illegal Possession. Memorandum furnished by Canadian Department of Health. (Abstract by V. M. Ehlers.)

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Litigation begun July, 1923, by Dr. D. E. Lecavalier against the city of Montreal to restrain the city from using certain land owned by Doctor Lecavalier for drainage was concluded April, 1927, the Superior Court decreeing that the city of Montreal should pay Doctor Lecavalier \$144,000 for the property, and a registration of the present judgment is to serve as a legal title to the property.

In 1923 the city was enjoined by the court to refrain from sending drainage through the property in question. Refusing to refrain, the city was fined \$500 for contempt. This procedure was repeated in 1924 and again in 1925, when the fine was increased to \$2,000.

Inasmuch as the city had refused to abide by the decision of the court in these three instances, the judgment stated that the city had obtained illegal possession of the property, thereby entitling the plaintiff to receive payment. The amount due as decreed by the court was based upon the opinion of an expert real-estate man and included interest at 5 per cent per annum for a period of 12 years, the time during which the city had illegally used the land.

Public Health Engineering in Latin America. E. H. Magoon. American Journal of Public Health, vol. 17, No. 4, April, 1927, pp. 336-341. (Abstract by Chester Cohen.)

The article is a discussion of the working plans of the sanitary service in the various Latin American countries. It describes the organization and administration of the departments of sanitation and sanitary engineering and gives an idea of the scope of work and general attitude of the public towards the problems of public health engineering.

The sanitary service of Nicaragua is interesting in that it gives considerable responsibility to the engineering section and represents an organization suitable for rapid and efficient progress in the field work of the health department without involving large expenditures by the State. The existing health divisions have been united into a compact unit, and each city and town government is obliged by law to set aside 10 per cent of its revenues for sanitary works or for the maintenance of municipal sanitary service as directed by the director general of health. The municipal governments are required to submit plans to this director for approval of all works which have a relation to public health, such as public markets, slaughter houses, hospitals, asylums, water systems, sewerage systems, drainage systems, schools, etc. The health law empowers the section of sanitation and sanitary engineering to have in its charge the approval of all sanitation plans of the town, sanitation of the ports and such measures as may be necessary to avoid the invasions of diseases, approval of plans of public buildings and residences which have to do with public hygiene, sanitary inspections of public and private buildings, the direction of antimalaria work, the adoption of types of latrines for different regions of the country, and such studies and investigations as may be assigned them by the director general.

Typhoid Fever—Chicago Establishes a Record. Dr. Herman N. Bundesen, Commissioner of Health. Chicago's Health, vol. 21, No. 4, January 25, 1927, pp. 26-32. (Abstract by I. W. Mendelsohn.)

In 1926 there were 149 cases of and 24 deaths from typhoid fever, the death rate being 0.79 per 100,000 population. This is the lowest death rate for typhoid fever in the city's history. Comparative figures are given, including city records since 1867, and of other large cities of the United States. The tables also include an interesting statistical analysis of the occurrence of typhoid fever in the city in 1926. The number of typhoid carriers on record at the end of the year was 49.

The effective control of typhoid fever in Chicago is attributed to: (1) More careful and more exact chlorination of the water supply; (2) more effective and more efficient Pasteurization of the milk supply; and (3) more careful work in the discovery and supervision of carriers.

Opportunities for Engineers in the United States Civil Service. United States Civil Service Commission Pamphlet, November, 1926. 42 pages. (Abstract by I. W. Mendelsohn.)

This pamphlet gives general information of the work performed by various engineers, including sanitary, in all branches of the Federal Government, together with the number of engineers in the various grades and salaries received. Sanitary engineers are employed in the Bureau of Animal Industry, Department of Agriculture (2), the Public Health Service (22), the Veterans' Bureau (1), and the Quartermaster Corps, War Department (2).

Annual Report of President of Board of Health of the Territory of Hawaii for Fiscal Year Ending June 30, 1926. 207 pages. (Abstract by I. W. Mendelsohn.)

This report gives a review of work accomplished by each bureau of the health department. The reports of the sanitary inspectors of the islands consider supervision of milk supplies, rural sanitation, sanitation of canneries, sugar cane and pineapple plantations, garbage and refuse disposal, mosquito and plague control, plumbing, and water and sewerage.

Bureau of Sanitary Engineering.—The activities of this bureau include preparing plans and specifications for several public cottages and buildings, including those for the board of health; investigating public water supplies and sewage disposal conditions; preparing an estimate of the population of the Territory and its subdivisions; preparing maps of various kinds for all bureaus of the health department; and water analyses in the laboratory.

During the year four public water-supply systems were installed. Plans were being prepared for four new public supplies, and also for additions to the Honolulu system. Plans are being prepared for a number of public sewerage systems.

The liquid wastes from industries, including pineapple canneries at Honolulu, are being discharged into Kalihi Bay, part of Honolulu harbor. This is causing a serious condition.

Annual Report of the International Health Board of the Rockefeller Foundation for the year 1925. The Military Surgeon, vol. 59, No. 3, September, 1926, pp. 379–383. (Abstract by R. E. Tarbett.)

The board gave assistance to public health enterprises in 97 States and countries, in connection with disease surveys, control of yellow fever and hookworm, studies in connection with malaria control, assistance in rural health work, and educational work.

In addition to work in Tennessee with the State board of health, hookworm control was carried on in the Spanish-American countries and the West and East Indies. Field studies in malaria and malaria demonstrations were continued in 12 States of the United States—Porto Rico—one state each in Brazil and Argentina—Italy, Palestine, and the Philippine Islands, some work also being done in Haiti, Costa Rica, and Nicaragua.

The freedom of the Western Hemisphere from yellow fever released men and funds for work on the West Coast of Africa, this work being started about the middle of the year.

Assistance was also rendered to the county health service in the United States.

A Summary of the Sanitary Condition of Incorporated Cities of Florida, 1927.

Pamphlet, Bureau of Engineering, Florida State Board of Health. 40 pages. (Abstract by E. J. Theriault.)

Results of sanitary surveys. The condition of the towns is of January-February, 1927. Members of the field force of the bureau of engineering made the necessary visits to each town and city. It is proposed to make this "inventory" of sanitary conditions each year.

State Regulation of Public Baths, Swimming Pools, Laundries or Washhouses, and Comfort or Convenience Stations. Anon. Journal of the American Associa-

tion for Promoting Hygiene and Public Baths, vol. 9, April, 1927, pp. 63-65. (Abstract by Arthur P. Miller.)

This compilation is a summary of the State regulations on the places enumerated in the title. It would be exceedingly useful to anyone desiring to prepare such regulations or revise existing ones.

The Comfort Zone for Men at Rest Stripped to the Waist. C. P. Yagloglou, Journal of the American Society of Heating and Ventilating Engineers, vol. 33, No. 5, May, 1927, p. 285. (Abstract by Leonard Greenburg.)

This paper records the results obtained in a series of experiments designed for the purpose of delineating the comfort zone for men at rest and stripped to the The experiments were performed in the psychrometric chamber of the department of ventilation and illumination, Harvard School of Public Health. Eighty-five men acted as subjects, their ages varying from 20 to 55 years. periments took place in the winter of 1925-26, and in the summer of 1926. The humidity was maintained at 30 per cent in 8 of these studies and at 70 per cent in 8 other studies. In general, the experiments took place in the afternoon While in the chamber the subjects sat at their and lasted from 2½ to 4 hours. ease in chairs and read, wrote, or conversed. Every 10 minutes they were asked to express their sensations of warmth in five different groups, viz: (1) cold; (2) comfortably cool; (3) very comfortable; (4) comfortably warm; (5) too warm. In order to eliminate the effects of diurnal changes in the adaptation to atmospheric conditions, the region of probable comfort was explored by starting at a warm condition and going to the most comfortable condition and starting at a cool condition and increasing temperatures to the most comfortable condition, and lastly by starting at the most comfortable condition and in one series by increasing temperatures and in other series by decreasing temperatures. these studies the comfort zone for men at rest and stripped to the waist was found to lie between 66° and 83° on the effective temperature scale with the optimum at $72\frac{1}{2}^{\circ}$. The author feels that the failure to discover evidence of seasonal acclimatization may proceed from either of two causes: the data obtained in the summer may be too few, or the seasonal changes in adaptation to climate may be smaller than the experimental error. A valuable thermometric chart for human beings at rest and stripped to the waist is presented. to the previous charts issued by the American Society of Heating and Ventilating Engineers, but in addition it is provided with a comfort scale.

School Ventilation Laws. Thomas J. Duffield. Journal of the American Society of Heating and Ventilating Engineers, vol. 33, No. 6, June, 1927, p. 388. (Abstract by Leonard Greenburg.)

This very brief paper provides certain basic principles which the New York State Commission on Ventilation have formulated in response to requests for suggestions as to the matter which should be included in school ventilation laws. The requirements for heating and ventilation are essentially the following: (1) The provision of sufficient heating capacity to heat (a) corridors, gymnasiums, and shops to a temperature of 65°; (b) swimming pools and dressing rooms, 75°; (c) all other occupied rooms, 68°; (2) all classrooms shall have at least 15 square feet of floor space per pupil and should have a system of ventilation capable of avoiding the production of unpleasant odors usually associated with more than 15 parts of carbon dioxide per 10,000, and capable of functioning without pro-Such ventilation shall be accomplished by either window ducing chilling drafts. gravity or mechanical means or by any other method which will attain the Ventilation of auditoria, chemical laboratories, shops, etc., shall be obtained preferably by mechanical means; (3) every schoolroom shall be provided with at least one thermometer; (4) an approved system of ventilation shall be maintained in operation whenever school is in session.

Report of the Committee on Milk Supply. Anon. American Journal of Public Health, vol. 7, No. 4, April, 1927, pp. 367-379. (Abstract by R. E. Irwin.)

The committee gave consideration to "(1) the effect of the processing of milk, especially Pasteurization, on its creaming ability, and (2) an outline of the principles upon which definitions of Pasteurization should be based."

"In the literature reviewed on the creaming ability of milk, the committee found that various factors had been reported by investigators as affecting the creaming ability of raw milk. These include the breed of cattle from which the milk is obtained, the stage of lactation of the dairy cow, the percentage of fat in the milk and the size and grouping of the fat globules, the viscosity of the milk serum, the temperature of the milk during creaming, the recreaming of the milk, the passing of the milk through a separator and remixing the cream and the milk, and the agitation of the milk."

"The factors reported in the literature as affecting the creaming ability of the milk after it reaches the Pasteurization plant are clarification, Pasteurization (including heating and holding, type of apparatus, heating medium), agitation, cooling, and storing."

In discussing the principles on which a definition for Pasteurization should be based, the committee includes the following: "(1) Health officers are not now possessed of the proper data to enable them wisely to formulate and apply a complete definition of Pasteurization; (2) a proper definition of Pasteurization will be one which applies to every particle of milk Pasteurized and which requires in addition a margin of safety for the design and operation approximations of commercial practice; (3) each make of apparatus must be tested to determine its required margin of safety and to disclose design defects which must be corrected, and then subsequent tests should be made to determine the continued efficiency of the apparatus under operating conditions; (4) the testing work should preferably be done by an agency whose work will be respected nationally by both health officials should support vigorously effective control over Pasteurization, and in addition to existing time and temperature requirements, they should apply the Pasteurization specifications outlined in this report."

Food Poisoning by Rats. Anon. Hygeia, vol. 5, No. 6, June, 1927, p. 14. (Abstract by H. D. Cashmore.)

The matter of food poisoning by rats is still an important problem. Meyer and Matsumura, of the California Hooper Foundation for Medical Research, found approximately 8 per cent of the rats examined infected with one or two transmissible bacterial diseases, 2 per cent shedding virulent types capable of infecting food, and, further, that 6 per cent near slaughterhouses and retail merchants could do this.

Feces were added to food of kittens and tame rats and four rat-borne diseases were produced—hemorrhagic septicemia, plague, rat typhoid, and pseudo-tuberculosis. The first, being similar to plague, has complicated the campaigns against it, but now that the specific organism has been located and classified, the disease can be definitely diagnosed.

If conditions exist as these observers picture them, it is high time that a very definite program for the eradication of the rat be instituted, for there are no doubt worse conditions elsewhere than these men found.

Examination for Entrance into the Regular Corps of the United States Public Health Service

Examinations of candidates for entrance into the Regular Corps of the United States Public Health Service will be held at the following-named places on the date specified:

Washington, D. C.	Nov. 7, 1927.
Chicago, Ill	
New Orleans, La	Do.
San Francisco, Calif	

Candidates must be not less than 23 nor more than 32 years of age, and they must have been graduated in medicine at some reputable medical college, and have had one year's hospital experience or two years' professional practice. They must pass satisfactorily oral, written, and clinical tests before a board of medical officers and undergo a physical examination.

Successful candidates will be recommended for appointment by the President, with the advice and consent of the Senate.

Requests for information or permission to take this examination should be addressed to the Surgeon General, United States Public Health Service, Washington, D. C.

DEATHS DURING WEEK ENDED AUGUST 6, 1927

Summary of information received by telegraph from industrial insurance companies for week ended August 6, 1927, and corresponding week of 1926. (From the Weekly Health Index, August 10, 1927, issued by the Bureau of the Census, Department of Commerce)

	Week ended Aug. 6, 1927	Corresponding week 1926
Policies in force	68, 155, 875	65, 044, 993
Number of death claims	11, 530	10, 197
Death claims per 1,000 policies in force, annual rate	8. 8	8. 2

Deaths from all causes in certain large cities of the United States during the week ended August 6, 1927, infant mortality, annual death rate, and comparison with corresponding week of 1926. (From the Weekly Health Index, August 10, 1927, issued by the Bureau of the Census, Department of Commerce)

		ded Aug. 1927	Annual death rate per	Death 1 y	Infant mortality	
City	Total deaths	Death rate 1	1,000 corre- sponding week 1926	Week ended Aug. 6, 1927	Corresponding week 1926	rate, week ended Aug. 6, 1927 ²
Total (66 cities)	5, 715	10. 4	3 10. 6	645	3 712	4.54
White. Colored Baltimore 5 White. Colored. Birmingham White. Colored. Bridgeport. Buffalo. Cambridge. Camden Canton Chicago 5 Cincinnati Cleveland	48 34 194 141 53 57 26 31 20 124 19 16 13 575	(e) 12. 4 (f) 13. 8 (e) 11. 8 8. 0 6. 3 6. 0 9. 7 14. 0 7. 6	13. 3 11. 9 21. 5 15. 6 11. 4 19. 5 	8 9 25 16 9 8 2 6 3 17 1 3 2 74 15 18	6 5 14 10 4 6 3 3 2 19 4 2 2 0 71 18 21	777 62 140 56 71 18 52 47 64 94
Columbus Dallas White Colored Dayton Denver Des Moines Detroit Duluth El Paso Erie Fall River Fall River Fall Witte Fort Worth White Duluth End was Erie Fall River Fall Ri	62 48 35 13 41 60 31 223 25 27 19 24 19 39	11. 1 12. 0 (e) 11. 9 10. 8 10. 8 8. 7 11. 3 12. 3	12.4 12.1 11.6 15.4 6.2 11.0 8.6 9.8 10.6 8.6	7 5 3 2 6 5 5 5 6 6 2 3 7	8 12 11 1 4 3 1 40 3 5 6 6 5	65 99 84 57 22 39 73 114
Colored Grand Rapids. Houston White. Colored Indianapolis. White Colored Jersey City Kansas City, Kans. White Colored Colored Kansas City, Kans.	53 53 53 20 69 57 12 53 33 24 9 93 31	(6) 9. 6 (6) 8. 6 14. 7	12.6 12.1 16.6 8.4 16.0 11.3 38.2 14.0	2 2 3 9 7 2 6 5 1 3 3 0 14	2 6 6 0 13 11 2 8 5 2 3 12	447 45 61 22 58 67 0
White Colored Los Angeles Louisville White Colored Lynn Memphis White Colored Milwaukee Minneapolis Nashville 's White Colored More of the colored Manuel of the colored Nashville 's White Colored New Bedford New Bedford New Haven	29 2 231 71 51 27 22 23 40 46 46 30 16 21 24	(6) 11. 6 (6) 12. 8 10. 9 23. 0 (7. 6 17. 4 (8) 9. 2 6. 8	11. 4 10. 3 17. 8 12. 3 7. 0 19. 4 10. 1 36. 4 8. 8 9. 7 13. 3 8. 5 25. 4 10. 0 7. 4	23 12 8 4 9 1 10 2 8 7 6 6 4 2 3 3	25 17 14 3 3 1 11 4 7 7 5 5 2 6	66 102 78 280 173 26 33 34

Deaths from all causes in certain large cities of the United States during the week ended August 6, 1927, infant mortality, annual death rate, and comparison with corresponding week of 1926—Continued

		ded Aug. 1927	Annual death rate per	Death 1 y	Infant mortality	
City	Total deaths	Death rate	1,000 corre- sponding week 1926	Week ended Aug. 6, 1927	Corre- sponding week 1926	rate, week ended Aug. 6, 1927
New Orleans. White. Colored New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough Newark, N. J Oakland Oklahoma City Omaha Paterson Philadelphia Pittsburgh Portland, Oreg Providence Richmend White. Colored Rochester: St. Louis St. Paul Salt Lake City 3 San Antonio San Diego. San Praneisco. Schenectady Seattle. Somerville Spokare Springfield, Mass Syracuse Tacoma Toledo. Trenton Washington, D. C	160 88 88 1, 115 152 367 442 110 104 44 779 53 28 47 47 26 454 41 133 50 47 42 22 22 20 57 77 160 163 163 163 163 163 163 163 163 163 163	19. 7 (9) 9. 7 8. 6 8. 4 12. 7 7. 1 15. 6 8. 8 10. 4 11. 2 9. 4 11. 4 11. 4 11. 4 11. 5 11. 4 11. 5 11. 4 11. 6 11. 8 8. 7 11. 4 11. 8 5. 6	17. 5 14. 1 27. 3 9. 9 8. 3 7. 9 14. 0 7. 2 10. 9 10. 6 10. 6 10. 1 12. 1 7. 6 13. 5 10. 5 10. 5 10. 5 10. 5 10. 5 10. 7 11. 3 10. 7 11. 3 10. 7 11. 3 10. 7 11. 3 10. 7 11. 3 10. 7 11. 3 11. 3 11. 3 11. 4 11. 4 11. 5 11. 6 11. 6	20 9 11 129 125 52 53 10 2 9 3 4 4 5 5 5 6 6 6	17 12 5 131 111 45 58 11 6 17 4 4 7 3 3 56 9 2 2 7 3 3 2 5 3 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	53 54 62 43 337 45 35 56 0 49 49 42 27 46 42 27 46 0 75 51 15 51 51 24 29 70 69
Waterbury. Wilmington, Del. Worcester. Yonkers. Youngstown	26 17 33 11 18	7.0 8.8 4.8 5.6	7. 6 8. 1 9. 4 10. 7	3 1 2 1 2	5 4 0 2 3	71 25 24 23 28

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Data for 65 cities. Data for 60 cities.

Deaths for week ended Friday Aug. 5, 1927.

Deaths for week ended Friday Aug. 5, 1927.

In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Indianapolis 11, Kansas City (Kans.) 14, Knoxville 15, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Richmond 32, and Washington, D. C., 25.

PREVALENCE OF DISEASE

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

UNITED STATES

CURRENT WEEKLY STATE REPORTS

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

Reports for Week Ended August 13, 1927

Arizona 2 Arkansas 1 Arkansas 1 California 2 Colifornia 65 Florida 2 Colorado 21 Georgia 2 Connecticut 33 Illinois 2 Florida 10 Indiana 1 Georgia 18 Kansas 3 Idaho 2 Louisiana 1 Illinois 90 Maryland I 3 Indiana 18 Massachusetts 3	DIPHTHERIA	Cases	INFLUENZA	Cases
Arkansas 1 California 6 California 65 Florida 2 Colorado 21 Georgia 2 Connecticut 33 Illinois 2 Florida 10 Indiana 1 Georgia 18 Kansas 8 Idabo 2 Louisiana 10 Illinois 90 Maryland 1 9 Indiana 18 Massachusetts 10	Alabama	17	Alabama	. 12
California 65 Florida 4 Colorado 21 Georgia 2 Connecticut 33 Illinois 2 Florida 10 Indiana 1 Georgia 18 Kansas 8 Idabo 2 Louisiana 10 Illinois 90 Maryland 1 9 Indiana 18 Massachusetts 1	Arizona	2	Arkansas	. 14
Colorado 21 Georgia 2 Connecticut 33 Illinois 2 Florida 10 Indiana 1 Georgia 18 Kansas 8 Idaho 2 Louisiana 10 Illinois 90 Maryland ! 9 Indiana 18 Massachusetts 1	Arkansas	1	California	. 4
Colorado 21 Georgia 2 Connecticut 33 Illinois 2 Florids 10 Indiana 1 Georgia 18 Kansas 8 Idaho 2 Louisiana 10 Illinois 90 Maryland ! 9 Indiana 18 Massachusetts 1	California	65	Florida	. 4
Connecticut 33 Illinois 2 Florids 10 Indiana 11 Georgia 18 Kansas 8 Idaho 2 Louisiana 10 Illinois 90 Maryland ! 9 Indiana 18 Massachusetts 12		21	Georgia	. 24
Florida		33	Illinois	. 23
Georgia 18 Kansas 8 Idaho 2 Louisiana 10 Illinois 90 Maryland ! 9 Indiana 18 Massachusetts 10		10		
Idaho 2 Louisiana 10 Illinois 90 Maryland 1 1 Indiana 18 Massachusetts 1		. 18		
Illinois		2	Louisiana	. 10
Indiana 18 Massachusetts		90	Maryland 1	. 5
Town !		18	Massachusetts	. 2
	Iowa 1	5	Okláhoma ³	. 8
			South Carolina	. 106
	Massachusatts			
Michigan				. 0
ELASLES				
			Arkansas	. 14
		- 1	California	. 50
New Jersey 68 Connecticut	Now Jarony		Colorado	2
Commonwar	Now Marian			
	Now York ?	- 1		
		1.7	Koncoe	23
			Louisiana	
10 No. in .				_
Maryland 1		1	Maryland 1	
Massachusetts 62			Massachusetts	62
Texas 22 Michigan				25
Otan ' 4 Minnesota 13		4		13
Vermont 1 Missouri 7				
Washington 16 Montana 2				2
West Virginia 12 Nebraska 8		12	Nebraska	\mathbf{s}
Wisconsin 26 New Jersey 18	Wisconsin	26	New Jersey	18
New Mexico			New Mexico	7

¹ Week ended Friday.

² Exclusive of New York City.

³ Exclusive of Oklahoma City and Tulsa.

¹ Week ended Friday.

Exclusive of Oklahoma City and Tulsa.

measles—continued	Cases	POLIOMYELITIS—continued	Cases
New York ?	93	Tennessee	
North Carolina	164	Texas	
Oklahoma 3		Wisconsin	. 2
Oregon	17	SCARLET FEVER	
Pennsylvania		Alabama	. 19
Rhode Island	1	Arizona	
South Carolina		Arkansas	
South Dakota		California	38
Tennessee		Colorado	
Texas		Connecticut	
Utah 1		Florida	
Vermont		Georgia	
Washington		Idaho	
West Virginia		Illinois	
Wisconsin		Indiana	
Wyoming	4	Iowa.	
MENINGOCOCCUS MENINGITIS		Kansas	
Alabama	. 2	Louisiana	
California		Maine.	
Connecticut	1	Maryland	
Florida	2	Massachusetts	
Idaho	ī	Miehigan	
Illinois	3	Minnesota	
Kansas	5	Mississippi	
Michigan	1	Missouri	
Minnesota	î	Montana	29
Missouri	2	Nebraska	28
Montana	1	New Jersey.	29
Nebraska	î.	New Mexico	
Oregon	8	New York	46
Pennsylvania.	1.	North Carolina.	20
Tennessee.		Oklahoma	9
Washington	1	Oregon	4
West Virginia.	1	Pennsylvania	44
Wisconsin	5	Rhode Island	4
	•	South Carolina	13
POLIOMYELITIS		South Dakota	3
Alabama	1	Tennessee.	35
Arizona	1	Texas	14
California	63	Utah.	8
Colorado	1	Vermont	1
Connecticut	8	Washington	6
Florida	2	West Virginia	15
Illinois	7	Wisconsin	68
Indiana	3	Wyoming	2
Iowa 1	1		
Kansas	4	SMALLPOX	
Louisiana	1	Alabama	3
Massachusetts	28	Arkansas	. 2
Michigan	2	California	7
Minnesota	1	Florida	7
Mississippi	1	Idaho	2
Missouri	8	Nlinois	4
Nebraska	1	Indiana	30
New Jersey	13	Iowa 1	9
New Mexico	9	Kansas	2
New York 2	13	Louisiana	1
North Carolina	1	Michigan	11
Oklahoma 3	11	Mississippi	2
Oregon	1	Missouri	3
Pennsylvania	4	Nebraska	6
South Carolina	2	North Carolina	4
	1	() blanama j	20

¹ Week ended Friday.

² Exclusive of New York City.

³ Excluisve of Oklahoma City and Tulsa.

Week ended Friday.
 Exclusive of Oklahoma City and Tulsa.

SMALLPOX—continued	Cases	TYPHOID FEVER—continued	Cases
Oregon	15	Maine	8
Pennsylvania	1	Maryland 1	51
South Carolina	3	Massachusetts	16
South Dakota	. 3	Michigan	15
Tennessee	2	Minnesota	10
Texas	. 16	Mississippi	29
Utah 1	. 1	Missouri	31
Washington	. 8	Montana	3
West Virginia	_ 29	Nebraska	10
Wisconsin	. 6	New Jersey	16
		New Mexico	3
TYPHOID FEVER		New York 2	25
Alabama	- 70	North Carolina	103
Arizona		Oklahoma 3	95
California	•	Oregon	3
Colorado		Pennsylvania	29
Connecticut		Rhode Island	1
Delaware		South Carolina	142
Florida		Tennessee	148
		Texas	18
Georgia		Utáh 1	2
Idaho		Washington	3
Illinois		West Virginia	24
Indiana		Wisconsin	12
Iowa ¹		Wyoming	1
Kansas			
Louisiana	- 43	Week ended Friday.	
	-	* Exclusive of New York City.	
¹ Week ended Friday.		¹ Exclusive of Oklahoma City and Tulsa.	

Reports for Week Ended August 6, 1927

DIPHTHERIA Cases	SCARLET FEVER Cases
District of Columbia 10 North Dakota 7	District of Columbia
North Dakota	SMALLPOX District of Columbia
MENINGOCOCCUS MENYNGITIS North Dakota	TYPHOID FEVER District of Columbia

SUMMARY OF MONTHLY REPORTS FROM STATES

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

State	Meningo- coccus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
April, 1927										
Arkansas	0	19	227	102	719	26	0	19	20	2 5
June, 1927										
Hawaii Territory Rhode Island	2	41 48	3 1		81 30		. 0	5 107	0	11 0
July, 1927										
Arizona Connecticut Georgia Nebraska	0 4 1	6 77 44 20	5 124	295	318 131 102 107	89	14 4 6 0	13 85 37 53	1 0 85 4 5	10 9 39 9 1i
North Dakota Vermont	1 0	9 4		1	31 158		0 2	83 15	13 0	3

April, 19 2 7		July, 1937—Continued	
Arkansas:	Cases	Dengue:	Cases
('hicken pox	120	Georgia	. 1
Hookworm disease	. 1	Dysentery:	
Mumps	109	Georgia	. 78
Ophthalmia neonatorum	2	German measles:	
Trachoma	5	Connecticut	. 9
Whooping cough	254	Nebraska	19
June, 1927		Leprosy:	
Chicken pox:		Arizona	. 1
Hawaii Territory	18	Malta fever:	
Rhode Island	71	Arizona	2
Conjunctivitis:		Mumps:	
Hawaii Territory	1	Arizona	13
German measles:		Connecticut	
Rhode Island	2	Georgia	
Leprosy:		Nebraska	
Hawaii Territory	4	North Dakota	
Mumps:		Vermont	
Rhode Island	23	Rabies in animals:	
Ophthalmia neonatorum:		Connecticut	4
Rhode Island	1	Septic sore throat:	
Septic sore throat:		Connecticut	3
Rhode Island	2	Georgia	14
Tetanus:		Tetanus:	
Hawaii Territory	2	Connecticut	3
Whooping cough:		Trachoma:	
Hawaii Territory	35	Arizona	t
Rhode Island	22	Tularaemia:	_
July, 1927		North Dakota	2
Anthrax:	- 1	Typhus fever:	
Georgia	1	Georgia	1
Chicken pox:	- [Whooping cough:	_
Arizona	8	Arizona	. 2
Connecticut	157	Connecticut	113
Georgia	8	Georgia	118
Nebraska.	30	Nebraska	62
North Dakota	17	North Dakota	15
Vermont	67	Vermont.	84
• • • • • • • • • • • • • • • • • • • •	•	***************************************	

PLAGUE-INFECTED GROUND SQUIRRELS IN CONTRA COSTA COUNTY, CALIF.

With further reference to the case of bubonic plague at Clayton, Contra Costa County, Calif., July 8, 1927, Dr. Walter M. Dickie, director of the California State Department of Public Health, in a letter dated August 10, states that two groups of ground squirrels (four in one group and six in the other) from two ranches in the Clayton district have been proved positive for plague by laboratory inoculation and confirmed by cultures.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of nearly 30,350,000. The estimated population of the 92 cities reporting deaths is nearly 30,200,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

¹ Public Health Reports, July 22, 1927, p. 1920.

Weeks ended July 30, 1927, and July 31, 1926

	1927	1926	Esti- mated expect- ancy
Cases reported			
Diphtheria: 41 States. 95 cities.	967 550	858 454	520
Measles: 40 States	1, 845 340	2, 588 610	
Poliomyelitis: 42 States Scarlet fever:	142	63	
41 States95 cities	1, 029 367	1,062 411	269
Smallpox: 41 States	223 30	184 29	33
Typhoid fever: 41 States	892 123	1, 069 171	171
Deaths reported			
Influenza and pneumonia: 92 cities	302	283	•••••

City reports for week ended July 30, 1927

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that 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 1918 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

;	July 1, 1925,	a 1 · 1	Diph	Diphtheria		Influenza			Pneu-
Division, State, and city		Chick- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	monia, deaths re- ported
NEW ENGLAND									
Maine:			1						İ
Portland	75, 333	1	1	0	0	0	0	0	0
New Hampshire:						ا م			0
Concord	22, 546	0	0	0	0	0	0	0	ő
Vermont:	83, 097	U	1	U	٥	١	U	U	Ů
Barre	10,008	0	0	0	-0	0	0	0	0
Burlington	24, 089	ž	Ŏ	ŏ	Ŏ	Ŏ	Ō	1	0
Massachusetts:								_	
Boston	779, 620	18	33	25	2	1	68	8	10 2
Fall River	128, 993	2	3	3	. 0	0	0	1	0
Springfield	142, 065	5	1	3	0	0	0	0	3
Worcester	190, 757	1	2	0	0	U	U	U	,
Rhode Island: Pawtucket	69, 760	0	0		0	0	0	0	2
Providence.	267, 918	ŏ	3	4	ŏ	ŏ	2	ň	ī
Connecticut:	201, 010			-	· ·	· ·	-		-
Bridgeport	(1)	0	4	2	0	0	0	0	1
Hartford	160, 197	ŏ	2	ī	ŏ	ŏ	ŏ	3 2	1
New Haven	178, 927	ŏ	ī	ō	ŏ	ŏ	3	2	1

¹ No estimate made.

			Diph	theria	Influ	ienza			
Division, State, and city	Population July 1, 1925, 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
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse	538, 016 5, 873, 356 316, 786 182, 003	76 3 3	9 123 4 3	6 138 1 1	4	0 6 0	5 15 2 15	5 33 4 0	68 68 0
New Jersey: Camden Newark Trenton	128, 642 452, 513 132, 020	2 26 0	2 6 2	3 9 0	0 0	0 0 0	0 1 0	1 12 0	3 5 2
Pennsylvania: Philadelphia Pittsburgh Reading	1, 979, 364 631, 563 112, 707	21 10 1	38 12 1	34 16 2		2 1 0	13 33 8	34 4 8	18 10 0
EAST NORTH CENTRAL									
Ohio: CincinnatiClevelandClumbusToledo	409, 333 936, 485 279, 836 287, 380	0 23 3 9	5 17 2 ·3	2 31 4 3	0 0 0 1	1 0 0 1	0 0 0 7	32 0 4	0 8 0 4
Indiana: Fort Wayne Indianapolis South Bend Terre Haute	97, 846 358, 819 80, 091 71, 071	1 1 0 0	1 3 0 0	0 6 1 1	0 0	0 1 0 0	0 0 0	0 0	1 5 3 0
Illinois: Chicago Springfield	2, 995, 239 63, 923	45 2	51 0	67 0	1 0	0	2 6	27 0	30 0
Michigan: DetroitFlintGrand Rapids	1, 245, 824 130, 316 153, 698	9 0 1	31 3 2	23 2 0	2 0 0	0 0 0	2 2 9	18 1 1	8 3 2
Wisconsin: Kenosha Madison Milwaukee Racine Superior	50, 891 46, 385 509, 192 67, 707 39, 671	1 1 25 1 0	1 0 9 1 0	0 2 14 1 1	0 0 0 0	0 0 0 0	0 1 31 0	6 1 27 0 0	1 0 2 0 0
WEST NORTH CENTRAL Minnesota:									
Duluth Minneapolis St. Paul	110, 502 425, 435 246, 001	7 30 4	0 10 10	2 5 2	0 0 0	0 0	0 0 1	0	1 3 0
Des Moines Sioux City Waterloo	141, 441 76, 411 36, 771	0 1 0	2 1 0	3 1 2	0 0 0		0 3 1	. 0 0	
Missouri: Kansas City St. Joseph St. Louis	367, 481 78, 342 821, 543	0 0 0	2 1 19	2 1 10	0 0 0	0 0 0	4 0 7	4 0 17	2 1
North Dakota: Fargo Grand Forks South Dakota:	26, 403 14, 811	0	0	0	0	0	0	0	0
AberdeenSioux Falls Nebraska:	15, 036 30, 127	0	0	0	: 0		0	0	
Lincoln Omaha Kansas:	60, 941 211, 768	0	0 4 0	1 3 0	0 0 1	0	3 1 3	1 0 0	0 0 1
Topeka	55, 411 88, 367	0	1	Ö	ō	ŏ	ő	i	Ô
SOUTH ATLANTIC Delaware:				: '					
Wilmington Maryland:	122, 049	0	0	1	0	0	1	0	0
Baltimore Cumberland Frederick District of Columbia:	796, 296 33, 741 12, 035	5 0 0	11 1 0	25 0 0	0 0 0	0	6 0 0	1 0 0	5 0 0
Washington	497, 906	3	4	18	0	0	1	0	3

¹ No estimate made.

			Diph	theria	Influ	ienza .			
Division, State, and city	Population July 1, 1925, 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
SOUTH ATLANTIC-con.									
Virginia: Lynchburg Norfolk Richmond Roanoke	30, 395 (¹) 186, 403 58, 208	0 0	0 0 2 0	1 0 1 0	0	0 0 0	0 2 2 1	0 1 1 0	
West Virginia: Charleston Wheeling	49, 019 56, 208	. 0	1	1 0	0	0	0	0	
North Carolina: Raleigh Wilmington Winston-Salem	30, 371 37, 061 69, 031	1 0 1	0	0	0	0	3 0 7	0 0 11	
South Carolina: Charleston Columbia Greenville	73, 125 41, 225 27, 311	0 0	0	0 0	4 0	0	0 1 0	0	
Georgia: Atlanta Brunswick	(1) 16, 809	0	2. 0	1	10	0	0	0	
Brunswick Savannah Florida:	93, 134	0	Ŏ	1	0	0	3	1	(
Miami St. Petersburg Tampa	69, 754 26, 847 94, 743	0 0 0	0	1 0 0	0 0 1	0 0 1	1 0 2	0	(
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	0	1 2	<u>1</u>	0		<u>2</u>	i	i
Memphis Nashville Alabama:	174, 533 136, 220	0	2 1	0 1	0	1 0	0	0 2	3
Birmingham Mobile Montgomery	205, 670 65, 955 46, 481	1 0 0	. 1 0 0	4 0 0	6 0 0	0 1 0	7 0 0	4 0	5 0 0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little RockLouisiana:	31, 643 74, 216	i	0		i	0	2	0	2
New Orleans Shreveport Oklahoma:	414, 493 57, 857	0	4	6 0	4 0	1 0	1 0	0	9
Oklahoma City Tulsa	(1) 1 24, 47 8	0	1 0	0 1	2	0	1 0	0	5
Texas: Dallas Galveston: Houston San Antonio	194, 450 48, 375 164, 954 198, 069	1 0 0	2 0 1 1	2 0 4 5	0	0 0 1 0	3 0 4 2	0 0 0 1	1 3 2 2
MOUNTAIN	100,000	١	- 1	1	1	Ĭ	1	1	_
Montana: Billings Great Falls Helena	17, 971 29, 883 12, 037	0 4 0	0 1 1	0	0	0	0 2 0	0	0 0 0
MissoulaIdaho:	12, 668	0	0	0	0	0	0	0	1
Boise Colorado: Denver	23, 042 280, 911	3	9	9	0	0	0	0	0
Pueblo New Mexico:	43, 787	1	1	1	0	Ó	1.	0	1
Albuquerque Utah: Salt Lake City	21, 000 130, 948	0 8	0 2	0	0	0	0	0	0 2
Nevada: Reno	12,665	ا	اهٔ		. 0	١	ا	0	0

¹ No estimate made.

					Diph	the	eria		Influ	nza	:		
Division, State, city	and	Populat July 1 1925, estimat	od en	re- rted e	Cases, esti- nated xpect- ancy	-	Cases re- orted		re-	Deaths re- ported	Mea- sles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
PACIFIC													
Washington: Seattle Spokane Tacoma		(1) 108, 1 104,		3	4 0 2		1		0	0	4	0	2
Oregon: Portland		282,	383	4	4		4		0	0	11	0	2.5
California: Los Angeles Sacramento San Francisco		(1) 72, 557,	260 530	7 1 3	30 2 10		26 0 8		2 0 0	. 1 0 0	6 2 7	0 0 6	16 3 2
	Scarl	et fever		Small	юх	<u> </u>			т	yphoid i	ever	Whoop-	
Division, State, and city	Cases esti- mated expect ancy	Cases i re-	Cases, esti- mated expect- ancy	Cases re- ported	re-		Tube culosi death re- porte	is, IS	Cases esti- mated expect ancy	Cases re-	Deaths re- ported	ing cough,	Deaths, all causes
NEW ENGLAND									•		,		
Maine: Portland New Hampshire:	1	0	0	0		0		0	0	0	,	2 0	16 5
Concord Manchester Vermont:	0	0	0	0	1	0		2	0	0	0	0	. 14
Barre Burlington Massachusetts:	0	0 3	0	0		0		0	0	0	0	0	3 3
Boston Fall River Springfield Worcester	17 1 1 1	34 0 1 5	0 0 0	0 0 0		000		5 3 1 3	2 1 0 1	3 0 0 0	0 0 0	34 1 5 0	207 25 23 36
Rhode Island: Pawtucket Providence	0 2	1 3	0	0		0		0 2	0	0	0	0 4	11 43
Connecticut: Bridgeport Hartferd New Haven	2 1 1	0 2 0	0 0 0	0 0 0		000		1 2 3	1 0 1	0 0	0	0 4 2	24 34 34
MIDDLE ATLANTIC							·	1					
New York: Buffalo New York Rochester Syracuse	6 36 3	9 41 0 2	0 0 0	0 0 0		0000	28	5 8 3 2	1 29 1 0	0 18 0 0	0 3 0	28 143 4 1	85 1, 151 58 39
New Jersey: Camden Newark	0 5 0	0 5 0	0	0		0		1 6 4	1 1 1	1 1 1	0 0 0	0 44 1	20 86 28
Trenton Pennsylvania: Philadelphia Pittsburgh Reading	21 10 0	15 7 0	0	0		000	3		9 3 0	2 3 0	1 1 0	32 15 7	364 127 30
EAST NORTH CENTRAL													
Ohio: Cincinnati Cleveland Columbus Toledo	3 12 2 3	15 3 2	0 1 1 0	0 0 0 0		000		8 3	2 3 1 1	2 5 0 2	0 1 0 0	1 4£ 6 85	114 159 69 52

¹ No estimate made.

² Pulmonary tuberculosis only.

	Scarle	t fever		Smallp	ox		Ту	phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough,	Deaths, all causes
EAST NORTH CENTRAL—contd.											
Indiana:						0	0				.,
Fort Wayne Indianapolis	0 3	0 5	0	0	0	11	2	1 2	0	2 6	21 104
South Bend Terre Haute	0 1	0	0	0	0	0	0	0	0	3 6	24 15
Illinois: Chicago	28	40	1	7	0	45	6	4	2	124	584
Springfield Michigan:	ì	2	Ō	Ô	Ō	3	0	0	Ō	0	13
Detroit	26	27	3	0	Į o	25	5	2	2	103	230
Flint Grand Rapids	3	15 2	0	0	0	2 3	1	0	0	3 3	18 38
Wisconsin: Kenosha	1	0	1	0	0	0	1	0	0	0	4
Madison Milwaukee	0 8	1 9	0	0	0	1 6	0	0	0	2 19	4 93
Racine Superior	1	3 5	0 1	0	0	1 0	Ò	Ŏ	Ô	16 0	7 8
WEST NORTH CENTRAL			•		Ū	ŭ				ŭ	Ů
Minnesota:									1		
Duluth Minneapolis St. Paul	3 10 6	10 6	1 3 3	0 0 1	0	1 0 0	0 1 1	0 0 1	0	4 0 6	19 88 42
Iowa: Des Moines	1	2	0	2			0	0		0	
Sioux City Waterloo	0	0	Ŏ	0			0	0		11 1	
Missouri:											00
Kansas City St. Joseph	2 0	2 0	0	1	. 0	5 0	0	2 1	0	8	88 22
St. Louis North Dakota:	6	9	0	0	0	9	8	2	0	36	195
FargoGrand Forks	0	2	0	0	. 0	0	0	0	0	11 0	8
South Dakota: Aberdeen	0	0	Ò	0			0	0		1	
Sioux Falls Nebraska:	ŏ	ő	ŏ	ŏ			ŏ	ŏ		ō	
Lincoln	0	1	0	0	0	0	1	o	0	5	17
Omaha Kansas:	1	5	1	0	0	2	0	0	0	1	32
Topeka Wichita	0	0 2	0	0	0	0	0 2	0 2	0 2	10 2	13 19
SOUTH ATLANTEC											
Delaware:											
Wilmington Maryland:	0	1	0	0	0	1	0	0	0	0	14
Baltimore Cumberland	5	7. 0	0	0	0	9	8	5	0	55 0	174 9
Frederick District of Col.;	ŏ	Ŏ,	ŏ	ŏ	Ŏ	ŏ	Ŏ	Ŏ	ŏ	ŏ	5
Washington	3	9	0	0	0	13	4	3	0	9	126
Virginia: Lynchburg	0	Ò	0	0	0	1	1	0	0	0	10
Norfolk Richmond	0 2	1 2	0	0	0	3 5	2 2	1 1	0	2 0	43
Roanoke West Virginia:	0	0	0	0:	0	0	1	0	2	4	14
Charleston Wheeling	0	1 0	0	1 0	0	0	2	1	0	0	7 12
North Carolina: Raleigh	0	0	0	0	0	1	0	1	0	1	14
Wilmington	ŏ	ŏ	ŏ	ŏ	ŏ	ō	ŏ	i	ŏ	7	6
Winston- Salem	0	0	0	o o	0	2	1	0	1	9	28
South Carolina: Charleston	o	0	0	o	0	0	2	0	0	.3	2
Columbia Greenville	1 0	0	0	o			1 2	1		10	

	Scarle	t fever		Smallp	o x		1	yphoid f	ever	W hoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re-	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated	Cases e- ported	Deaths re- ported	ing cough,	Deaths, all causes
SOUTH ATLANTIC— continued											
Georgia: Atlanta Brunswick Savannah	1 0 0	1	2 0 0	1 0	0	5 1	3 1 2	4	0	2 0	7 3
Florida: Miami St. Petersburg Tampa	1 0 0	0	o	0 0 0	0 9 0	0 0 0	0 0	1 0 1	0 0 1	3 0 0	19 8 25
EAST SOUTH CENTRAL											
Kentucky: Covington Louisville	0	i	0	·····	ō	4	0 5	5	ō	3	72
Tennessee; Memphis Nashville	0	4	0	0 1	0	6 9	77	3	1 1	0 2	70 58
Birmingham _ Mobile Montgomery _	2 0 0	1 0 1	1 0 0	1 0 0	0	4 1 0	5 1 3	14 0 1	2 0 0	3 0 1	64 12
WEST SOUTH CENTRAL											
Arkansas: Fort Smith Little Rock Louisiana:	0	<u>ō</u> -	0	<u>i</u>	0	i	0	0	1	<u>i</u>	-
New Orleans Shreveport Oklahoma:	1 0	3	0	0	0	. 10 . 1	4 1	0	0	1	129 27
Oklahoma City Tulsa,	1 0	0	0	0	0	0	3 5	3 1	0	0	28
Dallas Galveston San Antonio	1 0 1 0	1 0 1 1	1 0 0 0	0 0 2 0	0	2 2 5 5	3 0 2 2	3 0 2 2	0 0 0	1 0 0 0	34 18 45 58
MOUNTAIN Montana: Billings Great Falls Helena	0	0 1 1	0	0	0	0 1 0	0	0 5 0	0	9 0 2	2 10 10
Missoula Idaho: Boise	0	1	0	0	0	0	0	0	0	0	11
Colorado: Denver Pueblo	4	5 5	2	0	0	6	2	0 2	0	4 0	67 8
New Mexico: Albuquerque Utah:	0	0	0	0	0	7	0	3	0	2	
Salt Lake City Nevada:	1	3	1	3	0	1	1	0	0	23	34 3
Reno	0	0	1	0	0	0	1	1	١	١	•
Washington: Seattle Spokane Tacoma	3 1 1	3	2 2 1	2	0	0	0	ō	0	5	24
Oregon: Portland California:	2	2	6	4	0	4	1	0	0	3	86 235
Los Angeles Sacramento San Francisco	7 0 4	6 1 9	1 0	0 1 0	0	21 0 6	4 0 1	5 0 2	0	9 0 6	18 112

	CC	ningo- ecus eingitis	Let	hargic phalitis	Pe	llagra		diomye tile par	
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAND									
Massachusetts:								1	
Boston	0	0	1	-0	1	0	1	3	2
Fall River Springfield	0	0	0	1 0	0	0	Ŏ	. 0	
Rhode Island:	. "	U	U	U	U	0	0	0	1
Providence	-1	0	0	0	0	0	0	0	
MIDDLE ATLANTIC				_	_	_			,
New York									
New York	5	1	3	2	0	0	4	12	1
New Jersey:	_ [1	- 1		- 1			1 1	
Newark Pennsylvania:	1	0	0	0	0	0	. 0	0	0
Philadelphia	0	1	0	0	0	0	0	o	0
EAST NORTH CENTRAL									·
Ohio:		7		-		- 1			
Cincinnati 1	0	0	0	0	0	0	0	2	2
Illinois: Chicago	2		ام		اما	اما			
Michigan:	- 1	1	0	1	0	0	2	4	. 1
Flint	1	0	0	0	0		1	0	
Wisconsin: Milwaukee	3		اہ	اء	ا ا	_	_		
Racine	1	. 0	0	0	0	0	1 0	1 0	0
WEST NORTH CENTRAL	Ì			.	.				
Minnesota:	1		1		ı		l	İ	
Duluth	0	2	0	0	0	0	0 1	0	0
Minneapolis	0	0	0	0	0	0	1	. 0	1
lowa: Waterloo	1	1	0	0-	0	0	o	0	0
Missouri:	- 1	•	١	١	١	•	١	•	v
St. Louis	1	. 0	0	0	0	0	0	0	0
SOUTH ATLANTIC						1	1	1	
Maryland: Baltimore							_	- 1	_
	0	0	0	2	0	0	1	0	0
Norfolk	0	. 0	0	0	0	0	0	1	0
West Virginia:		- 1		_		•	1		
Wheeling	0	0	0	0	0	0	0.	2	0
Wilmington Winston-Salem	0	0	0	0	0	1	0	1	0
	0	0	0	0	2	2	Ö	Ō	0
outh Carolina: Charleston	o	- 0	0	o	2	0	o	0	0
leorgia:	١	١	١	١	-	0	"	ויי	U
Savannah	0	0	0	0	0	1	0	0	0
lorida: Tampa ²	1	1	0	0	0	0	o	0	0
EAST SOUTH CENTRAL									
dabama:		•		- 4		- 1			
Birmingham	0	0	0	0	2	3	0	0	. 0
-	1	7.8		- 1	-	- 1	-	-1	
WEST SOUTH CENTRAL	- 1		- 1	- 1	- 1	- 1	.]	- 1	
rkansas:	- 1		- 1	1	- 1	- 1		1	
Little Rock	0	0	0	0	0	5	0	0	0
ouisiana:	0	0	2	اه	1	2	o	_ [1
New Orleans								1	

¹ Rabies in man: Cincinnati, 1 case; Shreveport, 1 death, ² Typhus fever: Tampa, 2 cases, 1 death.

	Meningo- coccus meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)			
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Death s	
WEST SOUTH CENTRAL—continued										
Oklahoma: Oklahoma City Texas: Dallas	0	0	0	0	0 2	0	0	1	0	
Houston	ŏ	ŏ	ŏ	ŏ	ő	2	ŏ	Ö	0	
MOUNTAIN		·								
Montana: Great Falls Utah:	0	0	0	0	0	0	0	2	1	
Salt Lake City	0	0	0	0	0	0	0	1	0	
PACIFIC			1					İ		
Oregon: Portland California:	1	0	0	0	0	0	0	0	. 0	
Los Angeles Sacramento San Francisco	1 2 0	2 0 1	0 0 1	0	0 0 0	0	. 0 0 0	5 4 3	1 2 0	

Summary of weekly reports from cities, June 26 to July 30, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926 1

DIPHTHERIA CASE RATES

	Week ended—											
	July 3, 1926	July 2, 1927	July 10, 1926	July 9, 1927	July 17, 1926	July 16, 1927	July 24, 1926	July 23, 1927	July 31, 1926	July 30, 1927		
101 cities	² 122	140	102	³ 121	94	4 115	90	193	- 80	4 94		
New England	64	88	57	91	78	132	33	63	40	91		
Middle Atlantic	164	212	120	197	101	165	109	106	103	104		
East North Central	117 125	119 60	106 93	102 38	110 107	93 54	98 95	108 54	83 85	102		
South Atlantic	82	143	65	85	32	83	34	7 87	20	56 8 90		
East South Central	1 22	20	5	41	21	36	10	25	21	2 32		
West South Central	47	122	43	3 52	26	3 73	39	3 129	39	3 73		
Mountain	155	126	118	108	109	108	64	99	91	117		
Pacific	129	76	179	86	158	113	174	65	118	10 121		

MEASLES CASE RATES

101 cities	2 461	272	311	1 190	226	4 155	164	\$ 109	108	6 58
New England Middle Atlantic	318 314	341 201	245 211	299 154	179 129	241 122	108 108	197 92	83 63	169 45
East North Central	739	206	481	182	412	110	279	90	191	47
West North Central South Atlantic	605 432	204 447	417 291	93 277	192 201	105 221	184 127	7 141	93 114	40 8 70
East South Central	2 428 52	82 151	284 47	76 3 116	171 17	61 3 108	124 13	25 3 56	93	² 49 ³ 52
Mountain	437	494	264	135	191	9 251	173	99	128	63
Pacific	458	775	335	539	327	448	212	280	121	10 65

Summary of weekly reports from cities, June 26 to July 30, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926—Continued

SCARLET FEVER CASE RATES

					Week e	nded—				
£.	July 3, 1926	July 2, 1927	July 10, 1926	July 9, 1927	July 17, 1926	July 16, 1927	July 24, 1926	July 23, 1927	July 31, 1926	July 30, 1927
101 cities	* 170	128	127	3 99	94	4 83	82	ĕ 64	73	6
New England	186 188 187 270 65	221 149 132 89 82	158 129 145 206 63	174 123 91 91 54	99 73 119 186 45	130 91 89 71 56	85 75 89 127 35	100 50 75 79 7 41	118 52 84 143 34	1
East South Central West South Central Mountain Pacific	² 66 60 91 150	56 17 208 86	52 34 55 121	46 3 43 117 60	52 52 91 94	31 39 197 50	93 82 64 91	31 3 47 99 92	62 39 36 86	3 1 10
	8	BMALI	POX (CASE I	RATES					
. 101 cities	* 11	18	7	3 16	7	49	6	\$ 10	5	,
New EnglandMiddle AtlanticEast North CentralWest North Central	0 2 10	. 0 0 21	0 0 7	0 0 15	0 1 6	0 0 17	0 0 8	0 0 13	0 0 6	
Bouth Atlantic	26 11 238	38 18 36	28 9 0 4	34 24 51 3 0	26 6 5 13	14 9 25	14 6 10	12 7 12 36 39	2 21	
West South Central Mountain Pacific	21 55 19	13 63 73	9 24	45 73	9 21	• 72 13	13 27 8	117 21	4 9 32	10
	ТYI	HOID	FEVE	R CAS	E RAT	ES	'			
101 cities	2 16	15	13	³ 16	22	4 21	18	19	30	6
New EnglandMiddle Atlantic	12 11 5 10	7 6 5 8	9 7 5 16	14 8 5	12 11 6 14	19 11 8 16	9 9 6 12	16 8 9 14	14 23 10 22	
South Atlantic	35 126 13 27 21	22 132 75 9 16	43 52 30 0 13	34 163 17 18 10	58 165 56 0 21	43 153 3 52 9 36 8	47 134 30 46 8	7 50 122 3 47 27 16	54 243 47 36 11	8 2 1 3 10
	 I	NFLUI	ENZA 1	DEATH	I RAT	es	<u> </u>			
95 cities	26	3	4	11 3	4	3	3	7 3	2	12
Vew England	5 7	5 2 3	7	1 4	0	5 2	2 2	0	0 1	
East North Central	5 8 8 20	2 6 0	7 0 0 16	3 0 2 15	4 0 6 21	1 2 6 5	4 2 4 5 9	2 7 2 15	1 0 2 5	3
Vest South Central Mountain Pacific	13 9 4	4 9 3	0 4	11 0 0 3	9 9 4	18 7	9 9 4	0 9 3	22 0 4	

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, 1926 and 1927, respectively.
¹ Covington, Ky., not included.
² Ft. Smith, Ark., not included.
² Ft. Smith, Ark., and Dever, Colo., not included.
² Norfolk. Va., and Ft. Smith, Ark., not included.
² Norfolk. Va., and Ft. Smith, Ark., not included.
² Greenville, S. C., Brunswick, Ga., Covington, Ky., Ft. Smith, Ark., Seattle, Wash., and Spokane, Wash., not included.
² Norfolk, Va., not included.
² Greenville, S. C., and Brunswick, Ga., not included.
² Greenville, S. C., and Spokane, Wash., not included.
¹ Saattle, Wash., and Spokane, Wash., not included.
¹¹ San Antonio, Tex., not included.
¹¹ Greenvill, S. C., Brunswick, Ga., and Covingtan, Ky., not included.

Summary of weekly reports from cities, June 26 to July 30, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926—Continued

PNEUMONIA DEATH RATES

	Week ended—											
	July 3, 1926	July 2, 1927	July 10, 1926	July 9, 1927	July 17, 1926	July 16, 1927	July 24, 1926	July 23, 1927	July 31, 1926	July 30, 1927		
95 cities	2 75	73	67	11 58	60	57	54	7 56	48	12 49		
New England	. 92	60	54	60	57	56	33	56	33	49		
Middle Atlantic	90 61	71 80	73 65	64 49	74 46	61 45	64 47	59 55	41 47	56		
East North Central	38	77	53	54	36	31	40	21	57	42 17		
South Atlantic	89	57	72	59	55	63	57	7 75	51	8 43		
East South Central	1 121	97	119	82	109	66	98	46	62	2 49		
West South Central	53	73	53	11 86	79	69	53	65	71	86		
Mountain	46	90	36	99	36	197	64	45	55	36		
Pacific	42	69	53	55	46	97	35	72	71	79		

Covington, Ky., not included.
 Norfolk, Va., not included.
 Greenville, S. C., and Brunswick, Ga., not included.
 San Antonio, Tex., not included.
 Greenville, S. C., Brunswick, Ga., and Covington, Ky., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities in each group, approximated as of July 1, 1926 and 1927, respectively

Group of cities	Number of cities	Number of cities	cities repo	opulation of rting cases	Aggregate p	opulation of ting deaths
	reporting cases	reporting deaths	1926	1927	1926	1927
Total. New England. Middle Atlantie. East North Central. West North Central. South Atlantic. East South Central. West South Central. West South Central. Mountain. Pacific.	101 12 10 16 12 21 7 8 9	95 12 10 16 10 20 7	20, 443, 800 2, 211, 000 10, 457, 000 7, 650, 200 2, 585, 500 2, 799, 500 1, 008, 300 1, 213, 800 1, 213, 800 1, 946, 400	30, 966, 700 2, 245, 900 10, 567, 000 7, 810, 600 2, 626, 600 2, 878, 100 1, 023, 500 1, 243, 300 580, 000 1, 991, 700	29, 783, 700 2, 211, 000 10, 457; 000 7, 650, 200 2, 470, 600 2, 757, 700 1, 008, 300 1, 181, 500 1, 475, 300	30, 295, 900 2, 245, 900 10, 567,000 7, 810, 600 2, 510,000 2, 835, 700 1, 023, 560 1, 210, 400 580,000 1, 512, 800

FOREIGN AND INSULAR

CHOLERA ON VESSEL

Steamship "Adrastus"—At Yokohama, Japan—August 6, 1927.— Under date of August 6, 1927, a fatal case of cholera was reported on the British steamship Adrastus at Yokohama, Japan.

PLAGUE ON VESSEL

Steamship "Ransholm"—At Gefle, Sweden, from Rufisque, Senegal—August 5, 1927.—Information received August 9, 1927, shows the arrival, on August 5, of the steamship Ransholm at Gefle, Sweden, from Rufisque, Senegal, via Rotterdam, with three cases of plague among the crew. Plague was reported at Rufisque from May 23 to July 10, 1927.

ARGENTINA

Plague—January 1-June 30, 1927.—During the six months from January 1 to June 30, 1927, plague was reported in Argentina as follows:

Location	Date	Cases	Deaths
Province: Buenos Aires. Cordoba. Corrientes. Entre Rios. Sants Fe. Territory:	Apr. 10-May 7 Jan. 11-Mar. 23 June 1 Mar. 29-Apr. 3 Apr. 28-May 16.	4 50 1 2 4	3 29 1 1 3
Chaco— Barranqueras Formosa City: Rosario Santa Fe	May 29	· 2 3 1 4	2 2 1 2

CANADA

Communicable diseases—Week ended July 23, 1927.—The Canadian Ministry of Health reports cases of certain communicable diseases from six Provinces of Canada for the week ended July 23, 1927, as follows:

Disease	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Alberta	Total
Cerebrospinal fever. Lethargic encephalitis Poliomyelitis. Smallpox		1	1 1 1 26		3	14	2 1 1 43
Typhoid fever	3	30	32				65

Communicable diseases—Quebec—Week ended August 6, 1927.—The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended August 6, 1927, as follows:

Discase	Cases	Disease	Cases
Chicken pox	3 17 1 1 13	Scarlet fever Tuberculosis Typhoid fever Whooping cough	29 13 22 11

Typhoid fever—Montreal—January 2-July 30, 1927.—The following table gives the cases of typhoid fever and deaths from this disease reported at Montreal, Quebec, Canada, since January 1, 1927:

Week ended—	Cases	Deaths	Week ended—	Cases	Deaths
Jan. 8, 1927 Jan. 15, 1927 Jan. 22, 1927 Jan. 29, 1927 Feb. 5, 1927 Feb. 19, 1927 Feb. 19, 1927 Mar. 5, 1927 Mar. 12, 1927 Mar. 19, 1927 Mar. 19, 1927 Mar. 26, 1927 Mar. 19, 1927 Mar. 26, 1927 Mar. 26, 1927 Mar. 19, 1927	4 1 3 1 0 1 1 1 9 203 383 568	1 3 2 1 0 0 2 1 1 4 14 22	July 9, 1927	106 367 770 353 239 128 86 75 66 52	43 23 19 16 26 38 37 36 21 21
Apr. 2, 1927 Apr. 9, 1927 Apr. 16, 1927		48 40 38	July 16, 1927 July 23, 1927 July 30, 1927	39 22 23	9 10

CUBA

Malaria and typhoid fever—Provinces—July 1, 1926-June 30, 1927.—A summary of the cases of malaria and typhoid fever reported from the six Provinces of Cuba for the fiscal year 1926-27 is as follows:

MALARIA

Date	Pinar del Rio	Habana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
July 1-Sept. 30, 1926. Oct. 1-Dec. 31, 1926. Jan. 1-Mar. 31, 1927. Apr. 1-June 30, 1927	77 22 18 26	314 355 206 129	16 34 14 3	16 54 22 10	461 2, 659 1, 374 137	883 2, 538 3, 296 1, 556	1, 767 5, 662 4, 930 1, 861
Total	143	1,004	67	102	4, 631	8, 273	14, 220
	T	TYPHOID	FEVER				
July 1-Sept. 30, 1926	21 23 13 49	324 325 142 277	96 26 17 52	268 87 35 130	103 24 28 26	133 70 78 109	945 555 313 643
Apr. 1-3 une ev, 1821							

GRENADA

Vital statistics—Year 1926.—The number of births registered during the year 1926 was 2,402, as compared with 2,354 for 1925. There were 1,460 deaths registered, an increase of 298 over the previous year. The principal causes of death during 1926 will be found in the table below:

Cause of death	Deaths	Cause of death	Deaths
Brights disease Cerebral hemorrhage, apoplexy Diarrhea and enteritis Dysentery Malaria Other organic diseases of the heart	400 20 84	Old age. Premature birth and diseases of early infancy. Syphills. Tuberculesis (pulmonary). Typhoid fever	89 66

HAWAII TERRITORY

Rodent plague—Hamakua Mill, Hawaii—July 15, 1927.—A case of plague in a rodent was reported at Hamakua Mill, Hawaii, July 15, 1927.

ITALY

· Communicable diseases—1925-1926 (comparative).—Cases of communicable diseases were reported in Italy during the years 1925 and 1926 as follows:

Disease	1925	1926	Disease	1925	1926
Anthrax	2, 383	1, 753	Pellagra.		10:
Cerebrospinal meningitis	581	532	Poliomyelitis	780	388
Chicken pox	9,045	9, 399	Puerperal fever	2, 110	1, 678
Diphtheria and croup	15, 383	14, 923	Rabies:	-,	-,
Dysentery (amebic)	644	522	Dog bites reported	91415	8, 623
Dysentery (bacillary)	2,046	1.742	Dogs found positive for	-7	-,
Influenza	64, 736	184, 409	rabies	163	103
Kala-azar		263	Scarlet fever	16, 733	16, 062
Lethargic encephalitis	681	450	Smallpex	20,100	1 112
Malaria	283, 109	220, 602	Typhoid fever	24, 264	35, 643
Measles	164, 485	98, 158	Whooping cough	23, 756	31, 282
Malta (undulant) fever	1, 439	1, 085	The state of the s	20, 100.	04-0-

¹ Type mild, varioloid included.

Note.-No case of cholera, plague, or yellow fever was reported during the year 1926.

JAPAN

Dysentery—Tokyo, city and district—Yokohama.—Dysentery has been reported in Japan as follows: Tokyo City, June 19 to July 9, 1927, 291 cases with 126 deaths; Tokyo district, exclusive of the city, cases, 443; deaths, 188. Yokohama, June 26-July 9, 1927, cases 11, deaths 3.

LIBERIA

Yellow fever—Monrovia—June 19-25, 1927.—During the week ended June 25, 1927, a fatal case of yellow fever was reported at Monrovia, Liberia, making a total from June 1, 1927, of four cases with four deaths.

MADAGASCAR

Plague—May 16-31, 1927.—During the two weeks ended May 31, 1927, 32 cases of plague with 27 deaths were reported in the Island of Madagascar. The occurrence was in the Provinces of Ambositra, Miarinarivo (Itasy), Moramanga, and Tananarive and was distributed as follows: Ambositra—cases, 7; deaths, 6 (bubonic); Miarinarivo (Itasy)—cases, 2; deaths, 2 (bubonic); Moramanga—cases, 4; deaths, 3 (bubonic 1, septicemic 3); Tananarive—cases 19, deaths, 16 (bubonic 9, pneumonic 8, septicemic 2).

SENEGAL

Plague—Yellow fever—July 20, 1927.—Under date of July 20, 1927, occurrence of plague and yellow fever was reported in Senegal, West Africa, as follows: Plague—Week ended July 17, 1927: Baol region—20 cases, 11 deaths; Dakar—16 cases, 10 deaths; Rufisque—25 cases, 17 deaths; Thies—3 cases, 2 deaths; Tivaouane—38 cases, 28 deaths. Total, 102 cases, 68 deaths. Yellow fever—At Thies, July 10, 1927, one death in a European arrived directly from Tivaouane; at Dakar, in the suburb of Ouakam, July 9, 1927, one suspect case.

TRINIDAD

Deaths, 1926.—During 1926, 8,496 deaths were registered on the Island of Trinidad, giving a death rate of 22 per thousand population.

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

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

Reports Received During Week Ended August 19, 1927 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
China: Swatow India: Rangoon Indo-China (French) Philippine Islands: Leyte Province Barugo Dn vessel: Steamship Adrastus	June 26-July 2 June 19-25 June 11-17 June 29 Reported Aug. 6	5 1 3 1	1 1	At Yokohama, Japan.

PLAGUE

Argentina: Province Buenos Aires	Ans 10-May 7	4	3	
Cordoba	In 11-Mar 23	50	29	
Corrientes	June 1	۳	- TI	
Entre Rios		2	l îl	
Santa Fe	Apr. 28-May 16	4	3	

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

Reports Received During Week Ended August 19, 1927-Continued

PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
Argentina—Continued.		-		
Territory-		ŧ	ŀ	•
Chaco— Barranqueras	May 90	2	2	
Formosa	May 29 June 25	3	2	
City—	June 20		_	
Rosario	May 7	1	1	
Santa Fe	May 16	4	2	
Azores:	7		1	0 22 6
Ribeira Grande	June 12-18	1		9 miles from port.
Kenya	May 29-June 4	7		
Nairobi	May 22-28	6		
Nairobi Tanganyika (Territory)	do	ĭ	1	
Uganda	May 15-June 4	92	67	
Egypt				Week ended July 8, 1927: One case, Jan. 1-July 8, 1927: Cases,
		•	1	case, Jan. 1-July 8, 1927: Cases,
•	ł	l	i	45; corresponding period, 1926—
City—	ļ	1		cases, 100.
Port Said.	July 13	1		Bubonic.
Province—	July 15	-		Dubonic.
Beni-Suef	July 6-13	4	2	Two localities.
Dakhalia	July 6-13 June 25-July 9	6	ī	One locality.
Hawaii:	1	ŀ		•
Hamakua Mill	July 15			1 plague rodent.
India:	7 10 07		١ .	
Rangoon	June 19-25	3	3	*
Iraq: Baghdad	May 1-28	9	l	
Java:	May 1-20	9		
Batavia	June 19-25	16	16	Province.
Batavia East Java and Madura	June 5-18	9	9	
Madagascar				May 16-31, 1927: Cases, 32; deaths, 27. Bubonic, 19;
				deaths, 27. Bubonic, 19;
Province—	35 10 01	_		pneumonic, 8; septicemic, 5.
Ambositra	May 16-31	7 2	6	Bubonic.
Moramanga	da	4	2 3	Do.
Ambositra	do	19	16	Bubonic, 1; septicemic, 3. Bubonic, 9; pneumonic, 8; septicemie, 2. Including Tananarive Town—Cases, 5; deaths, 3.
			10	ticemie. 2. Including Tanana-
			ľ l	rive Town-Cases, 5; deaths, 3.
Senegal Baol Dakar Rufisque	July_11-17			Cases, 102; deaths, 68.
Baol	do	20	11	•
Duffgano	do	16 25	10 17	
Thies	do	3	1,	
Tivaouane	do	38	28	
On vessel:			_	
Steamship Ransholm	Aug. 5	3		At Gefle, Sweden, from Rufis-
	_			que, Senegal.
	SMAL	LPOX		
Canada				
Canada: Alberta	July 17-23	14		
Manitoba—	July 11-23	14		•
Winnineg	July 31-Aug. 6	1		
OntarioOttawa	July 17-23	26		
Ottawa	July 24-30	9		
Saskatchewan	July 17-23. July 24-30. July 17-23. July 24-30.	3	- = =	
Regina	July 24-30	1		
China: Hong Kong	Tuno 10-25	1		
Do	June 19–25 June 26–July 2	2	i	
Manchuria—	Jane 20-July 2			
Manchuria—		3		South Manchurian Railway
Manchuria— Changchun Dairen	July 3–9 June 6–12	3 1	<u>1</u>	South Manchurian Reilway.
Manchuria— Changchun Dairen Harbin	July 3-9 June 6-12 June 20-26	1	1	•
Manchuria— Changchun Dairen Harbin Kai-yuan	July 3-9 June 6-12 June 20-26 July 3-9	1 1 2	1	Do.
Manchuria— Changchun Dairen Harbin Kai-yuan Mukden	July 3-9. June 6-12 June 20-26 July 3-9	1 1 2 2	1	Do. Do.
Manchuria— Changchun Dairen Harbin Kai-yuan	July 3-9. June 6-12 June 20-26 July 3-9	1 1 2	1	Do.

Reports Received During Week Ended August 19, 1927—Continued

SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Great Britain: England and Wales Italy	July 10-16	l 		Year 1926: Cases, 112.
PolandSwitzerland: Berne	May 22-28 June 26-July 2	1		
	TYPHUS	S FEVE	R	
Chile: TalcahuanoValparaisoEgypt:	July 10-16do	2	1	
Alexandria	July 8-15	8		Including municipalities in Federal District.
	YELLOW	FEVE	R	
Liberia: Monrovia	June 19–25	1	1	Total, June 1-25, 1927, cases, 4; deaths, 4.
Senegal: Dakar Thies	July 9 July 10	1	1	In suburb of Ouakam; suspect. In European arrived direct from Tivaouane.

Reports Received from June 25 to August 12, 1927 $^{\scriptscriptstyle 1}$

CHOLERA

Place	Date	Cases	Deaths	Remarks
China:				
Amov	May 22-28	1	1	i
Kulangsu	June 21	1		i
Shanghai	June 19-25	1 2		
Swatow	May 15-June 25	19	8	
India	Apr. 17-June 11			Cases, 48,780; deaths, 28,544.
Bombay	May 8-June 4	2	1	
Calcutta	May 8-June 18	396	247	į ·
Karachi	May 29-June 4	1	1	i
Madras	June 19-25	5	3	
Rangoon	May 8-June 18	14	10	
India, French Settlements in		5	3	
Indo-China (French)	Apr. 1-June 20		I	Cases, 8,998.
Annam	do	1, 147		1, -,
Cambodge	do	197		
Cochin-China	do	1, 049		
Saigon	June 4-10	1	1	
Tonkin	Apr. 1-June 30	6, 605		
Philippine Islands:		-,		
Bulacan Province	June 7	1		At Mambog, Malalos.
Leyte Province—		-		
Carigara	June 23	1	1	Final diagnosis not received.
Palo	May 18	ī	l	
Siam	May 1-June 18	. .		Cases, 138; deaths, 74.
Bangkok.	do	32	11	,,,

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

Reports Received from June 25 to August 12, 1927—Continued PLAGUE

Place	Date	Cases	Deaths	Remarks
Argentina	Jan. 1-June 30			Cases, 71; deaths, 44.
Entre Rios	Reported Aug. 1	1	1	
Formosa	Reported July 6	3		
Pampa	do	2		
Azores: St. Michaels Island	Mon 15 Tune 2	2	ł	1
British East Africa:	May 15-June 3	2		1
Kenya	Apr 24-June 11	11	14	1
Tanganyika	Mar. 29-May 7	ļ	. 36	1
Uganda	Apr. 24-June 11 Mar. 29-May 7 Jan. 1-Feb. 28	138	121	İ
Do	Mar. 27-June 11	174	140	
Canary Islands:		1	1	
Laguna District— Tejina	June 17	1	1	
Ceylon:	June 17	•		1
Colombo	May 1-June 11	13	8	Plague rats, 4.
Egypt	May 1-June 11 May 21-June 24			Cases, 6; deaths, 2.
Alexandria	June 4-10	1		
District—	3.	١.		1
Biba Beni-Souei	do	1		At Nana.
Port Said	June 24	1 2	1	i
Tanta District	June 4-10	1	1	į
Greece	May 1-31	i	1	1
Athens	June 1-30	Î	1	Including Piracus.
Patras	May 30-June 11 Apr. 17-June 11	4		
India	Apr. 17-June 11			Cases, 21,204; deaths, 7,922.
Bombay	May 8-June 25	71	63	
Madras	May 1-June 11	86	33	1
Rangoon	May 8-June 18 Apr. 1-June 20	19	17	
Indo-China (French)	May 21-June 10	21 57		
Iraq:	May 21-June 10	37		
Baghdad	Apr. 8-16	3	1	1
Java:				
Batavia	May 1-June 18	104	105	Province.
East Java and Madura	May 22-June 4	14	14	
Pasocroean Residency	May 9.			Outbreak reported at Ngadi
Surabaya Madagascar	Apr. 17-May 7	24	24	Wone.
wiadagascai				Mar. 16-Apr. 30, 1927: Cases, 256 deaths, 135.
Province—		-	l	ucatis, 160.
Ambositra	Mar. 16-May 15	63	58	
Antisirabe	do	8	8	
Miarinarivo (Itasy)	do	43	43	
Moramanga Tananarive	do	14	.14	
Tananarive Town	do	166 15	145 15	
Peru	AprMay 31	10	15	Cases, 22; deaths, 8.
Departments-	api. may or			Casos, an, consum, c.
Ica	Apr. 1-30	1		
Lambayeque	do	1		
Libertad	Apr. 1-May 31	7	4	
Lima	do	13	4	
Lima City	Apr. 1-30	5	1	G 110 1 11 mg
SenegalBaol	May 23-July 10 June 2-19		i	Cases, 110; deaths, 53.
Cayor Frontier	July 4-10.	4 7	5	
Dakar	June 20-July 10	18	12	
Facel	July 6	r	8	
Guindel	June 20-26	11	8 2	
M'Bour	July 6-10	28	23	
Medina	June 13-19	2	2	
Pout.	July 4-10	1		
Rufisque Thies District	May 23-July 19	79 21	53	
Tivaouane	June 2-July 6	12	41	
Siam	June 2-July 6 Apr. 1-June 11			Cases, 9; deaths, 7
Baugkok	May 8-June 11	2	1	
Cunisia	Apr. 21-May 31	131		
Turkey:		- 1	1	
Constantinople	May 13-19	1		
Union of South Africa:	,	i	1	
Cone Therines			3	·
Cape Province—	35	ام		87-44
Cape Province— Maraisburg District	May 1-14	2	2	Native.
Cape Province—	May 1-14 June 24-30	2 1	2	Native. On Greek warship at port of

Reports Received from June 25 to August 12, 1927—Continued

SMALLPOX

Place	Date	Cases	Deaths	Remarks
Algeria	Apr. 21-June 10			Cases, 333.
Algiers	May 11-June 30	. 8		
Oran	May 21-July 10	32		.]
Brazil: Rio de Janeiro British East Africa:	May 22-June 25	. 5	5	
Kenya	Apr. 24-May 14	7	14	İ
Tanganyika	.∣ Mar. 29-May 7		22	l
Zanzibar	Apr. 1-30	7	2	1
British South Africa: Northern Rhodesia	Apr. 30-June 24	58	l	Native.
Canada	June 5-July 16	36		Cases, 215.
Alberta	June 12-July 16	55		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Calgary	June 12-25	5		
British Columbia—	May 92 90	2		
Vancouver Manitoba	May 23-29 June 5-July 16	2		Cases, 14.
Winnipeg	June 12-July 15 June 5-July 16 June 12-July 23	12		Cases, 14.
Ontario	June 5-July 16			Cases, 111.
Ottawa	June 12-July 23	55		ŕ
Toronto	June 19-July 23	.9		-
Quebec Saskatchewan	Inna 12-Inly 16	13 29		
Regina	July 17-23	i		
Ceylon	June 12-July 16 July 17-23 May 1-7			Cases, 3; deaths, 2.
China:	1			
Amoy	May 8-28	1		Decemb
Chefoo Foochow	May 8-14 May 8-June 11			Present. Do.
Foochow Hong Kong	May 8-June 18	13	14	<i>D</i> 0.
Manchurio		10		
Anshan	May 22-28	1		
Changchun	May 15-June 25	4		
Dairen Fushun	May 2-22 May 15-June 5	6	4	
Harbin	June 13-19	í		
Mukden	May 22-June 25 May 8-June 25	3		
Ssupingkai	May 8-June 25	2		
TientsinChosen	May 8-28 Feb. 1-Apr. 30	11 354	84	
Chinnampo.	Apr. 1-May 31	2	O*4	
Fusan	Apr. 1-30	ĩ		
Gensan	May 1-31 Apr. 1-30	1		
Seishin	Apr. 1-30	1		434
Curacao Egypt	May 29-June 4 May 7-June 17	1		Alastrim. Cases, 17; deaths, 3.
Alexandria	May 21-June 17	4	1	Cases, 17, deaths, 0.
Cairo	Jan. 22-Feb. 11	4		
France	Apr. 1-May 31			Cases, 128.
Paris Gold Coast	May 21-June 30	11 22	2 4	
Great Britain:	Mar. 1-Apr. 30		*	
England and Wales	May 22-July 9			Cases, 1,654.
Bradford	May 29-June 11	2		• •
Cardiff Liverpool	June 19-July 2	4	[•
London	May 15-June 18 June 12-July 2	1 2		
Newcastle on Tyne	June 12-July 2	2		
Sheffield	June 12-July 9	18		
Scotland—	35 00 7 1 0	_	1	
DundeeGuatemala:	May 29-July 2	5		
Guatemala City	June 1-30		9	
Guinea (French)	June 4-10	9		
India	Apr. 17-June 11 May 28-June 25			Cases, 44,336; deaths, 11,199.
Bombay	May 28-June 25	136	99	
Calcutta Karachi	May 8-June 18 May 15-June 25	279	206 5	
Madras	May 15-June 25 May 22-July 2	14	5	
Rangoon India, French Settlements in	May 8-June 18 Mar. 20-May 21 Mar. 21-June 10	125	38	
ndia, French Settlements in	Mar. 20-May 21	145	88	
ndo-China (French) Saigon	Mar. 21-June 10 May 14-20	236	i	
ran:	111dy 17-20	1	* *	
Baghdad	Apr. 10-16	2		
Basra	do	1		

Reports Received from June 25 to August 12, 1927—Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
Italv	Apr. 10-May 21	13		
Jamaica	May 29-June 25	9		Reported as alastrim.
Japan	Apr. 3-May 7	19		
Nagasaki City	June 20-July 10	21	5	
Taiwan Island	May 21-31		l	
Java:	21 011111111	_		
Batavia	May 22-28	1		
East Java and Madura	Apr. 24-30	l ī		
Latvia	Apr. 1-30			
Mexico:	Apr. 1-00	1 -		
Durango	June 1-30	i .	1	
	Apr. 1-June 30			Present.
La Oroya			7	1 lesent.
San Luis Potosi	May 29-July 16 June 1-10			
Tampico				
Morocco.	Apr. 1-May 31	94		
Netherlands India:			1	
Borneo-		l	i	
Holoe Soengei	Apr. 21			Epidemic in two localities.
Pasir Residency	Apr. 30-May 6			Epidemic outbreak.
Samarinda Residency				Do.
Nigeria	Mar. 1-Apr. 30	1,560	351	
Persia:	_	l.		
Teheran	Feb. 21-Apr. 20		5	
Poland	Apr. 19-May 14	6		
Portugal:		l	1	
Lisbon	May 29-July 9	12	1	
Senegal:				
Medina	July 4-10	7		
Siam	May 1-June 18			Cases, 41; deaths, 11.
Bangkok	May 15-June 18	5	3	0 4200, 12, 10412, 20
Spain:	1414 10 vane 10-11	l *	-	
Valencia	May 29-June 4	2		
Straits Settlements	June 12–18	1 3		
Singapore	Apr. 1-May 28	1 4	2	
	Apr. 1-May 20		_	
Sumatra:	T F 11	2		
Medan	June 5-11			
Funisia	Apr. 1-June 10	10		
Tunis	June 1-10	1		
Union of South Africa:		i	1	
Cape Province—		i	1	0-411
Elliott District	May 11-June 10			Outbreaks.
Kalanga District	do			Do.
Transvaal—		l		
Barberton District	May 1-7	l		Do.

TYPHUS FEVER

Algeria					
Algiers	Algeria	Apr. 21-June 10		29	
Oran May 21-June 30. 30 Bulgaria Mar. 1-May 10. 151 Sofia June 4-10. 1 Chile: Concepcion. May 29-June 4. 1 Ligua Mar. 16-31. 2 China: Manchuria- Mukden. May 29-June 4. 1 Chosen. Feb. 1-Apr. 30. Cases, 330; deaths, 30. Chemulpo May 1-31. 4 Gensan do 1 Seoul Apr. 1-May 31. 9 Czechoslovakia Apr. 1-May 31. 9 Egypt May 28-June 17. Cases, 79; deaths, 16. Alexandria May 21-July 1. 8 3 Cairo Jan. 15-21. 1 Estonia Apr. 1-30. Case, 79; deaths, 16. Traction June 1-30. 9 Iraction Baghdad Apr. 24-30. 1 Irish Free State: Cork County July 3-9. 1 In urban district.			24		
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	Irish Free State:		I		
Latvia Apr. 1–May 31 17	Cork County	July 3-9	1		In urban district.
	Latvia	Apr. 1-May 31	17		

Reports Received from June 25 to August 12, 1927—Continued

TYPHUS FEVER-Continued

Place	Date	Cases	Deaths	Remarks	
Lithuania Mexico	Feb. 1-Apr. 30 Feb. 1-28	121	17	Deaths, 26.	
Mexico City	May 29-June 11 Apr. 1-June 10	7 528		Including municipalities in Federal District.	
Palestine	May 24-June 6	2		Cases, 3.	
Mahnaim Safad	May 17-23 May 17-June 20	1 3		In Safad District.	
Peru: Arequipa	Apr. 1-30 Apr. 10-June 4	822	1 80		
Poland Portugal: Lisbon	May 29-June 4	1			
Rumania	Apr. 3-May 14	687 137	47		
TunisaTunis	July 5-11	i			
Turkey: Constantinople Union of South Africa	May 13-19 Apr. 1-30		2	Cases, 55; deaths, 8, native. In	
Cape Province	Apr. 1-June 18	42	5	Europeans, cases, 2. Outbreaks.	
East London Glen Grey District	May 22-28			Do.	
Qumbu District Natal	Apr 1-June 18			Do.	
Impendhle District	June 5-11			Do.	
Transvaal Yugoslavia	Apr. 1-30	1		Cases, 4.	
YELLOW FEVER					
Dahomey (West Africa): Porto Novo	July 1	1	1	In Syrian woman.	
Gold Coast Liberia:	Apr. 1-30	8	5	In officer woman.	
Monrovia Senegal	May 29-July 8 May 27	4	5	Cases, 3.	
M'BourOuakam	May 27-June 19 June 2-8	5 1	5 1		
Tivaouane	May 27-June 8	5	5		