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MOSQUITO CONTROL BY AIRPLANE

MEMOBANDUM ON THE DISTRIBUTION OF PARIS GREEN BY AIRPLANE IN THE CONTROL OF ANOPHELES PRODUCTION IN UNCLEARED POND NEAR BAMBERG, S. C., SEPTEMBER 8, 1927

Owing to the tremendous and rapid development of hydroelectric power and the consequent impounding of water in the South, it has been necessary for the various State boards of health and the malariologists of the United States Public Health Service to give serious attention to the possibility of the use of the airplane in controlling Anopheles production in these areas.

Experience at Quantico, Va., had shown that a mixture of Paris green and powdered soapstone, when applied from an airplane flying over dense vegetation, penetrated the vegetation and reached the surface of the water in doses lethal to anopheline larvæ.

The South Carolina State Board of Health was anxious to have a practical demonstration of the effectiveness of this procedure and offered, for experimental purposes, a heavily overgrown pond near Bamberg, in which dense vegetation, both bushes and trees, shaded almost all of the water surface, flotage was heavy, and the production of *Anopheles quadrimaculatus* was large.

At the request of the Public Health Service and the South Carolina State Board of Health, the Navy Department lent an airplane with Marine Corps fliers.

An abandoned field near the pond was cleared by the citizens of Bamberg for use in landing and loading.

The plane, a Ford transport monoplane, was sent from Anacostia to Quantico, where there was installed a plain metal hopper with a sliding valve opening into a venturi tube below the fuselage. The plane was then flown to Bamberg ready for the demonstration.

The day before the flight the undersigned traversed those portions of the pond where brush was most dense, making hundreds of dippings among the flotage, searching for *Anopheles* larvæ. Larvæ averaged five per dip. Eleven out of every thirteen dips secured larvæ.

On September 8, at 11 a. m., 500 pounds of Paris green, with an equal quantity of soapstone, was distributed by the plane over the 500 acres of pond, the plane making two trips with a 500-pound load per trip. The plane flew about 50 feet above the tops of the trees;

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¹ Public Health Reports, Feb. 18, 1927. (Reprint No. 1140.)

the breeze was very light, the day being nearly calm and clear and bright. The total time of the flight, including landing and reloading, was 1 hour and 30 minutes.

The plane made successive trips across the pond and up and down the pond, gridironing the area with paths approximately an eighth of a mile apart. There seemed to be a fairly even distribution of the dust over the 500 acres of pond.

Immediately prior to the flight a number of visitors entered the pond with dippers and assured themselves of the heavy mosquito breeding. Two hours after the commencement of the flight these visitors reentered the pond and dipped for larvæ in order to observe the earliest effects. In the small clear areas no live larvæ at all were found and many dead ones were picked up. Where trees and bushes covered the water all full-grown larvæ were dead, but some first-stage larvæ were still alive.

On September 9, 22 hours after the dusting flight, the writers went into the pond where the vegetation was densest and the flotage heaviest. Two boats were used, winding about over approximately 12 acres near the lower end of the pond, with the following results:

In all types of flotage 703 dips were made, and there were found three living *Anopheles* larvæ (two first stage and one early second stage), 84 dead *Anopheles* larvæ, and six living pupæ.

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VOLUNTARY REPORTING OF CANCER AIDS MASSACHU-SETTS CANCER STUDIES

Prompted by the fact that the State of Massachusetts had the highest rate of all the States for cancer in 1925, the State legislature, by resolution, in 1926, directed the State department of public health to investigate the cancer situation, not only with respect to the facilities for the institutional care of advanced cases, but also with reference to the incidence of the disease in the State. Preliminary findings were announced, funds for further investigation have been appropriated, a cancer hospital for patients in all stages of the disease, operated by the State, was formally opened at Norfolk, Mass., on

June 21, 1927, and the cancer program of the State department of public health is well under way.

The cancer hospital at Norfolk is the nucleus of a state-wide group of affiliated cancer clinics which are being organized in established hospitals throughout the State wherever professional and material resources are sufficient to maintain them. It is upon these State cancer clinics that will rest chiefly the measures directed toward early recognition and prompt and effective treatment of the disease in the State. From these clinics accurate information for both the public and the physician will be given out in every community in the State, and this information will be supplemented by the State department of public health through proper channels of publicity.

With regard to the study of the incidence of cancer, little was known regarding the prevalence of cancer morbidity in the community at large, and the need for such information was felt at once. The mortality figures and hospital records for cancer are available, but the number recovering from the disease is unknown. The question then arose as to whether cancer should be made reportable with the communicable diseases, and, for reasons presented below, was decided negatively. The matter was presented to the Newton Medical Club in the fall of 1926, together with an outline of the studies being undertaken by the State department of public health, and it was voted that the physicians should voluntarily report cancer cases to the local board of health. Newton, Mass., thus became the first city in the United States to report cancer.

In a recent communication to the Journal of the American Medical Association, Dr. Francis George Curtis, chairman of the board of health of Newton, and Dr. George H. Bigelow, State commissioner of public health of Massachusetts, had the following to say regarding the development of this part of the cancer investigation and the report form used by the physicians of Newton:

In outlining the cancer program of the Massachusetts Department of Public Health the need for cancer morbidity statistics was at once apparent. While mortality figures and hospital records for this disease are available and have been freely studied, little is known regarding cancer morbidity in the community at large. Those who die of cancer can be enumerated, but the numbers who recover from this disease are largely estimated. In an effort to determine the extent of the disease in Massachusetts various mathematical compilations were made, but these are all theoretical and may not even approximate the truth. (Cancer in Massachusetts, Boston M. & S. J. 194:388 (March 4) 1926.)

To offset this lack of knowledge, it has been suggested that cancer be made a reportable disease. In Massachusetts at least, this would be a distinct innovation, since at present all reportable diseases are communicable. As this list numbers 38, one should think well before making it more formidable. Again, much complaint is heard regarding the inadequacy of present reporting. This would hardly be reduced by further burdening the physicians, particularly

with a disease the reports of which would be used primarily for statistical purposes. One factor in the accuracy and adequacy of reporting is the concreteness of the clinical entity—the less defined the more inadequate. This is one reason why our measles morbidity is probably more accurate than our influenza morbidity, for example. Thus, if universal cancer reporting were at all accurate, it would in general be so late as to be little more than a brief anticipation of the death returns; or, if early and unless adequate diagnostic resources were liberally available and liberally used, it would be little more than a recording of early cancer symptoms. Neither of these conditions would advance appreciably our knowledge of the incidence of the disease or of the proportion of cured cases. Thus we have opposed general reporting of cancer for the present.

However, when the physicians of a given community are willing to report voluntarily in an effort to determine the practicability and value of such a procedure it is quite another matter. This has happened in Newton. The whole matter was presented to the Newton Medical Club last fall, and the value of an experimental morbidity reporting area to the studies of cancer being conducted by the State department of public health was outlined. It was voted to report cancer cases to the local board of health, and the president of the club was authorized to appoint a committee to direct this work, of which the chairman of the board was made chairman. Another committee was appointed to organize a cancer clinic in the Newton Hospital in order that diagnostic and treatment facilities might be more generally available. This has been done. The accompanying report form was adopted:

CANCER MORBIDITY R	EPORT FORM
NameSex	Age
Address.	
Civil condition	
Type of disease	
Location of disease	
Date of first symptom.	
Character of first symptom: Pain, lump, abnormal disc	
Date of first consulting physician	
Has any member of patient's family had cancer	
Relationship.	
Has patient ever been in close association with a cancer	patient
Injury at site of cancer	
Operation for cancer—what	
Operation other than for cancer—what	
Does patient use alcohol	
Does patient smoke (pipe, cigar, eigarette)—chew	
Does patient have periodic craving for unusual articles	
What	
Does patient eat little or much salt	
What foods does the patient never eat	
Is patient constipated	
Has patient suffered from chronic disease Wha	# How long
Interval between first symptoms and treatment	X ray Kacnum
Housing.	Economic status.
Number of physicians consulted Number	of irregular practitioners consumed
Possible precancerous condition at site of disease (mole, v	vort leukopiakia, ulcer, uterine tear, curonic
britation from teeth, from corsets, other known chron	nic igrication
	(Physician's signature)
	• • • • • • • • • • • • • • • • • • • •

2. j.	(Address)
n de la companya de l	

In the first seven months of morbidity reporting, 30 cancer cases in residents and 12 cases in nonresidents were reported to the local board of health. During this period there were 29 deaths from cancer among residents, of whom only 5 had been reported, a ratio of 1 to 6. If the same ratio applies to the cancer cases as to the cancer deaths, there were in Newton during this period about 175 cases. This figure is fairly close to the one obtained when an attempt was made to estimate the number of living patients from the cancer mortality records.

It is realized that the response of the Newton physicians has not been as complete as might be desired, but the present indications point to an improvement in this respect. As Newton is the first city in the United States to report its cancer cases, this statement seems advisable, as it indicates a method which might be used in other selected communities to add materially to our knowledge of this pressing problem. Also appreciation should be expressed of the fact that busy practitioners of a community are willing to take on this added obligation.

THE RATIO OF THE SEXES

Based on the accumulated records for the eight years 1917-1924, published by the Bureau of the Census in its Birth, Stillbirth, and Infant Mortality Statistics, the ratio of male to female births in the United States birth registration area is 1.06, or 106 boys born for each 100 girls. The ratio is shown to vary according to the age of the mother, being 1.23 for very young mothers—that is, those under 15 years of age—and 1.055 for mothers 35 to 54 years of age. There are also certain differences in the sex ratio between legitimate and illegitimate children. The ratio in the United States birth registration area for the eight-year period, according to the age of the mother, is as follows:

Age of mother:	Sex ratio (Male to female)	Standard error
Under 15 years	1. 229	± 0.0200
15 to 34 years		± . 0005
35 to 54 years		± .0010
All ages		+ 0004

Commenting on the change in the sex ratio as found among the adult population, the Statistical Bulletin of the Metropolitan Life Insurance Co. for July, 1927, states:

The ratio of the sexes in the actual population may be expected to differ from the ratio at birth. This is because of the operation of two forces, the first being differential mortality of the two sexes, and, second, differential immigration. The death rate is always heavier among males, and this has the effect of bringing down the initial excess of males perceptibly. Immigration, on the other hand, brings in a considerable excess of males over females, and the effect of this factor is to help to restore the initial disparity between the sexes. In the United States the ratio of males to females in the actual white population is 1.040, as contrasted with 1.060 at birth. In a stationary American population—that is, one in which immigration would be eliminated and in which the birth rate and death rate were balanced—the ratio of males to females would be 1.013. In other words, the effect of the higher male mortality would be very nearly to strike a balance between the two sexes.

The following table is given, comparing the sex ratio in the white population of the United States, 1.040, with the ratios for other countries:

Sex ratio	of	population	in	several	countries
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Country	Males per 100 females	Country	Males per 100 female
Great Britain	93. 5	Belgium	98.
Norway Denmark	94.0 94.5	Italy Poland	99. 100.
Sweden	95.3	Greenland	101.
Spain Austria		Japan India	102. 104.
Germany	96.9	Bulgaria	104.
European Russia Switzerland		SerbiaSiberia	106. 106.
Hungary	97.7	Caucasus	111.
France Holland		KoreaAsiatic Russia	113. 117.
Ireland		China	125.

The Statistical Bulletin comments:

In the European countries the sex ratios are almost all below a hundred, which means that there is an excess of females over males. These figures are largely the result of the heavy migration of males and, secondarily, the higher mortality among males. In the Asiatic and in some of the less advanced European countries, the ratios are very heavily in favor of males. In China, for example, the figure is 125 males for 100 females. Undoubtedly this is an exaggerated picture, because there is a tendency among eastern nations to regard the female lightly and this probably results in many escaping enumeration. But even making allowance for this, it is significant how, in these countries, the proportion of surviving males as compared with females rises materially above 100 per cent. In spite of woman's naturally greater resistance to ordinary life hazards, the survival of women is less than that of men, just the reverse of what we observe in our own country and the advanced portions of Europe.

CURRENT WORLD PREVALENCE OF DISEASE

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT ISSUED AUGUST 15, 1927, BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT ²

Cholera.—A serious extension of cholera in western India and across the Persian Gulf in the spring and early summer months of 1927 is reported in the Monthly Epidemiological Report of the health section of the League of Nations' Secretariat for August. The disease had been confined to the drainage basins of the Bay of Bengal and the South and East China Seas during the last two years. The sudden outbreak during March in the districts of Belgaum, Dharvar, and Bijapur in Bombay Presidency, where only sporadic cases occurred in 1925 and 1926, resulted in 10,000 deaths during the 13 weeks between March 20 and June 18, which is more than the annual number reported in the whole Presidency since 1919.

The spread of the disease into the Persian Gulf area is described in the report as follows:

¹ The figures are taken from an article by A. S. Parkes, in the Eugenics Review, vol. 17, p. 285.

From the Office of Statistical Investigations.

The west coast of India is connected with the Persian Gulf by numerous small native craft over which a close sanitary control is most difficult. epidemic in any part of this area is therefore a menace to the surrounding countries. Cholera appeared in the ports of Iraq shortly after the middle of July. Five fatal cases were reported at Basra during the week ended July 23, and 29 cases and 18 deaths during the following week. The disease broke out at the same time at Mohammerah, a Persian port about 20 miles below Basra on the Shat-el-Arab, where 52 cases and 37 deaths were reported during the week ended July 30. At Abadan, still farther down the river, which is an important port for oil exportation, cholera broke out in severe form and 159 cases were reported up to July 31, of which 122 cases, with 103 deaths, occurred during the week ended July 30. The explosive manner in which the outbreak has begun and the high case mortality rate show the gravity of the situation. The area around Shat-el-Arab had been free from cholera since 1923, when there were over 1,100 deaths in Iraq, most of which occurred at Basra, about 1,000 occurring at Abadan.

The total number of deaths from cholera in India the first half of June approximated the 1924 figures, when cholera was last epidemic, but were far below the 1921 level. The incidence of the disease in the current year, however, probably had not reached its maximum at the time of the latest reports. The situation in the endemic centers of Bengal and the Madras Presidency was relatively favorable, and the incidence was lower than a year ago in Assam and Burma. In Bihar and Orissa and in the United Provinces cholera spread rapidly during May and June and was beginning to increase in the Punjab. The deaths in each of the Provinces from March 20 to June 11 are shown in Table 1, by four-week periods, together with corresponding totals for 1926.

Table 1.—Cholera deaths reported in the Provinces of India from March 20 to June 11, 1926 and 1927

•		1926		1927		
Province	Mar. 20- Apr. 17	Apr. 18- May 15	May 16- June 12	Mar. 20- Apr. 16	Apr. 16- May 14	May 15- June 11
Punjab and Delhi United Provinces Bihar and Orissa Bengal Assam Central Provinces Madras Presidency Bombay Presidency States in Bombay Presidency Burma Other Indian States	2 260 2, 269 5, 151 290 112 1, 003 1 0 533	0 354 2,691 2,533 644 137 421 1 0 722 44	2 459 1,762 714 888 205 351 8 0 511	4 130 1,416 2,096 361 383 1,130 4,713 303 228 35	201 1, 885 3, 697 2, 740 261 301 1, 367 3, 821 535 246 85	580 5, 329 7, 457 1, 302 334 1, 517 1, 598 2, 217 435 203 422
Total	9, 622	7, 547	4, 926	10, 799	15, 139	21, 394

Cholera has been prevalent in parts of French Indo-China, though not epidemic to the extent that it was last year except in Tonkin. The maximum incidence seems to have been reached in June, as the cases reported for the first 10 days of July showed a marked decline.

Table 2.—Cases of cholera reported in French Indo-China, March 21 to July 10. 1927

	Mar.		April-	•		Мау			June		July
	21-31	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20	21-30	1-10
Annem	0 50 16 50	0 63 36 157	9 15 51 320	19 12 170 879	94 18 141 884	293 22 178 1, 120	148 25 140 900	256 21 198 1,271	337 21 135 1,074	289 2 180 917	31 36 125 567

There has been no cholera this year to date of report in Japan nor in the Japanese dependencies.¹ There were a few cases of cholera reported at Canton during June and July.

Plague.—The incidence of plague has been unusually low thus far in the current year in nearly all its endemic centers. The only Asiatic ports reporting any cases during July were Bombay, Rangoon, and Bassein. In all of India only 600 cases were reported during the three weeks ended June 18 as compared with 7,594 in the corresponding period of the preceding year.

There were two cases of plague at Beirut, Syria, in July, and three cases at Patras, Greece, in June. In Tunis, where 126 cases of plague occurred in May, the outbreak seemed to have terminated, as only 12 cases were reported between June 1 and 20, and only 1 case in the first 10 days of July.

In the Cossack Republic (Union of Socialist Soviet Russia), where 16 cases of plague were reported in the two weeks ended June 4, there was only one additional case during the next four weeks.

Yellow fever.—In Senegal one case was reported on July 12, at Thies, and one each at Bambey and Khombole on July 27. There was one case at Porto Novo in Dahomey on July 1, but no further case up to July 21. At Monrovia, in Liberia, there were two cases of yellow fever during June.

Smallpex.—Reference is made to outbreaks of virulent smallpox during the first half of 1927 in Algeria, Nigeria, and the Hedjaz with the following comment:

Smallpox of a virulent type was still widespread in June and July in Algeria; 1,404 cases were reported during the first half of 1927.

A severe outbreak of smallpox in Northern Nigeria appears to have reached its maximum in April; 2,502 cases and 584 deaths were reported during the first five months of the year. The proportion of deaths is higher than during the last epidemic in 1925.

Smallpox was prevalent in April and May in the Hedjaz, and cases continued to occur in June and July, although the incidence was much lower; 419 cases and 213 deaths were reported in the four chief towns, Jeddah, Mecca, Medina, and Taif, between March 19 and May 6. There was one smallpox case among Egyptian pilgrims returning through El Tor during the week ended July 20:

I least and I death in Yokohama during the week ended Aug. 6, 1927—Ed.

Enteric fever.—Enteric fever was less prevalent than usual in June in the Scandinavian countries, in Finland, and in the Netherlands. In Germany a seasonal increase during June was evident, but the incidence remained lower than in previous years. In Poland an increase in the disease occurred in May but did not continue into June. In England and Wales, however, the incidence in June and the first half of July was higher than at the corresponding season of the preceding five years, except for 1924. The June incidence was above the normal also in France and Italy.

Enteric fever is reported to be less prevalent in Japan than in preceding years; "10,101 cases of typhoid and 1,032 cases of paratyphoid were reported between January 1 and June 25, as against 17,701 and 1,244 cases, respectively, during the corresponding period of 1926."

Dysentery.—"No unusual prevalence of dysentery in any European country was indicated by the reports received up to the end of July," states the report.

Acute poliomyelitis.—The seasonal rise in poliomyelitis comes in late summer, but in Germany, at the beginning of July, the incidence was higher than at the corresponding season in 1926. There were 87 cases reported in Germany during the four weeks ended July 16 as compared with 57 cases in the corresponding four weeks of 1926. The disease has been more prevalent than in 1926 also in the United States.

There were no serious outbreaks of poliomyelitis in countries of the Southern Hemisphere during the past autumn.

Scarlet fever.—"The seasonal movement of scarlet fever in the western half of Europe has, on the whole, become less pronounced and regular in recent years," states the report. "In England and Wales, the incidence increased by about 25 per cent in June and July as compared with March and April. In the Irish Free State more than twice as many cases were reported in June as in March. There was also a slight increase in May and June in Italy, France, and the Netherlands. In Germany the incidence remained practically at the same level from April to the end of June, but was about twice as high as in 1925 and 1926 and three times as high as in 1923 and 1924 for the corresponding period. There was a small outbreak in June in Greece, causing 30 deaths."

Vincent's angina.—Through the Australian Health Service the health section of the League was informed "that an epidemic of Vincent's angina followed by severe broncho-pneumonia was reported in June from Rabaul in the New Britain Mandated Territory (north of New Guinea). There were many deaths in distant isolated areas."

Epidemic diseases in China.—Information on epidemic diseases in China received from the National Epidemic Prevention Bureau indi-

cated that in February plague was prevalent in Fukien Province and absent from the other Provinces (no report from Kwangsi and Shensi); cholera was reported sporadic in Kwantung and Shantung Provinces; and smallpox was reported epidemic in Hanan and Szechuan Provinces and prevalent or sporadic in all others reporting except Kiangsi and Yunnan.

COURT DECISIONS RELATING TO PUBLIC HEALTH

Law for eradication of bovine tuberculosis upheld.—(Iowa Supreme Court; Lausen v. Board of Supervisors of Harrison County et al., 214 N. W. 682; decided July 1, 1927.) The plaintiff, a resident of Harrison County and the owner of farm land in the county and also the owner of certain breeding cattle, brought an action to restrain the defendant county board of supervisors from putting into operation the provisions of the law relating to the county-area plan for the eradication of bovine tuberculosis. He contended that certain sections of the law were violative, for various reasons, of provisions of the State and Federal constitutions. The trial court dismissed the plaintiff's petition and this action was affirmed by the supreme court, which stated that it was unable to see where any constitutional provision had been impinged or violated by the sections attacked.

Creation of water district and assessments against property therein upheld.—(Kentucky Court of Appeals; Ryan v. Commissioners of Water District No. 1 of Kenton County et al., 295 S. W. 1023; decided June 24, 1927.) In an equitable action to test the validity of the organization of a water district under the provisions of chapter 139, acts of 1926, the plaintiff contended that notice by publication, as provided in the act, of the filing of the petition for the creation of the water district, of the time of hearing on the assessment roll, and of the time of hearing upon the final report before the county court, was not due process of law. The court of appeals first decided that the legislature had power to authorize the creation of such districts, and then held that notice by publication, as provided for by the law, was due process of law. The court also held that, the necessary notices having been published and the plaintiff having taken no step manifesting objection to any of the proceedings in the county court, he had waived his right to call in question the validity of the assessments. The authority to issue bonds, given by the act to the commissioners of the district, was also upheld by the court.

PUBLIC HEALTH ENGINEERING ABSTRACTS

Sewage Disposal in 1927. J. D. Watson. Surveyor, vol. 72, No. 1849, July 1, 1927, pp. 5-7. (Abstract by R. E. Thompson.)

A general discussion of sewage disposal, with special reference to English practice. Land irrigation is probably the soundest method of purification where soil and subsoil conditions are suitable and the volume of sewage to be treated is well within the purifying capacity of the area available—1 acre per 100 contributing population. Contact beds are not considered either a sound or economical method of freeing sewage from its tendency to putrefy. Percolating filters are popular, and deservedly so. The initial cost is higher than for an activated sludge plant, but maintenance and operating costs are lower. Compared with an activated sludge plant, a percolating filter installation may be called "foolproof," and its bacterial population is wonderfully adaptable to varying conditions, including change of temperature and character of sewage to be treated. The activated sludge process is not as popular as it was, probably as a result of "the untoward zeal of some of its advocates and their belated consciousness of its limitations." It has been proved to be scientifically sound and its suitability for certain kinds of work is unchallenged, but it is not suitable for the treatment of all kinds of sewage, nor is it economically adaptable to all situations. Its successful application requires more knowledge and skillful management and it is not, generally speaking, as reliable under all circumstances as the older and better-tried methods. Lagooning is the most popular method of sludge disposal. The Imhoff tank has not found favor in England.

The Wet Kata-Thermometer as an Index of the Suitability of Atmospheric Conditions for Heavy Work. H. M. Vernon. Journal Industrial Hygiene, vol. 9, No. 7, July, 1927, pp. 287-296. (Abstract by Leonard Greenburg.)

This paper is based largely on studies made by the author and two other investigators, T. Bedford and C. G. Warner, on the working capacity of coalminers in relation to the wet kata cooling power. Observations were made of the duration of rest pauses and the time required to fill mine tubs. It was found that with a decrease in the mean wet kata cooling power from 18.6 to 6.4, the working time fell from 52.7 minutes per hour to 37.6 minutes per hour, with a corresponding tub-filling time increasing from 8.0 to 9.6 minutes and a consequent rate of production decreasing from 100 to 59. The effective temperature was found to increase from 65.8 to 81.2 under these conditions.

Comparing the rate of production with the wet kata-thermometer observations it appears that the fall in production was 41 per cent, with a decrease in cooling power of 12.2 units, whereas when the effective temperature is reclassified and compared with the rate of production one observes a fall of only 10 to 15 per cent with a change of 19.2° in effective temperature. By further analysis of the studies at high and low velocity air currents the author arrives at the conclusion that the effective temperature considerably underestimates the importance of air velocity, whereas the wet kata cooling power underestimates it to a somewhat lesser extent.

The author presents a table taken from one of Yagloglou's publications which shows the relation between effective temperature and rectal temperature. In this table the data relate to four groups of effective temperatures and in each group this effective temperature has been obtained by the use of various dry bulb temperatures in combination with relative humidities from 5 to 100 per cent. The proportional rise in rectal temperature at various relative humidity percentages is shown. From these data it appears that when the relative humidity is low and the effective temperature varies from 95° to 106.4°, the rectal temperature does not apparently increase as much as it does when the same effective temperature is obtained by the use of higher wet-bulb temperatures. It would appear from this, according to the author, that the effective temperature scale does not give proper significance to the factor of the wet-bulb temperature.

Ventilation Standards. W. J. McConnell. American Journal of Public Health, vol. 17, No. 3, March, 1927, pp. 251-253. (Abstract by Leonard Greenburg.)

The object of this paper is to emphasize the need for determining adequate standards by which to evaluate atmospheric conditions as they affect the human body. The author points out the necessity for the consideration of the three essential factors—dry-bulb temperature, wet-bulb temperature, and air motion. The experiments conducted by the United States Bureau of Mines, the United States Public Health Service, and the American Society of Heating and Ventilating Engineers, in a cooperative study at Pittsburgh, are cited as taking into consideration all of these three factors. No single instrument exists which records these three factors, but the resulting influence may be obtained from a scale known as the effective temperature scale.

For school children, the New York State Commission on Ventilation found 66°-68° F., with moderate relative humidity and moderate air movement, to be optimum, while for men at work the figures given by the National Research Council are about 71°-72°, relative humidity 40-50 per cent, and for women the optimum is probably 7°-8° higher. Finally, it may be pointed out that optimum conditions for different persons may, in general, be between 63° and 71° effective temperature, and for most persons normally clothed and at rest in mild weather is 66° effective temperature. The author raises the question as to whether a single optimum condition should be maintained, as contrasted with a varying condition in order to escape monotony. He finally closes by pointing out the nature of the experiments remaining to be performed in order to elucidate these questions.

Temperature, Humidity, and Air Movement in Industries: The Effective Temperature Index. C. P. Yagloglou. *Journal of Industrial Hygiene*, vol. 9, No. 7, July, 1927, pp. 297–309. (Abstract by Leonard Greenburg.)

This contribution presents a review of much of the work which has been done on the effective temperature index both at the laboratory of the Bureau of Mines and at the Harvard School of Public Health. All of the data have been taken from previous publications and show the relationship between dry-bulb temperature, wet-bulb temperature, and air motion, and the resulting effective temperature produced by the combination of these three conditions. It is pointed out that the comfort zone based on effective temperature takes account of diurnal and seasonal acclimatization. For normally clothed subjects it is held that the lower region of the comfort zone is 62.3° and probably the highest region is 80°.

Considerable space is devoted to a discussion of physiologic reactions and their relation to effective temperature. In all probability the rectal temperature and pulse rate yield the best correlations with effective temperature. Data are presented which seem to indicate that there exists a satisfactory relation between effective temperature and physiologic responses, both at rest and at hard work.

The decrease of work output under various conditions of effective temperature is strikingly shown, as is also the effect of air motion on output. A dry-bulb temperature of 90° to 100° and air movement of 350 feet a minute increases the output approximately 70 per cent when the work is based on equal increases in pulse rate and, roughly, 30 per cent when based on equal rise in rectal temperature.

The Respective Per Capita Space Requirements for Window and Mechanical Ventilation. C.-E. A. Winslow. Journal of the American Society of Heating and Ventilating Engineers, vol. 33, No. 5, May, 1927, p. 326. (Abstract by Leonard Greenburg.)

This brief note is a written discussion of a paper originally appearing in the March, 1927, issue of the Journal of the American Society of Heating and Ventilating Engineers. In this discussion Professor Winslow points out that the authors of several papers have recently assumed that mechanical ventilation may be conducted efficiently with a per capita space of 200 cubic feet per pupil or less,

while they continue to assume that window ventilation requires 300 cubic feet or more. It is pointed out that the basis for this discrimination is a sentence in the report of the New York State Commission on Ventilation which says that in the window gravity ventilation studies 250 cubic feet per second-grade child and 310 cubic feet per sixth-grade child was used. This is a true statement, but it is to be remembered that for all practical purposes the fan-ventilated rooms had space allowances of approximately the same value. It is further pointed out that in certain cases the fan-ventilated schools had larger space allowances (chs. 19 and 23). The author concludes that there is not the slightest basis in the work of the New York State Commission on Ventilation for the assumption that window-ventilated rooms must be designed with more cubic space per pupil than fan-ventilated rooms.

Experimental Bacterial and Chemical Pollution of Wells via Ground Water, and the Factors Involved. C. W. Stiles, H. R. Crohurst, and Gordon E. Thomson. Hygienic Laboratory Bulletin No. 147, U. S. Public Health Service. 168 pages. (Abstract by H. R. Crohurst.)

In this publication there are assembled the results of nearly three years of experimental study of the artificial contamination of ground water, bacterially by sewage organisms and chemically with the dye (uranin), in the vicinity of Fort Caswell, N. C. The data presented include the geology and hydrology of the experimental area, the types of experimental wells and pits used, meteorological observations, ground-water elevations, detailed results of the spread of pollution by the aid of tables and diagrams, and the technique employed in conducting the investigation.

Briefly summarized, the results of the study are as follows: (1) The soil and ground water at the experimental plot were free from B. coli contamination prior to the artificial dosing of pits and ground water; (2) B. coli was recovered from the ground water in 1,213 samples taken under the most rigid technique at distances varying from 1 to 232 feet away from experimental trenches into which uranin and excreta pollution were placed; chemical pollution (uranin) was recovered from experimental wells up to 450 feet from the same trenches: (3) both uranin and B. coli traveled in only one direction, namely, in the direction of ground-water flow, and did not appear to expand laterally (in a fan shape) with the trench as the apex of a section of a truncated cone, but, on the contrary, it appeared to contract to narrower breadths, with the trench representing the base of a truncated section of a cone; (4) B. coli tends to localize in the upper blanket at or near the ground-water table, and water samples in a given well from this blanket may show heavy B. coli pollution, while water a few inches lower may be free from B. coli; (5) when the ground water falls, B. coli tends to filter out into the capillary fringe or (in case of still further fall) into the soil, and if the soil remains dry sufficiently long, B. coli dies. Wet weather (with high ground water) is, therefore, conducive to the extension of pollution; dry weather (resulting in the lowering of the ground water) is inhibitive to the extension of pollution and conducive to purification of the ground water; (6) chemical pollution (uranin) appeared to float out in a blanket at or parallel with and close to the groundwater table and tends to filter out (upon fall of the ground water) into the capillary fringe and soil, but does not seem always to rise with higher ground water; (7) experimental B. coli infection of the ground water remained alive for two years and eight months at the date of last examination (June 18, 1925), and uranin remained visible in the ground water for two years and seven months when last examined (June 5, 1925); (8) the changes of the ground-water elevations appear to be very complex and of at least four kinds: (a) Upward trend of the groundwater table more or less generally attributed to hydraulic pressure from some point upstream; (b) the superposition of new ground water by transit from surface water downward to an old ground-water table; (c) a new ground-water table due to a flow of new water from upstream over a former ground-water table;

and (d) a wave flow from upstream over a former ground-water table. These movements seem to play an important rôle in the progression of the pollution, carrying the bacteria along to more distant points.

Prevention of Phenol Taste with Ammonia. J. W. McAmis. Journal American Water Works Association, vol. 17, No. 3, March, 1927, pp. 341-350. (Abstract by M. S. Foreman.)

The water supply of Greenville, Tenn., is obtained from a limestone spring which issues from under a limestone ledge near the center of the city. quite evident that most of the water flows underground for a considerable distance, and in so doing is subjected to almost every kind of contamination. In 1912, when chlorination was resorted to, obnoxious tastes and odors appeared. The objectionable taste was similar to the iodoform taste that is noted in Ohio Consumers objected so strenuously to the taste that a close study was made. Blue-green algæ was eliminated as a factor in taste pro-Covers were built for both springs and standpipes, and copper sulphate was added; still the taste persisted. Tests for phenol gave very doubtful reactions and, consequently, were discontinued. taste practically disappeared in the spring and winter, it was thought that high temperatures emphasized the taste. Due to the system of operation of the plant this could not be confirmed. Double chlorination entirely eliminated the taste in laboratory samples, but it failed when applied on plant scale. Prechlorination likewise failed to eliminate the odor.

Sir Alexander Houston, director of the Metropolitan Water Board, described the successful work of Adams, in which ammonia was used. This treatment was begun in Greenville in 1926 and has been highly satisfactory from the start. The ammonia is applied by first preparing a known strength in a solution tank and adding it just ahead of the coagulating chemicals. Houston states that in the laboratory a dose of 0.2 p. p. m. of ammonia as nitrogen appears to be sufficient in all cases. The ammonia treatment, besides being very successful in eliminating phenolic tastes, is very inexpensive. The cost, at prices now quoted on ammonia, would be \$0.60 per million gallons of water treated.

Simple Method for Estimating the Available Chlorine in Bleaching Powder. B. B. Brahmachari. *The Indian Medical Gazette*, vol. 62, No. 5, May, 1927, pp. 251-252. (Abstract by E. J. Theriault.)

A field method for the estimation of available chlorine in hypochlorites is described. An emulsion of the bleaching powder is prepared such that 1 c. c. = 1 mg. of bleaching powder. Varying amounts of this emulsion (0.3 c. c., 0.4 c. c., etc.) are then added to a series of tubes containing some water and a constant amount (1 c. c.) of arsenious oxide reagent (1 c. c. = 1.39 mg. $As_2O_3=1$ mg. Cl_2).

"Excess of available chlorine over that used up in the reactions for oxidation of the arsenious acid will be shown by the formation of blue iodide of starch. The result may be interpreted from the following table:

Least quantity of		e chlorine sample
bleaching powder emulsion giving a blue color	Less than—	More than—
C. c. 3 4 5 .6 8	Per cent 33 25 20 16½ 12	Per cent 33 25 20 161/2 121/2 10

"If not blue even with 10 c. c. of the emulsion, the powder has less than 10 per cent of available chlorine. If the available chlorine is 25 per cent or over, the bleaching powder is of satisfactory quality."

Practical Swimming Pool Sanitation Control. W. H. Cary, jr. The Nation's Health, vol. 9, No. 5, May 15, 1927, pp. 16-20. (Abstract by L. M. Fisher.)

Detroit's 37 pools represent all types, from old fill and draw to modernly equipped pools with recirculating pumps, hair strainers, sand filters, and sterilization. Only two are outdoor pools.

Inspections are made every second and third day and water samples taken. Bacterial standards are: (1) A median monthly total count of not over 2,000 per c. c.; (2) not over 50 per cent of samples in any month shall show presence of B. coli; (3) not over 20 per cent of samples in a given month shall show a colon count of over 10 per 100 c. c.

The publication of the standing of the pools has been an incentive to meet the requirements.

It does not require modern equipment to stand well upon the list as to sanitation. The personnel has much to do with results obtained. Good cooperation is obtained from those in charge of the swimming pools.

A Search for Pathogenic Bacteria in Swimming Pools. William Royal Stokes. American Journal of Public Health, vol. 17, No. 4, April, 1927, p. 334. (Abstract by Chester Cohen.)

The possibility of a swimming pool acting as a medium for the transmission of such diseases as typhoid fever, gonorrhea, syphilis, ringworm, dysentery, colds, conjunctivitis, and boils, is mentioned. It is the opinion of a number of physicians that the swimming pool may also serve to transmit various eye, ear, nose, throat, and skin infections, in addition to such diseases as influenza, tuberculosis, lobar pneumonia, and rheumatism. The two principal factors considered in the transmission of diseases are the polluted water and certain articles of pool equipment (suits, towels, etc.), and the lessening of resistance through prolonged chilling of the body, diving, and other enervating influences.

Few investigators have been able to isolate pollutional forms from swimming pool water. The author has recorded the results of his laboratory examinations of samples of water from 14 swimming pools—an attempt to culture, on blood agar plates and eosinate of methylene blue agar plates, pathogenic bacteria in the pool water. These tests cover a period of months and include both indoor and outdoor swimming pools. Although 500 colonies were studied in pure culture, the only pathogenic organisms obtained were Staphylococcus albus. Although the investigation does not strengthen the theory of the transmission of infectious diseases by means of pathogenic bacteria in the swimming pool, not enough tests have been made to render such a theory untenable.

Swimming Bath Conjunctivitis. Charles A. Bahn. New Orleans Medical and Surgical Journal, vol. 79, No. 8, February, 1927, pp. 586-590. (Abstract by C. T. Butterfield.)

The history of 36 cases of conjunctivitis treated by the author and his associate is reviewed. The author believes that these infections were contracted in swimming pools and that the infectious material is probably either human epithelium or urine with the attendant bacteria. The bacteriological studies made were uniformly negative. Two methods of treatment of the disease, with the results, are discussed. An outline of the suggestions for the sanitary control of pools is given as follows: (1) Require thorough preliminary scrub and shower; (2) instruct against overcrowding and urinating while bathing; (3) provide a minimum of 15 gallons of water per bather; (4) use chlorine at rate of 1 mg. per liter; (5) scrub tanks once or twice daily.

DEATHS DURING WEEK ENDED SEPTEMBER 10, 1927

Summary of information received by telegraph from industrial insurance companies for week ended September 10, 1927, and corresponding week of 1926. (From the Weekly Health Index, September 14, 1927, issued by the Bureau of the Census, Donardment of Commerce)

Беринтен ој Соттенсе)	Week ended Sept. 10, 1927	Corresponding week 1926
Policies in force	66, 236, 685	65, 263, 862
Number of death claims		10, 135
Death claims per 1.000 policies in force, annual rate.	7. 3	8. 1

Deaths from all causes in certain large cities of the United States during the week ended September 10, 1927, infant mortality, annual death rate, and comparison with corresponding week of 1926. (From the Weekly Health Index, September 14, 1927, issued by the Bureau of the Census, Department of Commerce)

		ded Sept. 1927	Annual death rate per	Death 1 y	s under car	Infant mortality rate.
City	Total deaths	Death rate 1	1,000 corre- sponding week 1926	Week ended Sept. 10, 1927	Corresponding week 1926	week ended Sept. 10, 1927 ²
Total (66 cities)	6, 389	11.3	3 10. 2	725	3 764	4 58
Akron	34			1	11	11
Albany 5	41	17.8	15. 3	4	2	83
Atlanta	67			8	13	
White	33			5	8	
Colored	34	(6)		3	5	
Baltimore 5	188	12.0	12. 2	16	24	49
White	142		10.8	12	17	46
Colored	46	(6) 17. 2	20.2	4	7	62
Birmingham	71	17. 2	14.6	6	4	
White	30		11.4	2	3	
Colored	41	(6)	19.5	4	1	
Boston	208	13.7	10.8	31	30	87
Bridgeport	26		1	,1	2	19
Buffalo	131	12.4	11.9	15	24	63
Cambridge	22	9.3	5.6 11.9	6	17	107
Camden	25	9.8 9.7	7.6		6	52 24
Canton	21		8.7	79	85	68
Chicago 5	702	11. 8 19. 5	14.8	26	29	162
Cincinnati	154	9.2	7.8	19	23	50
Cleveland	173	10.6	11.5	4	20	37
Columbus	59 48	12.0	11.0	8	7	31
Dallas	34	12.0	9.2	7	4	
Colored	14	(6)	23.2	i	3	
Dayton	44	12.7	13.6	7	6	115
Denver	91	16.4	12.8	13	. 6	110
Des Moines	27	9.4	7.9	ĭ	ı ă	17
Detroit	260	10. 2	10.6	46	43	73
Duluth	17	7.7	6.0	ĩ	3	22
El Paso	30	13.7	12.9	12	5	
Erie	32	20		72	2	39
Fall River 5	24	9. 4	13.9	3	2	53
Flint	25	9. 1	6.9	4	5	65
Fort Worth	31	9.9	10.5	6	5	
White	21		8.9	3	3	
Colored	10	(6)	22.0	3	2	
Grand Rapids	32	10.5	8.7	5	4	73
Houston	41			7	7 !	
White	26			6	6	
Colored	15	(6)		1	1	
Indianapolis	86	12.0	8.0	7	6	55
White	73		7.3	5	4	. 45
Colored	13	(9)	13.0	2	2	122
Jersey City	50	8.1	7.4	6	9	45
Kansas City, Kans	26	11.6	10.3	2	2	39
White	20		6.5	0	2	0 304
Colored	6	(6)	28.0	2	0)	304

¹ Annual rate per 1,000 population.
² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
³ Data for 65 cities.

⁴ Data for 61 cities.

Data for of cities.

Deaths for week ended Friday, Sept. 9, 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, 28; Richmond, 32; and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended September 10, 1927, infant mortality, annual death rate, and comparison with corresponding week of 1926—Continued

	Week en 10,	ded Sept. 1927	Annual death rate per		s under æar	Infant mortality
City	Total deaths	Death rate	1,000 corre- sponding week 1926	Week ended Sept. 10, 1927	Corresponding week 1926	rate, week ended Sept. 10, 1927
Kansas City, Mo	77	10. 5	9.0	6	8	
Knoxville	29 20	14.8		3 2		
Colored	9	(6)		1		
Los Angeles	175			9	11	29
White	83 64	13. 5	12.7 10.5	5 5	6 4	43 49
Colored	19	(6)	25. 5	0 :	2 5	0
Lowell	26 18	12.3 8.9	9.9 9.5	3 1	5 1	58 26
Memphis	60	17. 5	18.3	3	6	20
White	30		14.6	2	3	
Milwaukee	30 135	(6) 13. 3	24. 8 10. 4	1 13	3 15	
Minneapolis	75	8.8	7.1	9	3	61 51
Nashville 5	53	20.0	17. 5	7	9	-
Colored	33 20	(6)	18. 1 16. 0	6	9 :	
New Regiond	23 23	`10.0	9.6	3	2	52
New Haven	23 139	6.5	7. 2	2	1	28
White	139	17. 1	15. 9 11. 9	15	15 ·	
White Colored	59	(6)	27.3	8	8	
New YorkBronx Borough	1, 174	10.3	10. 1	129	146	53
Brooklyn Borough	144 421	8. 1 9. 7	8. 5 9. 1	15 45	11 71	48 47
Manhattan Borough	465	13. 4	13. 4	60	56	70
Queens Borough Richmond Borough	107 37	6. 9 13. 1	5. 5	7	7	30
Newark, N. J.	102	11.4	7. 7	10	1 7	37 50
Oakland	41	8.0	8.2	8	5	94
Oklahoma City	39 56	13. 3	11.1	3 6	6 .	67
Paterson	30	10.9	9.1	3	1	53
Philadelphia	392	10.0	10. 3	43	48	57
Pittsburgh Portland, Oreg	125 54	10. 1	9. 5	22 3	20 5	77 32
Providence	43	8.0	8.7	3	5	25
Richmond	54 26	14.7	12. 4 9. 3	9	8	119
Colored	28	(6)	19. 9	7	8	40 266
lochester	65	10.5	9.4	8	8	67
t. Louist. Paul	178 47	11. 1 9. 8	10. 4 9. 9	15	16	
alt Lake City	26	10.0	12.9	4 3 2 1	3	36 46
an Antonio	36	8.9	14. 2	2	11 -	
an Diegoan Francisco	31 140	14. 1 12. 7	13. 3 11. 3	1	0 5	21 12
chenectady	16	9.0	8.4	3 2	. 3	90
eattleomerville	64 _			2	5	21
nokana	26 42	13. 3 20. 1	6. 3 13. 4	6	2 2	217
pringfield, Massyracuse	35	12.4	9. 7	5	4	25 77
yracuse'oledo	41 73	10.9	8.7	1	6	13
renton	36	12. 5 13. 7	12. 7 10. 1	10	8 2	. 174
Vashington, D. C	114	11.0	9. 7	13	12	75
Colored	77 37	(6)	8. 5 13. 3	8	7	68
Vaterbury	17	(7)	10.0	5	5	92 24
VaterburyVilmington, DelVorcester	26	10.8	8.0	0	2 4	0
onkers	37 24	9. 9 10. 5	11. 3 8. 1	3 1	4	36
oungstown	52	16.0	9.5	4	4	23 56

Deaths for week ended Friday, Sept. 9, 1927.

In the cities for which deaths are shown by color, the colored population in 1929 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; Knovville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 28; 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 September 17, 1927

DIPHTHERIA		DIPHTHERIA—continued	_
	Cases		Cases
Alabama	64	West Virginia	19
Arizona		Wisconsin	
Arkansas	5	Wyoming	2
California			
Colorado	26	INFLUENZA	
Connecticut	14	Alabama	16
Florida	21	Arkansas	9
Georgia	45	California	10
Idaho	1	Connecticut	1
Illinois	55	Georgia	17
Indiana	11	Illinois	7
Iowa 1	23	Indiana	8
Kansas	29	Kansas	1
Louisiana	21	Louisiana	4
Maine	3	Maryland 1	5
Maryland 1	35	Massachusetts	9
Massachusetts	62	Missouri	2
Michigan	45	New Jersey	2
Minnesota	40	Oklahoma 3	12
Mississippi	29	Oregon	14
Missouri	52	South Carolina	156
Montana	3	Tennessee	9
Nebraska	4	Texas	2
New Jersey	52	Utah 1	2
New Mexico	8	West Virginia	2
New York 2	61	Wisconsin	43
North Carolina	101		
Okláhoma 3	57	Measles	
Oregon	2	Alabama	22
Pennsylvania	120	Arizona	4
Rhode Island	5	Arkansas	5
South Carolina	53	California	31
Tennessee	19	Colorado	1
Texas.	46	Connecticut	4
Utah 1	5	Florida	. 4
Vermont	1	Georgia	2
Washington	10	Idaho	3
		Illinois	16
1 Week anded Prider			

- ¹ Week ended Friday.
- ² Exclusive of New York City
- * Exclusive of Oklahoma City and Tulsa.
- ¹ Week ended Friday.
- * Exclusive of Oklahoma City and Tulsa.

(2354)

measles—continued	Cases		Cases
Indiana			
Iowa 1			
Kansas			
Louisiana		Nebraska	
Maine		New Jersey	
Maryland 1		New Mexico	. 11
Massachusetts		New York 2	39
Michigan		North Carolina	
Minnesota		Ohio	
Missouri		Oklahoma 3	
Montana	3	Oregon.	
Nebraska	1	Pennsylvania	48
New Jersey	3	Rhode Island	4
New Mexico	4	South Carolina	2
New York 3	12	South Dakota	5
North Carolina	150	Tennessee	2
Oklahoma 3	5	Texas	16
Oregon	13	Utah 1	6
Pennsylvania	51	Washington	15
South Carolina	56	West Virginia	13
South Dakota	2	Wisconsin	15
Tennessee		SCARLET FEVER	
Texas	2	Alabama	23
Utah 1	1	Arkansas	9
Washington	14	California.	77
West Virginia	12	Colorado	10
Wisconsin	81	Connecticut	16
MENINGOCOCCUS MENINGITIS		Delaware	3
		Florida	8
Arizona	4	Georgia	28
California	.4	Idaho	2
Florida	1	Illinois	97
Illinois	4	Indiana	27
Louisiana	1	Iowa 1	8
Maryland 1	2	Kansas	21
Massachusetts	2	Louisiana	2
Minnesota	1	Maine	10
Missouri	2	Maryland 1	14
Montana	3	Massachusetts	102
New Jersey	1	Michigan	75
New Mexico	1	Minnesota	64
North Carolina	1	Mississippi	16
Oklahoma 3	2	Missouri	23
Oregon Pannsylvania	1 2	Montana	3
Pennsylvania Tennessee		Nebraska	13
Washington	2	New Jersey	48
Wisconsin	3 2	New Mexico	7
TT BOOLISH	- 1	New York ?	62
POLIOMYELITIS	l	North Carolina	73
Alabama	1	Oklahoma 3	22
Arizona	7	Oregon	7
Arkansas	3	Pennsylvania	118
California	66	Rhode Island	17
Colorado	2	South Carolina	25
Connecticut	19	South Dakota	7
Florida	1	Tennessee	34
Illinois	36	Texas	31
Indiana	4	Utah 1	7
[owa 1	5	Vermont	4
Kansas	10	Washington	10
Louisiana	1	West Virginia	47
Maine	10	Wisconsin	55
Massachusetts	103	Wyoming	2

¹ Week ended Friday.

² Exclusive of New York City.

³ Exclusive of Oklahoma City and Tulsa.

Week ended Friday.
 Exclusive of New York City.

³ Exclusive of Oklahoma City and Tulsa.

SMALLPOX		TYPHOID FEVER—continued	
	Cases		Cases
Alabama	. 2	Delaware	
California	. 7	Florida	. 11
Florida	. 11	Georgia	. 30
Idaho		Idaho	. 2
Illinois		Illinois	. 73
Indiana		Indiana	. 37
Iowa 1		Iowa 1	. 3
Kansas		Kansas	
Louisiana		Louisiana	
Michigan		Maine	
Mississippi		Marvland 1	
Missouri		Massachusetts	
Montana.		Michigan	
Nebraska		Minnesota	
New Jersey		Mississippi	
New Mexico		Missouri	
New York *		Montana	
North Carolina		Nebraska	
Oklahoma 3		New Jersey	
Oregon		New Mexico	
South Carolina		New York *	
Tennessee		North Carolina	
Utah ¹	_	Oklahoma 3	
Washington	_	Oregon	
West Virginia			
Wisconsin		Pennsylvania	
Wyoming		South Carolina	
w yourng		South Dakota	
TYPHOID FEVER		Tennessee	
Alabama		Tennessee	
Arizona	. 14		
Arkansas		Utah 1	
California		Washington	
Colorado		West Virginia	-
Connecticut	. 5	Wisconsin	. 2
1 Week ended Friday.		¹ Week ended Friday.	
Exclusive of New York City.		² Exclusive of New York City.	
A The American of Ohlahamaa Olimaand Musley		1 Evolucive of Oklahome City and Tulsa.	

- ¹ Exclusive of Oklahoma City and Tulsa.
- 4 Includes delayed reports.

Reports for Week Ended September 10, 1927

DIPHTHERIA		SCARLET FEVER	Conn
Ca	IS es		Cases
District of Columbia	6	District of Columbia	. 8
North Dakota	2	North Dakota	. 16
. Measles		SMALLPOX	
North Dakota	1	District of Columbia	. 1
MENINGOCOCCUS MENINGITIS		North Dakota	. 3
North Dakota	1	TYPHOID FEVER	
POLIOMYELITIS		District of Columbia	. 3
North Dakota	3	North Dakota	. 1

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	Me- ningo- coccus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
June, 1927 Colorado July, 1927	1	106			546		1	386	15	19
ColoradoSouth Dakota August, 1927	0	63 18	2	1	152 41		2 0	152 58	19 34	26 2
Arizona Florida Michigan North Dakota	0 3 0 1	4 49 212 15	23 4	38 1	10 28 104 18	6 1	5 5 31 0	10 13 296 65	0 13 59 13	18 63 87 3

June, 1927 Colorado:	Cases	August, 1927—Continued	
		German measles:	Cases
Chicken pox		North Dakota	
		Hookworm disease:	
Impetigo contagiosa		Florida	. 59
Mumps		Leprosy:	,,
Rocky Mountain spotted or tick fever		Michigan	. 1
Septic sore throat		Jethargic encephalitis:	
Whooping cough	47		3
July, 1927		Florida Michigan	
Chicken pox:		Mumps:	. 4
Colorado	67	1 • .	
South Dakota	14	Arizona	
German measles:		Florida	
Colorado	8	Michigan	
Impetigo contagiosa:		North Dakota	. 4
Colorado	2	Paratyphoid fever:	_
Mumps:	_	Florida	. 2
Colorado	19	Rabies in man:	
South Dakota		Michigan	. 1
Septic sore throat:		Septic sore throat:	
Colorado	3	Michigan	4
Trachoma:	•	Tetanus:	
Colorado	2	Florida	2
Whooping cough:	•	Trachoma:	
Colorado	74	Arizona	1
South Dakota	52	Florida	1
Douth Dakota	0.5	North Dakota	1
August, 1927		Typhus fever:	
Chicken pox:	_	Florida	19
Florida	8	Whooping cough:	
Michigan	147	Arizona	1
North Dakota	2	Florida	15
Dysentery:	- 1	Michigan	673
Florida	15	North Dakota	30

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 98 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 30,670,000. The estimated population of the 93 cities reporting deaths is more than 30,080,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Wesks ended September 3, 1927, and September 4, 1926

	1927	1926	Esti- mated expect- ancy	·	1927	1926	Esti- mated expect- ancy
Cuses reported Diphtheria: 42 States 98 cities Measles: 41 States 98 cities Poliomyelitis: 42 States 42 States	1, 224 499 673 122 470	967 426 781 148	523	Cases reported—Contd. Typhoid fever: 42 States. 98 cities. Deaths reported Influenza and pneumo-	1, 233 189	1, 474 233	220
Scarlet fever: 42 States 98 cities Smallpox: 42 States 98 cities 98 cities	1, 046 340 127 23	901 296 120 11	268 23	nia: 93 cities Smallpor: 93 cities St. Joseph	352 1 1	305 0 0	

City reports for week ended September 3, 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 non-epidemic 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.

		GN. h	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
NEW ENGLAND									
Maine:		ĺ .	1	l			l		
Portland	75, 333	0	0	0	0	0	1	0	2
New Hampshire:	,		[1	· ·	1	_	· -	_
Concord	22, 546	0	0	0	0	1 0	1 0	l o	1
Manchester	83, 097	ŏ	i	lŏ	Ŏ	l ŏ	Ιŏ	Ŏ	Ō
Vermont:	00,000		- 1	í	1		1		ľ
Barre	10,008	0	0	0	0	1 0	1 0	0	0
Burlington	24, 089	ŏ	Ö		ı ŏ.	ŏ	lŏ	Ŏ	ŏ
Massachusetts:	22,000		٦	•	, .		, ,	•	١
Boston	779, 620	3	27	15	1	0	20	3	8
Fall River	128, 993	ľ	- i	ĭ	Ô	ŏ	ő	ŏ	ĭ
Springfield	142, 065	Ô	i	5	ŏ	ŏ	ŏ	ŏ	. ה
Worcester	190, 757	ŏ	3	3	ŏ	ŏ	ĭ	l ŏi	0
Rhode Island:	180, 757		9	3		U		, v	-
Pawtucket	69, 760	0	1	0	0	o	0	0	1
Providence		ŏ	3	5	ŏ	ŏ	i	ŏ	2
	267 , 918		9	9	U	U			-
Connecticut:	<i>(</i> 1)	ٔ ما							
Bridgeport	(1)	0	4	3	0	0	0	0	0 2
Hartford	160, 197	1	3	3	0.	1	0		2
New Haven	178, 927	0	2	3	0	0	2	0	2
MIDDLE ATLANTIC									
New York:		l			ŀ				
Buffalo	538, 016	0	12	18		0	0	2	7
New York	5, 873, 356	14	82	91	6	2	9	12	81
Rochester	316, 786	ō	5	5	•	ī	2	4	3
Syracuse	182, 003	ž	3	ĭ		Ō	6	2	3
New Jersey:	202,000	_	"	-		Ĭ		-	
Camden	128, 642	0	1	5	0	0	0	2	. 1
Newark	452, 513	4	6	3	ĭ	ŏ	ŏ	2	2
Trenton	132, 020		2	i	i	ŏ	ŏ	l ő	ī
Pennsylvania:	202,020	ı		1 -		1	ľ		_
Philadelphia	1, 979, 364	6	31	21	ļ	3	1	10.	23
Pittsburgh	631, 563	ľ	ii	11		ő	17	2	23 25
		Ô	2	11		lŏ	l i	์ ถึ	ี้ "ถึ
Reading	112, 707	, 0	2	1	l	. 0	1.	. 0	l

¹ No estimate made.

			Diph	theria	Infl	uenza			
Division, State, and city	Population July 1, 1925, estimated	Chiek- en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases re- ported	Mumps cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL									
Ohio: Cincinnati	409, 333	2	5	2		2	1		3
Cleveland	936, 485	16	21	36	0	0	9	13	7
Columbus Toledo	279, 836 287, 380	0	2 6	5	0	0	0	0	1
Indiana:	201,300	٠	٥	۰	•	"	U	•	1
Fort Wayne	97, 846	0	1	1	0	0	0	0	0
Indianapolis South Bend	358, 819 80, 091	0	4	3 0	0	0	0	2 0	5
Terre Haute	71, 071	Ŏ	ō	ŏ	Ŏ	Ŏ	ŏ	Ŏ	ĭ
Illinois: Chicago	2, 995, 239	25	47	58	2	3	3	14	33
Springfield	63, 923	0	i i	0	í	1	ő	2	33
Michigan:	1					1			
DetroitFlint	1, 245, 824 130, 316	3 1	35 5	13	0	1 0	1 0	8 0	15 3
Grand Rapids	153, 698	ô	2	î	ŏ	ŏ	ŏ	ŏ	ő
Wisconsin:	50, 891	o	0	0	0	0		1	0
Kenosha Madison	46, 385	ŏ	ĭ	ĭ	ŏ	ŏ	1 4	ō	Ö
Milwaukee	509, 192	5	8	8	0	0	1	4	0 2 1
Racine	67, 707 39, 671	0 2	0	3	0	0	0	0	1 0
-	35,011	- 1	٠,	١	١	•	١	۰	v
WEST NORTH CENTRAL	i		1	1			1		
Innesota: Duluth	110, 502	o	o	0	0	o	0	0	0
Minneapolis	425, 435	5	16	9 [0	1	2	0	1
St. Paulowa:	246, 001	0	12	2	0	0	0	0	3
Davenport	52, 469	ol	0	3	n		0	0	
Sioux City	76, 411	0	1	0	0		2	0	
Waterloo	36, 771	0	1	0	0		0	0	
Kansas City	367, 481	0	3	1	0	1	0	1	3
St. Joseph St. Louis	78, 342	0	20	19	0	0	1 3	0 3	2
orth Dakota:	821, 543	- 1	~	19	•	١	•	•	
Fargo	26, 403	0	0	0	0	0	0	0	0
Grand Forksouth Dakota:	14, 811	1	0	0	0		0	0 -	
Aberdeen	15, 036	1	1	0	0		0	0 .	
Sioux Falls	30, 127	0	0	0	0		0	0 -	
Lincoln	60, 941	o	0	0	0	0	1	5	1
Omaha	211, 768	ŏ	8	Ŏ	Ŏ	ŏ	ō	ĭ	1
ansas: Topeka	55, 411	0	1	0	o	0	o	o l	1
Wichita	88, 367	ŏ	î	4	ŏ	ŏ	ŏ	2	ô
SOUTH ATLANTIC					1	1		- 1	
elaware:				İ	- 1		1	- 1	
Wilmington	122, 049	0	1	2	0	0	0	0	0
fary land: Baltimore	796, 296	4	13	24	2	1	2	1	10
Cumberland	33, 741	0	0	0	0	0	0	0	0
Frederick istrict of Columbia:	12, 035	0	0	0	0	0	0	0	0
Washington	497, 906	5	4	11	1	1	0	0	7
irginia:	. 1	- 1		اہ	اء				
Lynchburg Norfolk	30, 395 (1)	0	0	0	0	0	0	8	1 1
Richmond	186 402	1	9	2	0	1	0	0	1
Roanoke	58, 208	0	3	1	0	0	0	0	0
est Virginia: Charleston	49, 019	1	1	1	1	. 0	0	0	0
Wheeling	56, 208	Ō	1	0	0	0	0	0	1
orth Carolina: Raleigh	30, 371	o	1	1	0	0	1	o	0
Wilmington	37, 061	Ō	1	0	0	1	0	0	1
Winston-Salem uth Carolina:	69, 031	0	2	1	0	0	3	4	1
Charleston	73, 125	0	1	0	29	0	0	0	0
Columbia	41, 225	Ō	1	2	0		1	0	1
Greenville	27, 311		1			'			

¹ No estimate made.

			Diph	theria	Infl	uenza			
Division, State, and city	Population July 1, 1925, estimated	Chiek- 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.									
Georgia: Atlanta	(1) 16, 80 9 93, 134	0 0	4 0 1	2 9 0	11 0 0	0 0 0	1 0 0	1 0 0	0
Miami St. Petersburg Tampa	69, 754 26, 847 94, 743	0 8	0 1	0 1	3 0	0 0 0	1 2	0	3 0 0
EAST SOUTH CENTRAL									
Kentucky: Covington Louisville Tennessee:	58, 309 305, 935	2 0	9 3	1	0	0	1 1	0	0 2
Memphis Nashville	174, 533 136, 229	0	3 1	- 1 2	0	0	0	0	0 2
Alabama: Birmingham Mobile Montgomery	205, 670 66, 955 46, 481	0 1	4 1 1	.0 2 3	1 2 0	0 0 0	0	0 0 0	5 0 0
WEST SOUTH CENTRAL									
Arkansas: Fort SmithLittle Rock	31, 643 7 4, 216	0	0	g 1	0		0 5	0	<u>2</u>
Louisiana: New Orleans Shreveport	414, 492 57, 857	ô	6	11 2	5 0	1 0	2 2	0	7 2
Oklahoma City Tulsa	(¹) 124, 478	0	1	. 0	0	0	0	0	2
Texas: Dallas Galveston Houston San Antonio	194, 450 48, 375 164, 954 198, 069	0	3 0 2 1	10 3 4 8	2 0 0 0	2 0 0 0	1 0 0	0 0 1 0	2 0 3 3
MOUNTAIN			.		ļ		- 1		
Montana: Billings	17, 971 29, 883 12, 037 12, 668	9 2 0 0	000	0	0 0	0 0 0	0	0 0 0 1	0 0 0 0
Boise Colorado:	23, 042	0	0	1	0	0	0	2	0
Denver Pueblo New Mexico:	280, 911 43, 787	3 9	3	6 -	0	0	0	0	1
Albuquerque Utah: Salt Lake City	21,000	6	1 2	4		0	0	0	1
Nevada: Reno	12, 665	0	0	1	0	0	0	0	0
PACIFIC						.			
Washington: Seattle Spekane Tacoma	(1) 108, 897 104, 455	6 6	3 2 2	2 2 1	0 -	0	6 0	3 0 1	<u>.</u>
Oregon: Portland California:	282, 383	0	4	7	0	0	3	1	3
Sacramento	(1) 72, 260 557, 530	9 1 6	22 2 14	16 3 4	4 0 0	0	3 6 7	1 0 4	12 0 4

¹ No estimate made.

	Scarle	l fever		Smallpo)X		Ту	phoid f	ever	Wheen	1
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 16- porte d	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
NEW ENGLAND											
Maine: Portland New Hampshire:	0	1	0	0	0	2	1	1	0	9	19
Concord Manchester	0	11	0	0	0	0	0	1 0	0	0	12 18
Vermont: Barre Burlington	0	0	0	8	0	0 0	0	0	0	0	1 3
Massachusetts: Boston Fall River Springfield Worcester	14 1 1 2	14 0 2 2	0 0	0 0 0	0 0 0	14 1 1 4	4 2 0 0	1 0 0 3	0 0 0 0	10 0 2 5	206 25 15 49
Rhode Island: Pawtucket Previdence	0 2	0 5	0	0	0	0 3	0 1	0 2	0	0 2	19 35
Conne cticut: Bridgeport Hartford New Haven	1 1 2	1 0 0	0 0 0	0 0 0	0 0 0	0 0 3	0 1 4	1 0 0	0 0 0	0 10 10	24 33 3 5
MIDDLE ATLANTIC		İ									
New York: Buffalo New York Rochester Syracuse	4 24 2 2	17 29 1 5	0 0 0	0 0 0	0 0 0 0	7 171 6 5	3 45 1 1	0 39 1 0	2 5 0 0	11 126 0 3	122 1, 104 73 52
New Jersey: Camden Newark Trenton	0 4 6	0 1 2	1 0	0 0 0	0 0	2 6 2	1 2 1	1 3 1	0 0 0	2 58 4	21 89 18
Pennsylvania: Philadelphia Pittsburgh Reading	19 9 0	18 4 0	0	0	0	39 9 1	14 3 0	8 3 0	1 0 1	23 24 6	413 173 28
EAST NORTH CENTRAL											
Ohio: Cincinnati Cleveland Columbus Toledo Indiana:	4 10 2 4	7 7 13 2	1 0 1 0	0	0 0 0	8 17 7 5	2 5 1 3	8 0 0 5	1 0 0 0	5 28 17 11	103 156 66 75
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	1 2 1 0	0 3 1 0	0 0 9 0	6 1 6 0	0 0 0	1 4 0 1	2 2 0 0	1 0 0	0 0 0	5 2 0 1	19 87 9 13
Chicago Springfield Michigan:	25 1	28 0	1 0	1 0	0	41 0	8	7	3 0	154 0	594 23
Detroit Flint Grand Rapids_	23 3 3	35 12 5	1 1 0	9	0	23 0 2	6 2 1	7 0 0	0	86 1 6	224 23 21
Wisconsin: Kenesha Madison	1 1	4 0	0	0	0	0	0	6	0	0	5 4
Milwaukee Racine Superior	8 1 1	1 0	0 0 1	0	0	7 0 0	1 0 0	0	0	37 5 0	81 10 12
WEST NORTH CENTRAL	1			l		ł	İ				
Minnesota: Duluth Minneapolis St. Paul Iowa:	4 12 5	5 6 1	0 1 1	0	0	0 5 4	0 2 1	0 1 0	0	2 1 6	18 66 56
Davenport Sioux City Waterloo	0	1 0 0	0	0 -			0 0 0	0 -		0	

¹ Pulmonary tuberculosis only.

Nebraska:	hs ca	nooping ugh, ases re- orted	Deaths, all causes
Missouri:	8		
Kansas City 2 0 0 0 1 0 6 3 0 0 St. Joseph 1 0 0 0 1 2 0 0 0 St. Joseph 1 1 0 0 0 1 2 0 0 0 St. Louis 7 15 1 0 0 0 16 7 1 North Dakota: Fargo 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	R	
St. Joseph. 1 0 0 0 1 1 2 0 0 0 St. Louis 7 15 1 0 0 0 16 7 1 North Dakota: Fargo. 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8	R	
North Dakota:		2	
Fargo	0	18	187
South Dakota:		0	
Aberdeen 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	0	
Nebraska: Lincoln		0	
Lincoln		0	
Kansas: Topeka	0	1	19
Wichita	1	0	32
SOUTH ATLANTIC Delaware: Wilmington Baltimore Cumberland Frederick 0 0 0 0 0 0 1 0 1 0 1 1 0	0	.9	10
Delaware: Wilmington 0 0 0 0 0 0 1 0 Maryland: Baltimore 6 2 0 0 0 13 11 10 Cumberland 0 0 0 0 0 0 1 0 Frederick 0 0 0 0 0 1 1 0	0	15	34
Wilmington 0 0 0 0 0 0 1 0 Maryland: Baltimore 6 2 0 0 0 13 11 10 Cumberland 0 0 0 0 0 0 1 0 1 0 Frederick 0 0 0 0 0 0 1 0	i		j
Baltimore 6 2 0 0 0 13 11 10 Cumberland 0 0 0 0 0 0 1 0 1 0 Frederick 0 0 0 0 0 0 0 1 0	0	2	17
Cumberland 0 0 0 0 0 0 1 0 Frederick 0 0 0 0 0 1 0	اه	23	169
	0	. 0	6
Dis. of Columbia:	0	0	3
Washington 3 13 0 0 0 12 4 5	1	7	122
Virginia:	0	1	14
Norfolk 0 0 0 0 2 2 1	Ō	1	l
	0	5	52 19
West Virginia:	- 1		ł
	2	0	20 26
North Carolina:			
	0	1 0	15 9
	o	12	13
Charleston 1 0 0 0 0 3 3 5	0	0	23
Columbia 0 0 0 0 0 2 1		4	9
Georgia:			
	1	0	51 3
Savannah 0 2 0 0 0 2 2 0 0	Ď	ĭ	29
Florida: 0 0 2 0 0	ا ا	3	2 5
St. Petersburg. 0 0 1 0	Ď		-6
Tampa 0 1 0 0 0 1 1 2 0	'	0	21
EAST SOUTH CENTRAL	1		
Kentucky:		-	
Covington 0 1 0 0 0 0 1 0 0 0 1 1 0 0 1 1 0 1		0 3	17 55
rennessee:	'	۰,	30
Memphis		0 2	66 49
Alabama:	1		
Birmingham 3 1 0 0 0 3 6 18 3 Mobile 0 2 0 0 0 1 1 0 0		4	58 22
Montgomery 0 . 0 0 0 0 1 4 0		ĭ	
WEST SOUTH CEN-		- 1	٠
Arkansas:	1	- 1	
Fort Smith 1 0 0 0 0 0	1		
Little Rock 0 0 0 0 0 5 2 2 0 Cuisiana:		0	
New Orleans 1 0 0 0 0 13 5 3 1 Shreveport 0 1 0 0 0 0 1 2 1 0	-	0	

	Scarle	t fever		Smallpo	X	m	1 .	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	Conn	Cases re- ported	Deaths re- ported	ing cough,	Deaths, all causes
WEST SOUTH CEN- TRAL—continued											
Oklahoma: Oklahoma City Tulsa	1	3 0	0	1 0	0	2	2	0 1	1	1	27
Texas: Dalias	1	7	1	0	0	2	3	3	0	5	37
Galveston		2 2	0	0	0	0	Ó	0	0	0	13
Houston San Antonio	0	2 2	0	0	0	9	1	2 2	1 1	2 0	65 60
MOUNTAIN					·						
Montana:											
Billings	0	2	1	0	0	0	0	1	0	8	10 3 2
Great Falls Helena		0	0	0	0	0	1 0	0	0	0	10
Missoula		1	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	ŏ	2
Idaho:	"	•	١	· •	•	١	•	•	•	•	
Boise Colorado:	0	0	1	0	0	0	0	0	0	0	. 9
Denver	3	2	1	2	0	11	3	0	0	4	78
Pueblo	ŏ	ī	Õ	ō	ŏ į	ō	Ŏ	ŏ	Ŏ	1	16
New Mexico: Albuquerque	0	1	0	o	0	6	0	0	0	0	10
Utah:		_				- 1	1				
Salt Lake City.	1 1	1	0	2	0	1	1	5	0	13	36
Nevada: Reno	0	0	0	o	0	o	o	0	0	o	4
PACIFIC											
Washington		[-		l l	- 1		1	I		
Washington: Seattle	4	5	1	. 0	1		2	2	ł	10	
Spokane	4	ŏ	î l	6			õ	õl.		Ö	
Tacoma	2	Ŏ	2	Ŏ	0	0	Ō	Ó	0	0	23
Oregon:	3	!		5		3	1	0	0	1	53
Portland California:	3	1	4	9	0	3	1	ا	0	1	. 33
Los Angeles	7	4	2	0	0	24	4	0	0	7	196
Sacramento San Francisco.	0 6	1 3	0	0	0	6	0	0	0	0 14	15 131
	1		1 .		1	l	1		1	!	
			l c	eningo- occus ningitis		ha rg ic phalitis	Pel	llagra		myelitis e paralys	
Division Stor	ta and a	.:			-		-	·	-	 -	

	co	ningo- ecus ingitis		hargic phalitis	Pe	ellagra	Poliomyelitis (infan- tile paralysis)			
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
NEW ENGLAND Maine:										
Portland	0	0	0	0	0	0	0	5	1	
Manchester	0	0	0	0	_0	0	0	1	0	
Boston	1	0	0	1	0	0	2	18	4	
Springfield.	Ō	0	0	0	0	0	1	1	0	
Worcester.	ŏ	Ŏ	Ŏ	Ŏ	Ō	Ó	0	4	0	
Rhode Island: Providence Connecticut:	0	0	0	0	0	0	0	0	1	
Hartford	0	0	.0	0	0	0	0	1	0	

			-			`			
	C0	ningo- ccus ingitis		hargic phalitis	Pe	llagra	Polion tile	yelitis paraly	(infan- /sis)
Division, State, and city	C ases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC		;							
New York: New York									
New Jersey:	4	1	2	2	0	0	8	66	
Newark Trenton	0	0	0	0	0	0	1 0	1	
Pennsylvania:				-		-		l	(
Philadelphia Pittsburgh	1 1	0	2	0	0	0	0	5 4	
Reading.	Ō	, ō	Ŏ	Ŏ	Ŏ	Ō	ŏ	i	Ò
EAST NORTH CENTRAL									
Ohio: Cincinnati	0		0	0	0	o	0	8	(
Cleveland	0	0	0	0	0	Ó	Ó	8	(
ColumbusIndiana:	O O	. 0	0	0	0	0	0	0	1
South BendIllinois:	0	. 0	. 0	0	0	0	0	4	(
Chicago	5	1	1	1	0	0	4	6	2
Michigan: Detroit	3	. 0	0	0	0	o	1	1	(
Flint		· ŏ	ŏ	ŏ	ŏ	ŏ	ō	i	. 0
Wisconsin: Madison	0	0	0	0	0	0	1	2	0
Milwaukee	1	Ŏ	Õ	Ŏ	Ŏ	Ō	ī	ō	ŭ
WEST NORTH CENTRAL				- 1	- 1				
Minnesota:						I			
St. Paul	0	0	0	0	0	0	1	2	0
Iowa: Sioux City	0		0		0		o	1	
Missouri:	0			•	. 0				
Kansas City St. Joseph	. 6	0	0	, 0	ő	0	0	9	0
St. Louis Kansas:	1	0	0	0	0	0	1	1	1
Wichita	1	0	0	0	0	0	0	0	0
SOUTH ATLANTIC	ļ		l		l			1	
Delaware:	1	- 1	.	.		1			
Wilmington Maryland:	0	0	0	0	0	0	0	1	0
Baltimore	0	0	1	2	0	0	2	0	0
Virginia: Roanoke	0	o	0	0	0	1	0	0	0
West Virginia	1	- 1	- 1	ł			1	1	
Wheeling North Carolina:	0	0	0	0	0	0	0	3	0
Raleigh Winston-Salem	0	0	0	0	0	1	0	0	0
South Carolina:	1	-	0	0	2	0	1	0	0
Charleston	0	0	0	0	8	0	0	0	U
Atlanta	0	o l	0	0	1	1	0	0	0
BrunswickFlorida:	0	0	0	0	0	1	0	0	0
Miami ² Tampa ²	0	0	0	0	1 0	0	0	0	0
-	١	١	١	•	١	١	0	*	
EAST SOUTH CENTRAL				1		İ	- 1		
Kentucky: Louisville	1	0	0				ا	ا	0
Tennessee:		1	1	0	0	9	0	0	
Nashville	0	0	0	0	1	1	0	4	0
Birmingham	0	0	0	0	4	2	o	0	0

Dengue: 1 case at Savannah, Ga.
 Typhus fever: 3 cases at Savannah, Ga., 1 case at Miami, Fla., and 1 case at Tampa, Fla.

City reports for week ended September 3, 1927—Continued

	Meningo- coccus meningitis		Lethargic encephalitis		Pellagra			Poliomyelitis (infan- tile paralysis)		
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
WEST SOUTH CENTRAL										
Arkansas: Little Rock Louisiana:	0	0	.0	0	0	4	0	0	0	
New Orleans Shreveport	0	0	0	0	2 0	1 2	0	1 0	0	
Oklahoma: Oklahoma City Tulsa	0	0	0	0	0	0	0 0	1 1	0	
Texas: Dallas Galveston Houston	0	0	0	0	0 0 0	0 1 1	0 0 0	1 0 3	1 0 0	
MOUNTAIN					-	_				
Nevada: Reno	0	0	0	0	0	0	0	1	, 0	
PACIFIC										
Washington: Seattle Tacoma	0		0	i -	0		1 0	2 3	ō	
Oregon: Portland	1	0	1	0	0	0	0	0	0	
California: Los Angeles Sacramento San Francisco	0	0 0 0	0	0 0 0	,0	0 0 0	0 0 0	6 3 9	1 0 0	

The following table gives the rates per 100,000 population for 101 cities for the five-week period ended September 3, 1927, compared with those for a like period ended September 4, 1926. The population figures used in computing the rates are approximate estimates as of July 1, 1926, and 1927, respectively, authoritative figures for many of the cities not being available. The 101 cities reporting cases had estimated aggregate populations of approximately 30,445,000 in 1926 and 30,966,000 in 1927. The 95 cities reporting deaths had nearly 29,785,000 estimated population in 1926 and nearly 30,296,000 in 1927. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, July 31 to September 3, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926 1

DIDUMURDIA CARR DATER

	1	DIPHT	HERIA	CASI	RATI	ES							
	Week ended—												
,	Aug. 7, 1926	Aug. 6, 1927	Aug. 14, 1926	Aug. 13, 1927	Aug. 21, 1926	Aug. 20, 1927	Aug. 28, 1926	Aug. 27, 1927	Sept. 4, 1926	Sept. 3, 1927			
101 cities	78	78	69	90	68	80	65	² 80	73	3 85			
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	40 88 104 52 43 10 39 118 102	63 92 80 42 65 31 92 135 76	31 62 101 56 48 57 26 73 104	70 97 94 67 82 25 92 180 107	47 59 87 83 60 21 64 146 62	111 94 85 44 62 51 75 54 60	50 56 76 81 61 57 34 73 91	86 78 81 54 \$88 61 96 7 119 94	26 59 99 67 69 41 60 91	88 77 87 4 72 6 94 51 164 117 73			
		MEA	SLES (CASE	RATES		<u> </u>		-				
101 cities	70	48	59	28	44	32	30	2 25	25	3 2			
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	83 42 113 58 47 41 9 137 121	93 43 29 34 38 10 55 45 144	68 33 84 67 80 31 4 64 94	63 28 19 22 14 15 21 36 60	52 27 72 28 35 36 9 18 78	84 35 13 22 27 5 42 18 71	38 15 43 20 15 36 4 27 94	58 24 13 16 \$22 25 17 7 28 52	33 17 31 10 9 31 0 36 91	58 18 11 4 12 6 20 10 42 42			
			· · · · · · · · · · · · · · · · · · ·		ı								
101 cities	61	51	51	58	48	50	55	2 54	51	358			
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	104 38 79 101 39 31 13 64 83	51 36 75 62 27 51 25 126 60	68 30 55 119 30 47 21 36 86	93 39 73 75 33 36 59 117 63	73 29 46 119 39 36 17 36 78	51 31 78 64 42 20 50 81 42	54 32 55 133 58 62 26 64 75	81 38 61 62 62 87 59 7 64 37	59 25 58 131 37 57 26 82 70	60 38 4 72 6 64 70 59 63 34			
		SMAL	LPOX	CASE	RATES	3							
101 cities	8	6	7	4	2	5	4	2 5	2	3 4			
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	0 1 9 14 11 16 13 9 24	0 0 9 0 9 5 17 18 21	0 0 1 4 11 26 21 73 32	0 5 4 5 0 0 9 24	0 1 2 4 6 5 0 0 5	0 0 7 10 4 25 4 18	0 0 7 0 9 0 9	0 0 6 4 5 0 25 0 7 28 31	0 0 0 9 10 4 0	6 (6 (3 (18			

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.
² Greenville, S. C., and Helena, Mont., not included.
² Sioux City, Iowa, Norfolk, Va., and Greenville, S. C., not included.
⁴ Sioux City, Iowa, not included.
⁴ Greenville, S. C., not included.
⁶ Norfolk, Va., and Greenville, S. C., not included.
† Helena, Mont., not included.

Summary of weekly reports from cities, July 31 to September 3, 1927—Annual rates per 100,000 population, compared with rates for the corresponding period of 1926—Continued

TYPHOID FEVER CASE RATES

				7	Veek en	ded				
•	Aug. 7, 1926	Aug. 6, 1927	Aug. 14, 1926	Aug. 13, 1927	Aug. 21, 1926	Aug. 20, 1927	Aug. 28, 1926	Aug. 27, 1927	Sept. 4, 1926	Sept. 3, 1927
101 cities	28	25	35	25	41	37	40	2 31	40	3 32
New England	12	7	17	30	17	30	19	33	12	
Middle Atlantic	19	13	24	15	34	20	39	21	34	21 28 15
East North Central West North Central	12 18	.9	20 24	14 22	17	19	20	11	20	15
South Atlantic	65	26 58	94	45	.48 93	38 82	42	20	42	4 10
East South Central	181	183	140	97	186	219	56 233	5 57 204	91 176	6 74
West South Central	43	50	47	88	43	80	39	75	43	183 55
Mountain	27	45	73	36 !	73	27	18	7 46	9	54
Pacific	29	13	29	10	24	31	38	21	46	8
95 cities	2	NFLUE	NZA I	DEATH	I RATI	ES 4	3	2.5	3	• 5
New England	0	0	0		0		0			
Middle Atlantic	2	i II	ĭl	2 2 2	i	2 2 2	3	2 2	0 2	2 3 5 4 6 8
East North Central	1	0	Õ	2	3 2	2	3	3	4	5
West North Central	0	2	2	6	2	0	8	2	4	, ,
South Atlantic	4	6	- 0	4	2	6	2	* 11	0	68
East South Central West South Central	9	5	10	5	0	10	0	15	16	5
Mountain.	9	9	13	13	26	30	4	22	9	13
Pacific	11	3	N I	0	0 7	0	18	79	9	18
		"	۰	٠,	- 4	١	١	7	0	0
	DN	JEHM	DATE A) TO A (TO T	I DAMI	"		<u>"</u>		

PNEUMONIA DEATH RATES

95 cities New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	54 56 42 51 68 52 97 64 57	47 33 46 44 44 53 51 69 54 62	50 31 62 35 25 57 52 106 82 39	55 77 57 41 44 72 66 56 63 55	54 40 58 35 49 87 36 66 82 78	45 49 47 35 25 53 66 69 36 72	47 33 56 37 42 59 47 71 73 21	2 47 51 55 34 31 37 66 65 7 37 62	51 50 59 34 36 64 52 49 64 78	49 72 51 23 644 46 82 54 55
---	--	--	---	--	--	--	--	--	--	---

Greenville, S. C., and Helena, Mont., not included.
 Sioux City, Iowa, Norfolk, Va., and Greenville, S. C., not included.
 Sioux City, Iowa, not included.
 Greenville, S. C., not included.
 Norfolk, Va., and Greenville, S. C., not included.
 Helena, Mont., 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		opulation of orting cases		opulation of ting deaths
	reporting cases	reporting deaths	1926	1927	1926	1927
Total	101	. 95	30, 443, 800	30, 966, 700	29, 783, 700	30, 295, 900
New England Middle Atlantic East North Central	12 10	12 10	2, 211, 000 10, 457, 000	2, 245, 900 10, 567, 000	2, 211, 000 10, 457, 000	2, 245, 900 10, 567, 000
West North Central South Atlantic	16 12 21	16 10 20	7, 650, 200 2, 585, 500 2, 799, 500	7, 810, 600 2, 626, 600 2, 878, 100	7, 650, 200 2, 470, 600 2, 757, 700	7, 810, 600 2, 510, 000 2, 835, 700
East South Central West South Central	7 8	7 7	1, 008, 300 1, 213, 800	1, 023, 500 1, 243, 300	1, 008, 300 1, 181, 500	1, 023, 500 1, 210, 400
Mountain Pacific	9 6	9	572, 100 1, 946, 400	580, 000 1, 991, 700	572, 100 1, 475, 300	580, 000 1, 512, 800

FOREIGN AND INSULAR

CHOLERA ON VESSEL

Further relative to cholera on steamship "Adrastus"—Yokohama—August 6, 1927.—Further information, dated August 12, 1927, shows the occurrence of a second case of cholera on the steamship Adrastus at Yokohama, Japan.¹

THE FAR EAST

Report for week ended August 27, 1927.—The following report for the week ended August 27, 1927, was transmitted by the Eastern Bureau of the Health Section of the Secretariat of the League of Nations, located at Singapore, to the headquarters at Geneva:

	Pla	gue	Che	olera	Small- pox			Plague		Cholera		Small- pox	
Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths	Maritime towns	Cases	Deaths	Cases	Deaths	Cases	Deaths
Egypt: Alexandria Port Said Iraq: 1 Basra Persia: Mohammerah	2 0 0	0 0	0 0 49 23	0 0 17 20	0 1 1 0	0 0 1 0	Dutch East Indies: Banjermasin Makassar French Indo-China: Turane	0 2	0 2	0	0	35 0	0
British India: British India: Bombay Negapatam Madras Calcutta		1 0 0		20 2 0 53 7	5 1 2 7	2 0 0 7	Philippine Islands: Ma- nila China: Canton Amoy	0	0 0 0	1 6 10	0 2	0	0 0 0
RangoonCeylon: Colombo	1	3	0	0	1 0	0	Shanghai	ŏ	0		24 1	0	0

¹ The Iraq health service states that Muntafig and Amarah are infected with cholera.

Telegraphic reports from the following maritime towns indicated that no case of plague, cholera, or smallpox was reported during the week:

ASIA

Arabia.-Bahrein.

Persia.—Bender-Abbas, Bushire, Lingah.

India.—Karachi, Chittagong, Cochin, Tuticorin, Vizagapatam, Bassein, Moulmein.

Portuguese India.-Nova Goa.

Federated Malay States.—Port Swettenham.

Straits Settlements.-Penang, Singapore.

Siam.-Bangkok.

Dutch East Indies.—Batavia, Surabaya, Pontianak, Semarang, Cheribon, Balikpapan, Padang, Belawan-Deli, Tarakan, Sabang, Palembang, Samarinda, Menado.

Sarawak.-Kuching.

British North Borneo.—Sandakan, Jesselton,

¹ Public Health Reports, Aug. 19, 1926, p. 2128.

Kudat, Tawao.

Portuguese Timor.—Dilly.

Philippine Islands.—Iloilo, Jolo, Cebu, Zamboanga.

French Indo China.—Salgon and Cholon, Haiphong.

China.-Hong Kong, Tientsin, Tsingtao.

Formosa.-Keelung, Takao.

Chosen.—Chemulpo, Fusan.

Manchuria.—Yingkow, Antung, Harbin, Mukden, Changchun.

Kwantung.-Port Arthur, Dairen.

Japan.—Nagasaki, Yokohama, Niigata, Shimonoseki, Moji, Tsuruga, Kobe, Osaka, Hakodate.

AUSTRALASIA AND OCEANIA

Sydney, Australia.-Adelaide, Melbourne, Brisbane, Rockhampton, Townsville, Port Darwin, Broome, Fremantle, Carnarvon, Thursday Island. Cairns, Port Moresby.

New Guinea.-Port Moresby.

New Britain Mandated Territory.-Rabaul and Kokopo.

New Zealand .- Auckland, Wellington, Christchurch, Invercargill, Dunedin.

Western Samoa .- Apia.

New Caledonia.-Nouméa.

Fiji.-Suva.

Hawaii.-Honolulu.

Society Islands.-Papeete.

AFRICA

Anglo-Egyptian Sudan.-Port Sudan, Suakin.

AFRICA-continued

Eritrea.-Massaua.

French Somaliland .- Djibouti.

British Somaliland .- Berbera.

Italian Somaliland.-Mogadiscio.

Kenya.-Mombasa.

Zanzibar.—Zanzibar.

Tanganyika.—Dar-es-Salaam.

Seychelles.-Victoria.

Portuguese East Africa.-Mozambique, Beira, Lourenco-Marquez.

Union of South Africa .- East London, Port Eliza beth, Cape Town, Durban.

Reunion .- Saint Denis.

Mauritius.-Port Louis.

Madagascar, -- Majunga, Tamatave, Diégo-Suarez

AMERICA

Panama.-Colon, Panama.

Reports had not been received in time for publication from:

Aden Protectorate.-Kamaran, Aden, Perim.

Persia.-Abadan, Ahwaz, Minab.

Union of Socialist Soviet Republics.-Vladivostok.

Belated information:

Week ended August 20: Madras, cholera, 61 deaths. Week ended August 13: Pondicherry and Karikal, nil. Week ended August 13: Makassar, plague, 1 fatal case.

QUARANTINE MEASURES

The following reports of quarantine measures have been published by the health section of the League of Nations:

Syria.—The high commissioner of the French Republic for the States of Syria reports on August 6 that on account of the prevalence of cholera at Basra all travelers coming from Iraq must pass the frontier by the direct route leading from Baghdad to Damascus. Unvaccinated travelers will be vaccinated at control stations. Those who arrive at the frontier outside of these points will be vaccinated at the frontier posts. Arrivals from Basra, Abadan, and Mohammerah are considered as suspects and kept under observation for five days. These measures are of special importance because the route from Baghdad to Damascus is the usual way of communication from Iraq to Palestine and Egypt. Additional barrages have been organized at Aleppo, Damascus, Homs, and Tripoli. The sanitary passports of travelers on the Palestine Railway are controlled at Deraa and Beirut.

Italy.—The Ministry of Foreign Affairs reports on August 18 that arrivals from Abadan and other ports on the Persian Gulf are subject to quarantine measures against cholera. These measures came into effect on August 3.

Arrivals from Mytilene (Greece) were subjected to measures against bubonic plague from August 13.

Arrivals from Dakar and all other ports of Senegal were subjected to measures against yellow fever from August 8.

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CANADA

Communicable diseases—Week ended September 3, 1927.—The Canadian ministry of health reports cases of certain communicable diseases in six Provinces of Canada for the week ended September 3, 1927, as follows:

Diease	Nova Scotia	New Bruns- wick	Que-	Mani- toba	Sas- katch- ewan	Al- berta	Total
Influenza. Smallpox Typhoid fever	5 5	7	33	2 5	13 3	3	5 18 54

Communicable diseases—Ouebec—Week ended September 3, 1927.— The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended September 3, 1927, as follows:

Disease	Cases	Disease	Cases
Chicken pox Diphtheria German measles Measles	2 31 1 8	Scarlet fever Tuberculosis Typhoid fever Wheoping cough	26 36 33 6

Measures against spread of poliomyelitis—Trail, British Columbia.—
Information received under date of August 27, 1927, shows that measures have been instituted at Trail, British Columbia, to check the spread of poliomyelitis recently reported prevalent at that place.¹ Churches and places of entertainment have been ordered closed and the date for opening schools has been extended.

Typhoid fever — Montreal — January 2-September 10, 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. 15, 1927 Jan. 22, 1927 Jan. 29, 1927 Feb. 5, 1927 Feb. 19, 1927 Feb. 19, 1927 Mar. 12, 1927 Mar. 12, 1927 Mar. 26, 1927 Mar. 26, 1927 Apr. 2, 1927 Apr. 2, 1927 Apr. 4, 1927 Apr. 4, 1927 Apr. 4, 1927 Apr. 6, 1927 Apr. 6, 1927 Apr. 16, 1927 Apr. 6, 1927	203 383 568 649 386 175	1 3 2 1 0 0 2 1 1 4 14 22 48 40 38	May 14, 1927 May 21, 1927 May 28, 1927 June 4, 1927 June 11, 1927 June 25, 1927 July 2, 1927 July 9, 1927 July 16, 1927 July 23, 1927 July 23, 1927 July 20, 1927 Aug. 6, 1927 Aug. 6, 1927 Aug. 6, 1927 Aug. 20, 1927	770 356 239 128 86 75 66 52 39 22 23 16 20 14	16 26 88 27 36 21 10 4 9 10 5 5 4
Apr. 23, 1927 Apr. 30, 1927 May 7, 1927	125 105 106	43 23 19	Aug. 27, 1927 Sept. 3, 1927 Sept. 10, 1927	127 17	3

¹ Public Health Reports, Sept. 16, 1927, p. 2328.

Vital statistics—Quebec—June, 1927.—Births and deaths in the Province of Quebec for the month of June, 1927, were reported as follows:

Estimated population	2, 604, 000
Births	6, 815
Birth rate per 1,000 population	31. 40
Deaths	2, 905
Death rate per 1,000 population	13. 39
Deaths under 1 year	731
Infant mortality rate	107. 26
Deaths from:	
Accidents (all)	109
Cancer	128
Cerebrospinal meningitis	5
Diabetes	25
Diarrhea	148
Diphtheria	38
Heart disease	285
Influenza	37
Measles	32
Pneumonia	209
Scarlet fever	12
Syphilis	7
Tuberculosis (pulmonary)	212
Tuberculosis (other forms)	57
Typhoid fever	134
Whooping cough	37

CUBA

Communicable diseases — Habana — August, 1927.—During the month of August, 1927, communicable diseases were reported in Habana, Cuba, as follows:

Disease	New cases	Deaths	Re- main- ing under treat- ment Aug. 31, 1927	Disease	New cases	Deaths	Re- main- ing under treat- ment Aug. 31, 1927
Chicken pox. Diphtheria. Filariasis. Leprosy. Malaria ¹	2 8 67	2	11 3 1 15 52	Measles Paratyphoid fever Scarlet fever Typhoid fever 1	10 3 2 26	2	18 1 2 50

¹ Many of these cases from the interior.

EGYPT

Plague—August 6-12, 1927.—During the week ended August 12, 1927, five cases of plague were reported in Egypt, occurring in the district of Abou Kerkas.

Summary—January 1-August 12, 1927.—During the period January 1 to August 12, 1927, 63 cases of plague were reported in Egypt, as compared with 116 cases reported during the corresponding period of the year 1926.

ESTONIA

Communicable diseases—June, 1927.—During the month of June, 1927, communicable diseases were reported in the Republic of Estonia as follows:

Disease	Cases	Disease	Cases
Diphtheria. Measles. Scarlet fever.	21	Tuberculosis	153
	493	Typhoid fever	44
	829	Typhus fever	4

Population: 1,114,650.

HAWAII TERRITORY

Plague rodent—Kukuihaele—August 17, 1927.—A plague-infected rat was reported found at Kukuihaele, Island of Hawaii, August 17, 1927.

JAMAICA

Smallpox (alastrim)—August 1-27, 1927.—During the period August 1 to 27, 1927, six cases of smallpox (reported as alastrim) were reported in the Island of Jamaica.

Other communicable diseases.—During the same period other communicable diseases were reported in Jamaica as follows:

	Cases			Ca	
Disease	Kings- ton	Other locali- ties	Disease	Kings- ton	Other locali- ties
Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Erysipelas	3	1 5 1 4	Leprosy Puerperal fever Tuberculosis Typhoid fever	1 16 15	1 1 48 66

Population: Kingston, 62,707; island of Jamaica, 926,000.

LATVIA

Communicable diseases—May and June, 1927.—During the months of May and June, 1927, communicable diseases were reported in the Republic of Latvia as follows:

MONTH OF MAY, 1927

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Diphtheria Dysentery Erysipelas Influenza Leprosy Lethargic encephalitis Measles Mumps	8 50 4 21 93 1 2 988 3	Paratyphoid fever. Puerperal fever Scarlet fever Tetanus Trachoma Typhoid fever Typhus fever Whooping cough	4 2 262 2 28 42 5 88

Population: 1,950,000.

MONTH OF JUNE, 1927

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Diphtheria Dysentery Erysipelas Influenza Leprosy Malaria Measles Mumps	8 33 3 14 24 5 4 635 6	Paratyphoid fever Puerperal fever Recurrent fever Scarlet fever Trachoma Typhoid fever Typhus fever Whooping cough	8 3 1 141 14 57 4 63

Population: 1,950,000.

MADAGASCAR

Plague—July 1-15, 1927.—During the period July 1-15, 1927, 21 cases of plague with 21 deaths were reported in the island of Madagascar. The occurrence was in the Provinces of Ambositra, Itasy, Moramanga, and Tananarive, and was distributed as follows: Ambositra, 1 case; Itasy, 10 cases; Moramanga, 1 case; Tananarive, 8 cases; and in the town of Tananarive, 1 case. The number of fatalities in the several Provinces corresponded with the number of cases. The distribution according to type of disease was: Bubonic, 6 cases; pneumonic, 12; and septicemic, 3.

Supplementary report.—Under date of August 2, 1927, additional cases were reported for Madagascar, for the Province of Itasy, as follows: June 1-15, 1927, cases, 9; deaths, 4, viz., bubonic cases 3, pneumonic 6. For June 16-30, 1927, 1 case, bubonic.¹

MALTA

Communicable diseases—July 1-31, 1927.—During the month of July, 1927, communicable diseases were reported in the island of Malta as follows:

Disease	Cases	Disease	Cases
Broncho-pneumonia Diphtheria Erysipelas Influenza Lethargic encephalitis Malaria Malta fever	6 3 1 2 1 13 90	Puerperal fever Scarlet fever Trachoma Tuberculosis Typhoid fever Whooping cough	1 3 41 21 70 12

¹ Of which 2 contracted abroad. Population, civil, estimated, 227,440.

SENEGAL

Plague—Yellow fever—August 1-21, 1927.—During the three weeks ended August 21, 1927, plague was reported in the interior of Senegal as follows: Week ended August 7—cases, 62; deaths, 34; week ended August 14—cases, 91; deaths, 78; week ended August 21—cases, 61; deaths, 44; total, cases, 214; deaths, 156. In urban

¹ Public Health Reports, Aug. 26, 1927, p. 2185, and Sept. 16, 1927, p. 2329.

centers the occurrence was reported as follows: Dakar—36 cases, 25 deaths; Rufisque, 41 cases, 35 deaths; in four village settlements, 9 cases, 6 deaths. A fatal case of yellow fever was reported as having occurred at Grand Bassam, Ivory Coast, on July 29, 1927. At Obuasi, Ashanti, a case was reported on August 6; August 4, at Ho, Gold Coast, 2 cases, and at Meiatza, Togoland, a fatal case August 15 to 21. In Senegal from August 1 to 14, 7 cases and 2 deaths were reported.

SOUTHWEST AFRICA

Suspect plague case—Steamship "Tanganyika"—Luderitz—July 26, 1927.—Information dated August 5, 1927, shows the removal of a patient presenting symptoms suspicious of plague, from the steamship Tanganyika at Luderitz, southwest Africa. The history of the case shows the patient to have been admitted to hospital at Elizabethville, Belgian Congo, June 2, 1927, and to have left for Europe July 22, 1927, via Bulawayo and Cape Town, arriving at Cape Town July 22 and embarking on steamship Tanganyika. The patient and contacts were landed at Luderitz.

UNION OF SOUTH AFRICA

Plague—Orange Free State—July 24-30, 1927.—During the week ended July 30, 1927, a fatal case of plague, occurring in a native and on a farm, was reported in Rouxville District, Orange Free State. On July 26, 1927, a death from plague, occurring in a case reported during the previous week, was notified in Edenburg District, Orange Free State.

VIRGIN ISLANDS

Communicable diseases—July, 1927.—During the month of July, 1927, communicable diseases were reported in the Virgin Islands of the United States as follows:

Island and disease	Cases Remarks		Island and disease	Cases	Remarks
St. Thomas: Chicken pox Gonococcus infection Syphilis Uncinariasis	1 3 1	Secondary. Necator americanus.	St. Croix: Gonoecceus infection. Malaria. Syphilis. Uncinariasis	1 1 4 7	Tertian. Secondary. Necator americanus.

¹ Public Health Reports, Sept. 16, 1927, p. 2329.

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

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

Reports Received During Week Ended September 23, 1927 1 CHOLERA

	CHC	JUBBA		
Place	Date	Cases	Deaths	Remarks
China: Amoy Foochow India	B.	-		Several cases and deaths.
Calcutta Madras	July 31–Aug. 6 Aug. 7–13	16 185	8 72	
Iraq: Baghdad Basra On vessel:	July 24-30 July 31-Aug. 13	. 29 163		
S. S. Adrastus	. Aug. 6	. 1		At Yokohama, Japan. (See Public Health Reports, Aug. 19, 1927, p. 2128.)
	PLA	GUE		
Egypt				Aug. 6-12, 1927: Cases, 5. Sum- mary, Jan. 1-Aug. 12, 1927: Cases, 63; corresponding period, year 1926, cases, 116.
Hawaii Territory: Kukuihaele India	Aug. 17			i i
India Madras Presidency Java:	July 17-23	86	45	Islandof Hawaii. Plague rodent. July 10-16, 1927: Cases, 114; deaths, 71.
East Java and Madura Madagascar	July 10-16	4	4	July 1-15, 1927: Cases, 21; deaths, 21. Bubonic, 6; pneu- monic, 12; septicemic, 3.
Province— Ambositra Itasy * Do. * Do. *	July 1-15	1 9 1 10	1 4 10	deaths, 2; septicemic, 3; Bubonic, 12; septicemic, 6. Bubonic, 3; pneumonic, 6. Bubonic, 2; pneumonic, 7; septicemic, 1.
Moramanga Tananarive Senegal	do	l	1 9	septicemic, 1. Septicemic, 4; pneumonic, 4; septicemic, 1. Aug. 1-21, 1927: Interior—Cases, 214; deaths, 156. Urban
Dakar		36	25	214; deaths, 156. Urban centers—Cases, 86; deaths, 66. Including 1 case in suburb of Yoff.
RufisqueUnion of South Africa:	do	41	35	In 4 villages, 9 cases, 6 deaths.
Orange Free State Edenburg District	July 24-30 July 26	1	1 1	In Rouville District, in native. In case reported preceding week. (Public Health Reports Sent
Rouxville District	July 24-30	1	1	(Public Health Reports, Sept. 16, 1927, p. 2329.) Native. On farm.
	SMAL	LPOX	·	
Brazil:				
Porto Alegre	July 1-31 Aug. 14-20	5 3		
Northern Rhodesia Canada:		2		Native.
Alberta Manitoba Ontario—	Aug. 28-Sept. 3	3 2		•
Ottawa Saskatchewan Ceylon:	Aug. 28-Sept. 10 Aug. 28-Sept. 3	22 13		
Colombo rance: Paris	July 31-Aug. 6 July 10-31	1 3	1	
~ ~5.60		• 1	1	

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

² Received out of date. Omitted from Public Health Reports, Aug. 26, 1927, p. 2185, and Sept. 16, 1927, p. 2329.

Reports Received During Week Ended September 23, 1927—Continued

SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Great Britain:				
England and Wales-			1	
Loeds	Aug. 21-27	5		
Stoke-on-Trent	do	1		T1- 10 10 1007. Con 0 100
India			10	July 10-16, 1927: Cases, 3,132 deaths, 891.
Calcutta	July 31-Aug. 6	11	10	deaths, 691.
Madras Italy:	Aug. 7-13	72.		
Rome	June 13-19	1	1	
Jamaica	0 10 10 10 10 10 10 10 10 10 10 10 10 10	·		Aug. 1-27, 1927: Cases, 6; re
		,		ported as alastrim.
Japan:	!	i	i	•
Nagasaki	Aug. 8-14	1	1	
Paraguay:	1		1 _	the state of the s
Asuncion	July 10-23		2	
Persia:	1	l	3	
Teheran	Apr. 22-May 22		8	
	TYPHU	PRVE	HR.	
				•
Estonia	1			June, 1927: Cases, 4.
Latvia				May 1-June 30, 1927: Cases, 9.
Mexico:				
Mexico City	Aug. 14-27	14		Including municipalities in Fed
			1	eral District.
Palestine:	1	_	1	
Jaffa	Aug. 9-15	1 2		
Jerusalem	July 15-Aug. 15	2		
Portugal: Oporto	Aug. 20-27	1		
Spain:	Aug. 20-21	-		
opain.	Aug. 19-25		2	
Sowillo				
Seville	1246. 20 20111111			
Seville Tunisia: Tunis	Aug. 15-21	1		

YELLOW FEVER

Ashanti: Obuasi Gold Coast Ivory Coast	Aug. 6 Aug. 4 July 29	1 2 1	1-
Senegal: Khombole Oakuam St. Louis	Aug. 1–14	3 2 2	1 1
Togoland: Meiatza	Aug. 15–21	1	1

Reports Received from June 25 to September 16, 1927 ¹ CHOLERA

Place	Date	Cases	Deaths	Remarks
China: Amoy	May 22-July 23 May 1-July 23 July 17-23	1 16 2	1 7 2	
Kulangsu Shanghai . Do Swatow	June 21 June 19-25 July 31-Aug. 6 May 15-July 30	1 2 96	3 13	In international settlement and French concession.
India	Apr. 17-July 9 May 8-July 23 May 8-July 20 May 29-June 4	27 564 1	11 347	Cases, 89,569; deaths, 52,631.
Madras Rangoon	June 19-Aug. 6 May 8-July 80	383 17	200	

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

Reports Received from June 25 to September 16, 1927—Continued

CHOLERA-Continued

Ricco	Data	Cases	Deaths	Remarks
India, French Settlements in	Mar. 30-June 30	15	8	
Indo-China (French)	Apr. 1-July 10			Cases, 11,145.
Annam	do	1, 467 235		
Cochin-China	do	1, 354		1
floiren	June 4-July 14	1, 302		
Tonkin	Apr. 1-June 30	8,099		1
raq:		5,555		· ·
Basra	Reported July 25	9	7	
apan:	1 -	i	l	
Yokohama	July 31-Aug. 6	1.	1	
Persia:				
Abadan	July 19-31		166	
Mohammerah	do		61	
Nasseri	d o		10	
Philippine Islands:	July 17-23			
Bulacan Province	June 7-July 8	3	.2	
Leyte Province	July 6	٠		
Barugo	June 29	1	7	
Carigara	Jame 23	· ī	ī	Final diagnosis not received.
Palo	May 18	ī		
iam	May 1-July 23			Cases, 226; deaths, 130.
Bangkok	do	43	12	•
n vessel:				
S. S. Adrastus	Reported Aug. 6	1	1	At Yekehama, Japan.
War Mehtar (oil tanker)	Aug. 4	1	1	At Saffagha, Egypt.

PLAGUE

			1	
Argentina	Jan. 1-Aug. 2		.	Coses, 80; deaths, 44,
Buenos Aires	Apr. 10-May 7	4	3	7
Cordoba	Jan. 11-Aug. 6	52	29	1
Corrientes	June 1	1	1 7	1
Entre Rios	Mar. 29-Aug. 2	7	l i	•
Santa Fe	Apr. 28-May 16	1 4	l â	1
Territory—	mpr. 20 May 10			}
Chaco—	į.	i	1	i
Barranqueras	May 29	2	2	
Formosa		3	2	l .
Pampa	July 27-Aug. 2		2	i
Pi- N				
Rio Negro	. Aug. 6	1		
City—		į.		l
Merou	Reported July 14			Present.
Rosario	May 7	1	1	,
Santa Fe	May 16	4	2	
Azores:	l	ļ		
Ribeira Grande	June 19-18			9 miles from port.
St. Michaels Island	May 15-July 30	3		
British East Africa:				
Kenya	Apr. 24-July 2	60	14	
Nairobi	May 22-98	- 6		
Tanganyika	Mar. 29-May 28		37	
Uganda	Ian. 1-Feb. 28	138	121	
Do	Mar. 27-June 18	266	300	
Canary Islands:	#141. 21 Julio 10	-00	300	
Leguna district				
Teitra.	June 17.	1		
Devion:	Jame 17	1		
Colombo	35-m 1 Tul- 6	17		Di
China:	May 1-July 2	17	11	Plague rats, 4.
	1			.
Amoy	July 3-23		'	Present in surrounding country.
cuador:				
Gnavaquil	June 1-July 31			Rats taken, 48,290; found in-
	1		1	fected, 34.
gypt	May 1-July 8			Cases, 7; deaths, 2.
Alexandria	June 4-10	1		
Beni-Souel	June 4-July 13	5	2	
Biba	June 4-10	1 4		At Nana.
Dakhalia	June 24-July 9	61	1	
Minia	Ang. 8-9	4		
Port Said	June 24-July 21	4	1	
Tanta district	June 4-10	î	1	
reece	May 1-June 30	4	3	
Athens	June 1-Aug. 6	2	"	Including Piracus.
Mytilene	Aug. 9.	î		THE PERSON
Patras	Many 30-Aux. 6.		1	
- au a0		0.1		e de la companya de

Reports Received from June 25 to September 16, 1927—Continued

PLAGUE—Continued

Place	Date	Cases	Deaths	Remerks
Hawaii Territory:				
Hamakua	July 15			1 plague rodent.
Honokaa	May 17-23	2	2	
Kukuihaele	May 17-23 Aug. 12	1	1	1
Paauilo	July 26-Aug. 1		4	ì
India	July 26-Aug. 1 Apr. 17-July 9			Cases, 21,700; deaths, 8,253.
Bombay	May 8-July 23	80	67	
Madras	May 1-July 16	267	122	<u>'</u>
Rangoon	May 8-July 30	48	44	
Indo-China (Franch)	Apr. 1-July 10	32		
Kwang-Chow-Wan	May 21-July 10	68		· ·
Iraq:		ł		
Baghdad	Apr. 8-May 28	12	1	i
Java:	-	ł	1	1
Batavia	May 1-July 23	182	183	Province.
East Java and Madura	May 22-July 2	24	23	
Pasoeroean Residency	May 9	İ		Outbreak reported at Nagd
Surabaya	Apr. 17-May 7	24	24	Wono.
Madagascar	120111111111111111111111111111111111111			Mar. 16-Apr. 30, 1927; Cases
Province—				Mar. 16-Apr. 30, 1927: Cases 256; deaths, 135.
Ambositra	Mar. 16-June 30	93	86	200, dearle, 200.
Antisrabe	Mar. 16-May 15	8	8	
Miarinarivo (Itasy)	Mar. 16-May 31	45	45	
Misimarivo (itasy)	May 16-June 30	23	22	i.
Moramanga	Mar. 16-June 30	212	185	
Tananarive		212	20	
	do	228	177	
Nigeria	Mar. 1-May 31	220	111	Cases, 22; deaths, 8,
Peru.	AprMay 31			Cases, 22, Gearns, 6.
Departments—	4 1 00			
Ica	Apr. 1-30	1		
Lambayeque	do	1		
Libertad	Apr. 1-May 31	7	4	
Lima Lima City	do	13	4	
Lima City	Apr. 1-30.	5	- 1	
Senegal	May 23-July 17			Cases, 442; deaths, 259.
Baol	June 2-July 31	45	23	
Cayor Frontier	July 4-31	126	74	
Dakar	June 20-July 30	80	50	
Facel	July 6	17	8	* * * *
Guindel	June 20-26	11	2	
M'Bour	July 6-10	28	23	
Medina	June 13-19	2	2	
Pout	July 4-10	1		
Rufisque	May 23-July 30	163	117	•
Thies district	do	27	9	
Tivaouane	June 2-July 17	50	32	
Siam	Apr. 1-July 23			Cases, 10; deaths, 7.
Bangkok	May 8-June 11	2	1	• •
Syria:			[[
Beirut	June 11-July 10	3		
Tunisia.	Apr. 21-July 10	144		
Tunis	July 25-Aug. 1	1		
Turkey:	vanj 20 11ag. 11111	_		•
Constantinople	May 13-19	1		
Union of South Africa:		-		
Cape Province—				
Maraisburg district	May 1-14	2	2	Native.
Orange Free State—	may 1-17	•		
Edenburg district	July 17-23.	3	2	Natives; on farm.
	July 17-23	3	2	On Norwegian vessel at Gavle
On vessel	ama 10-10	3		
S S A	T 04 00	1		125 miles north of Stockholm
S. S. Avoroff	June 24-30	1		On Greek warship at port o
O O Deschala	A P	_		Athens.
S. S. Ransholm	Aug. 5	3		At Gefie, Sweden, from Ru- fisque, Senegal.

SMALLPOX

Algeria	Apr. 21-July 10			Cases, 648.	
AlgiersOran	May 11-June 30 May 21-Aug. 10	8- 47		•	
Arabia: Aden	July 17-Aug. 1	2	1		and the state of t
Brazil: Rio de Janeiro British East Africa:	May 22-July 30	. 9	8		
KenyaTanganyika	Apr. 24-May 14 Mar. 29-June 18 Apr. 1-May 31	. 7 2 19	14 22		

Reports Received from June 25 to September 16, 1927-Continued

SMALLPOX-Continued

Place	Date	Cases	Deaths	Remarks
British South Africa:			1	
Northern Rhedesia	Apr. 30-July 23	196] 2	G ma
('anadaAlberta	June 5-Aug. 27 June 12-Aug. 27		-	. Cases, 395. Cases, 93.
Calgary	do	9		Casso, 70.
British Columbia-		1		
Vancouver	May 23-29	2		
Manitoba	- June 5-Aug. 27			. Cases, 29.
Winnipeg Ontario		17		Cases, 177.
Ottawa		100		. Cases, 177.
Sarnia	_ Aug. 7–13	1		
Toronto		9		
Quebec	Jume 19-Aug. 27 Jume 12-Aug 27	15		Canan FR
Saskatchewan Moose Jaw	Aug. 14-20	5		Cases, 58.
Regina	. July 17-Aug. 27	10		
Ceylon	. May 1-7			Cases, 3; deaths, 1.
China:	35am 0 00	١,	ľ	
Anagy Do	May 8-28	1		Present in automotive accorded
Antung		3		Present in surrounding country.
Cheefoo				Present,
Foochow				Do.
Hong Kong	Many 8-July 30	19	18	
Manchuria— Anshan	May 22-28	1	1	
Changchun		8		
Dairen	May 2-July 3	10	5	
Fushun	May 15-July 30	10		
Ha rbin Kai-Yuan	June 13-July 10	4		
Mukden	July 3-9	2 6		
Pensihu	July 3-9	ĭ		
Ssupingkai	. May 8-July 9	3		
Tientsin	. Masy 8-July 30	18		
Chippenno		<u>2</u>		Cases, 451; deaths, 195.
Chinnampo Fusan	Apr. 1-May 31	í		
Gensan	May 1-31	î		
Seishin	Apr. 1-30	1		
Curação Ecuador:	May 29-June 4	1		Alastrim.
Guayaquil	June 1-30	2		
Egypt	May 7-July 29			Cases, 21; deaths, 3.
Alexandria	May 21-June 17	4	1	- , ,,
Cairo France	Jan. 22-Apr. 15	14	3	Chara 180
Lille	Apr. 1-June 30 July 24-30	i		Cases, 178.
Paris	May 21-June 30	11	2	
Gold Coast	Mar. 1-May 31	33	7	
Great Britain:	35 00 4 00	ļ		G 0 MOS
England and Wales Birmingham	May 22-Aug. 20	i-l		Cases, 2,591.
Bradford	Aug. 14-20	2		
Cardiff	June 19-July 2	4		
Leeds	July 17-Aug. 20	5		
Liverpool	July 17-30	1		
London Newcastle upon Tyne	May 15-June 18 June 12-Aug. 13	2		
Sheffield	June 12-Aug. 6	25		
Scotland—		1		
Dundee	May 29-July 2	. 5		
Greece Salonika	June 1-30	14	1	
Guatemala:	July 12 10		•	
Guatemala City	June 1-30		9	
luinea (French)	June 4-10	9		
ndia	Apr. 17-July 9	199		Cases, 60,217; deaths, 15,704;
Bombay	May 8-July 30	363	131 276	
Karachi	May 15-Aug. 6	10	5	
Madras	May 22-July 30	18	6	
Rangoon	May 8-July 30	169	52	
Rangoon ndia, French Settlements in ndo-China (French)	Mar. 20-June 18 Mar. 21-July 20	174	111	Casas, 314
Saigon	May 14-20	i	1	Cases, 314.
rag:		- 1	-	
Baghdad	Apr. 10-16	2 -		
Basra	Apr. 10-July 16	2	11	

Reports Received from June 25 to September 16, 1927-Continued

SMALLPOX-Continued

SMALLPOX—Continued						
Place	Date	Cases	Deaths	Remarks		
ra_1	Apr. 10-May 21	13				
[taly amaica	May 29-Inly 30			Reported as alastrim.		
apan	May 29-July 30 Apr. 3-May 7			Cases, 19.		
Nagasaki City	June 20-Aug. 7	25	6	1		
Taiwan Island	May 21-31	1				
ava:		{	l .			
Batavia	May 22-July 23	3		ŀ		
East Java and Madur	Apr. 24-July 9	12		1		
atvia	Apr. 1-30	1				
Mexico	Mar. 1-31			Deaths, 162.		
Durango	June 1-30		. 1	l		
La Oroya	Apr. 1-June 30		.	Present.		
Monterey	July 1-31	6	1 .			
San Luis Potosi	May 29-Aug. 13		. 11			
Tampico	June 1-July 31	1	2			
Torreon	Aug. 7-13	::::	. 1			
Morocco	Apr. 1-June 30	154				
Netherlands India:			ł			
Borneo—	4 01	Į.	Ì	Epidemic in two localities.		
Holoe Soengei	Apr. 21			Epidemic outbreak.		
Pasir Residency	Apr. 30-May 6 May 21-27			Do.		
Samarinda Residency	Mar. 1-May 31	2,077	513	D 0.		
Vigeria Persia:	Mai. I-May 31	2,011	1 010			
rersia: Teheran	Feb. 21-Apr. 20	i	5			
Poland	Apr. 10-July 9	17	2			
Portugal:	Apr. 10-July 8	•••	_			
Lisbon	May 29-Aug. 6	17	1			
Senegal:	May 25 Aug. 0	4.	1 -			
Medina	July 4-10	7				
Siam	Apr. 1-July 23	l		Cases, 168; deaths, 40.		
Bangkok	May 1-July 23	13	7			
Spain:	1.14, 1 041, 201111		1			
Valencia	May 29-June 4	2				
Straits Settlements	June 12-18			Cases, 3.		
Singapore	Apr. 1-June 18	7	2	•		
Sumatra:	•		1			
Medan	June 5-11	2				
Switzerland:						
Berne	June 26-July 2	1		a		
Funisia	Apr. 1-June 10 June 1-10			. Cases, 10.		
Tunis	June 1-10	1				
Union of South Africa:				0.41		
Cape Province	July 17-23			Outbreaks.		
Elliott district	July 17-23 May 11-June 10 July 3-9			Outbreaks. Do.		
Idutywa district	July 3-9			Do.		
Kalanga district	May 11-June 10			ъ.		
Transvaal— Barberton district	May 1-7			Do.		
Venezuela:	May 1-7			20.		
Maracaibo	July 12-18		1 1			
Maracarbo	July 12-10		- 1			
`	TYPHUS	FEVE	······································			
			I I			
Algeria	Apr. 21-July 20			Cases, 399; deaths, 39.		
Algiers	May 11-July 31	26				
Oran.	May 11-July 31 May 21-Aug. 10	33				
Bulgaria	Mar. 1-June 20			Cases, 206; deaths, 18.		
Sofia	June 4-Aug. 5	2		•		
bile:						
Antofagasta	Apr. 16-May 31	1				
Concepcion	May 29-June 4		1			
La Calera	Apr. 16-May 31	1				
Ligua	Mar. 16-31 Apr. 16-May 31	2		-		
Puerto Montt	Apr. 16-May 31	1				
Santiago	dol	5	1			
Talcahuano	July 10-16		1	_		
Valparaiso	Apr. 16-Aug. 6	4	1			
China:						

1

15 2 30

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Cases, 512; deaths, 42.

Manchuria-

 Chosen
 Feb. 1-May 31

 Chemulpo
 May 1-June 30

 Gensan
 -do

 Seoul
 Apr. 1-June 30

Tientsin....

Reports Received from June 25, to September 16, 1927—Continued

TYPHUS FEVER—Continued

Place	Date	Cases	Deaths	Remarks	
Czechoslovakia	Apr. 1-June 30			. Cases. 49.	
Egypt	May 28-July 29			_ Cases, 120; deaths, 18.	
Alexandria	May 21-Aug. 5	13			
Cairo	Jan. 15-Apr. 22		8		
Estonia	Apr. 1-30			. Case, 1.	
Greece	June 1-30	2		-1	
Athens	do		. ¥		
Iraq: Baghdad	Apr. 24-30.	1	1		
Irish Free State:	Apr. 24 W	1 *		-1	
Cork County	July 3-9	1	l	In urban district.	
Latvia	Apr. 1-May 31	17		In di ban district.	
Lithuania.	Apr. 1-May 31 Feb. 1-June 30	303	37	1	
Mexico	Feb. 1-Mar. 31			Deaths, 88.	
Mexico City	May 29-Aug. 6	26		Including municipalities	in
San Luis Potosi	July 31-Aug. 6	l	1		
Morocco	Apr. 1-July 10	815			
Palestine	May 24-Aug. 8			. Cases, 16.	
Haifa	do	6			
Jaffa	l Aug. 2-8	1			
Jerusalem	June 28-July 4	1		·	
Mahneim	May 17-23 July 19-25	1		In Safad district.	
Nazareth	July 19-25	1		·	
Safad	May 17-Aug. 8	10		• [
Peru: Arequipa	Amm 1 20		١.	1	
Poland	Apr. 1-30 Apr. 10-July 9	1,009	92	1 .	
Portugal:	Apr. 10-3 my 5	1,000	92	1	
Lisbon	May 29-June 4	1	1	1	
Rumania	Apr. 3-June 25	923	61	1	
Tunisia	Apr. 22-July 20		"	Cases, 158.	
Tunis	July 5-11	1		0 2000, 2001	
Turkey:	-	_			
Constantinople	May 13-19		2		
Union of South Africa	Anr 1-30			Cases, 55; deaths, 8, native.	In
Cape Province	Apr. 1-July 23 June 5-11 May 22-28	42	5	Europeans, cases, 2.	
Albany district	June 5-11			Outbreaks.	
East London	May 22-28	1		Do.	
Glen Gray district	May 1-7 June 26-July 2			Do.	
Kentani district Qumbu district	June 20-July 2			Do.	
Umzimkulu district	May 1-7			Do.	
	June 28-July 2 Apr. 1-July 9 June 5-11			Do.	
Natal Impendhle district	Tune 5-11	- 1	3	Do.	
Orange Free State	Apr. 1-July 23			D 0.	
Transvaal	Apr. 1-30	ĭ			
Johannesburg	July 3-16	18	5		
Yugoslavia	May 1-July 31			Cases, 15; deaths, 4.	
					_
	YELLOW	FEVE	R		
Dahomey (West Africa):					-
Porto Novo	July 1	1	1	In Syrian woman.	
old Coast	Apr. 1-May 31	45	20		
Liberia:			_		
Monrovia	May 29-July 8	4	5	Communication of	
enegal	May 27-July 31			Cases, 5; deaths, 2.	
Dakar	July 9	1 2			
M'Bour	Aug. 8	5	2		
Ouakam	May 27-June 19 June 2-Aug. 8	2	5 1		
St. Louis	Reported Aug. 21.	-	il		
Thies	July 10	1	il	In European.	
Tivaouane	May 27-June 8	5	5	an amopoun.	
	J. J. J. J. J. J. J. J. J. J. J. J. J.	٠,	١		