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TUBERCULOSIS AMONG THE EX-SERVICE MEN.

WITH SPECIAL REFERENCE TO ITS BEARING ON PUBLIC HEALTH.¹

By HUGH S. CUMMING, Surgeon General, United States Public Health Service.

A general impression apparently prevails among the laity that the incidence of tuberculosis was greatly increased in the United States by the World War. It is not surprising that this idea is current. Care of the disabled has naturally been a matter of general solicitude. Difficulties encountered in providing sanatorium treatment were given wide publicity and sometimes were exaggerated. Moreover, the appalling increase in tuberculosis which occurred during the war in most countries of Europe, and which still prevails in Austria and Russia, has become common knowledge. Among all those nations, including some nonbelligerents, whose food supplies were seriously affected and who felt keenly the stress of war and its results, tuberculosis increased, indeed, to an alarming extent. It is natural, therefore, although this country was fortunately spared the pinch of famine, the desolation of invasion, and many of the fears, griefs, deprivations, and other forms of stress which try the spirit, waste the body, and, therefore, pre dispose to tuberculosis, that our citizenry should anticipate an increase of tuberculosis here and, in the same pride with which they demanded a place in the fighting line, count their casualties in kind.

It may be recalled that in 1919, when making a forecast of hospital needs, it was estimated by the Public Health Service that approximately 12,000 beds would be required within two years for tuberculous veterans. It is also a fact that by the end of April, 1922, there were 11,346 tuberculous veterans hospitalized at Government expense in the United States, as well as considerable numbers receiving compensation for that disability who declined hospital care. The incidence of tuberculosis was, however, only slightly increased in the United States during the war, either among males

¹ Read before the section on preventive and industrial medicine and public health at the Seventy-Third Annual Session of the American Medical Association, St. Louis, May, 1922, and printed in the Journal of the American Medical Association, vol. 79, No. 5, July 29, 1922, pp. 370-374.

of military age or any other class of population. The forecast of hospital needs referred to above, which has proved to be approximately correct, was made merely in accordance with the known incidence of tuberculosis among the general population in the age groups concerned. A glance at the curve (Fig. 1) shows how sensitive the tuberculosis mortality is to collateral influences. The slight but perceptible rise in 1916 and 1917 is presumably due to the increase in living costs or perhaps, more exactly, the degree to which this increase exceeded that in wages or other rewards for production. To these causes must be added in 1918 that of the epidemic of influenza. There seems little doubt that these increases were not related to actual participation in the war.

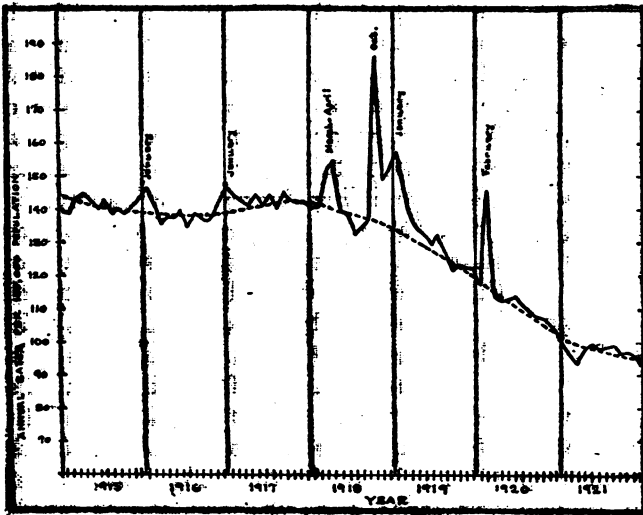


FIG. 1.—Recent decline in mortality from all forms of tuberculosis. Monthly rates from 1915 to 1921 in 24 States (in 1921, provisional data for only 15 States were available), with normal seasonal variation eliminated.

The curve (Fig. 2) comparing the mortality rates of 1915 and 1920, shows a marked postwar decline in tuberculosis mortality which is even more marked among males, including those of military age, than among females. It is, I think, generally accepted that the incidence of tuberculosis in any country, in both sexes and at every age except infancy and childhood alone, reflects with great precision the living and industrial conditions prevailing. It is therefore not strange that tuberculosis was not increased among our troops, who were generally well fed, well housed, and well clothed, or, except to a very slight degree, among the population as a whole.

The war risk insurance act of October 6, 1917, promised hospital care to disabled veterans, but made no provisions for the construc-

tion or operation of hospitals, nor did it name the agency whereby the proposed care was to be provided. It was, of course, impossible to reckon at that time with the desire which manifested itself, as soon as the armistice was signed, for discharge from military and

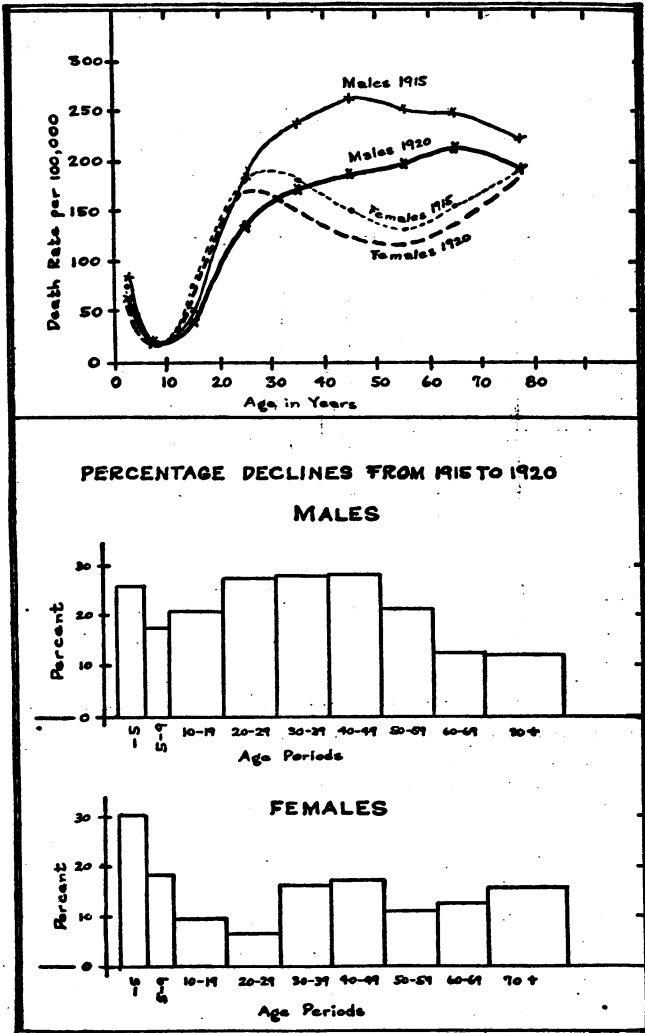


FIG. 2.—Specific death rates for all forms of tuberculosis in twenty-four registration States compared for 1915 and 1920.

naval service. This prevented extensive use of military and naval hospitals for discharged men, who usually evidenced a distaste for all things connected with military life. It was a perfectly natural reaction, considering the psychology of the situation, and one which

in no way reflects upon the excellent treatment provided by the Navy and Army hospitals.

TABLE I.—Mortality from tuberculosis in the United States, 1915 and 1920.¹

Age period (years).	Death rate per 100,000.				Per cent decrease in mortality in 1920 over 1915.	
	Males.		Females.		Males.	Females.
	1915	1920	1915	1920		
All forms:						
All ages.....	156.1	117.2	124.4	107.8	24.9	13.3
Under 5.....	84.5	42.5	77.2	53.9	26.2	30.2
5-9.....	22.6	18.6	22.9	18.7	17.7	18.3
10-19.....	49.6	39.3	76.1	68.9	20.8	9.5
20-29.....	185.3	134.5	184.3	172.2	27.8	6.6
30-39.....	240.7	173.0	183.1	152.2	28.1	16.3
40-49.....	263.9	189.0	152.4	125.6	28.4	17.6
50-59.....	252.9	198.2	134.1	119.3	21.6	11.0
60-69.....	248.4	216.6	158.7	138.7	12.8	12.6
70 and over.....	220.2	193.5	193.4	162.8	12.1	15.8
Pulmonary tuberculosis:						
All ages.....	136.0	102.9	107.5	94.1	24.3	12.5
Under 5.....	25.8	21.2	25.7	18.2	17.8	29.2
5-9.....	7.9	7.0	9.9	8.9	11.4	10.1
10-19.....	40.3	31.6	68.8	60.2	21.6	9.9
20-29.....	171.2	128.6	171.8	160.8	27.2	6.4
30-39.....	225.1	162.6	169.9	143.2	27.8	15.7
40-49.....	245.1	177.1	140.2	113.9	27.7	18.7
50-59.....	234.1	184.1	120.4	106.0	21.4	11.2
60-69.....	226.1	199.5	141.7	125.3	11.8	11.6
70 and over.....	196.3	177.8	173.9	141.5	9.4	18.6

¹ Specific death rates per hundred thousand for males and females compared for 1915 and 1920 in 24 registration States, with percentages of decrease; on revised intercensal population estimates for July 1, 1915, and July 1, 1920, but using the 1915 sex and age distribution. The 24 States are those constituting the death registration area in 1915. Acknowledgments are made to Dr. W. H. Davis, chief statistician for vital statistics, Bureau of the Census, for the use of mortality data from original tabulation sheets.

It was not, therefore, until March 3, 1919, that by act of Congress the Public Health Service was named as the principal agency whereby hospital and medical care was to be provided. The emergency was serious. To place a properly trained physician in each city or large town in all parts of the United States, to find hospital beds for the widely scattered disabled veterans who applied for examination and treatment in all parts of the United States, and to equip, man, and operate such institutions in various parts of the country as could be converted to hospital use—these were some of the urgent problems that arose. The tuberculosis patients caused considerable concern, and it was early apparent that emergency hospital provision was at once necessary. Congress in failing to act favorably on the recommendations contained in House Document No. 481, which was transmitted by the Secretary of the Treasury, December 8, 1919, reflected the idea, not wholly extinct among medical men, that permanent hospitals are not necessary for the treatment of tuberculosis. The estimates made in House Document No. 481 provided for the construction, among other institutions, of 19 hospitals for tuberculosis, with an aggregate capacity of 9,330 beds, at an approximate cost of \$32,500,000. This was for tuberculosis hospitals alone. The

plan contemplated the construction of permanent institutions located near the centers of population to be served. It visioned ample grounds, with lawns and trees, and restful environments in salubrious but not isolated places. Unfortunately, however, the treatment of tuberculosis became associated in its early history with the tent, the shack, the lean-to, with life in the open under primitive conditions. The early advice, "Go West and rough it," was recalled. It was necessary to explain again and again that a tuberculous patient needs highly specialized care, calling for modern hospital facilities. It was necessary for this conviction to find place gradually, and for public sentiment to lead the way to the necessary appropriations.

As an evidence of the difficulties encountered at one critical period, it may be mentioned that on December 24, 1919, the President approved the amendment to the war risk insurance act which increased the allowance for total temporary disability from \$30 to \$80 a month. On the same day, in anticipation of an increased number of claimants, the Public Health Service solicited the assistance of the American Legion to find additional hospital accommodations for tuberculous patients, believing that the criticism which the Government was at that time facing might be in part ameliorated or its cause mitigated by concerted effort of the comrades of those needing treatment, to find hospitals suitable for their care. The Legion in response sent out requests from its headquarters to posts in all parts of the United States, and its members cooperated with our field officers to the desired end. A glance at Figure 4 will show the extent to which contract hospitals were utilized in this very trying period. We are all familiar with the criticisms which arose concerning their use. I have no apologies to make. The institutions were representative of the medical care prevailing in the respective communities at that time. Some of the institutions were excellent; others were unsuitable and were abandoned as rapidly as their unsatisfactory condition was determined by the district inspectors detailed for the duty. Whether it would have been better for the Federal Government to arrange with State sanatoriums and those operated by other political units for the care of all tuberculous patients in this manner is open to question. The plan had many advocates among members of the National Tuberculosis Association. A plan whereby such hospitals might have been enlarged by Federal funds for tuberculous veterans was foredoomed to failure because of the distaste evidenced on every hand to the admission of veterans to any hospital which cared for free patients, or, according to the vernacular, "charity patients." Objections were made to the use of State sanatoriums, county sanatoriums, and such excellent institutions as Oak Forest in Chicago, Seaview Hospital in New York City, and the Branch Hospital in Cincinnati. There appeared, therefore, no choice but to proceed with the development

of temporary hospitals for which some funds were provided, which funds, however, according to the law, could not be used for permanent construction.

The character of the temporary Army hospitals of the cantonment type is too well known to merit a description. The widely separated, one-story wards, the connecting corridors with numerous inclines, the numerous heating units, the fire risks, the difficulty of supplying hot food, are well known. The sagging foundations, warped floors, and leaky roofs of these temporary buildings were eloquent allies at a time when it was necessary to plead for new hospitals. Some of the attacks made upon the Government, notably in the case of

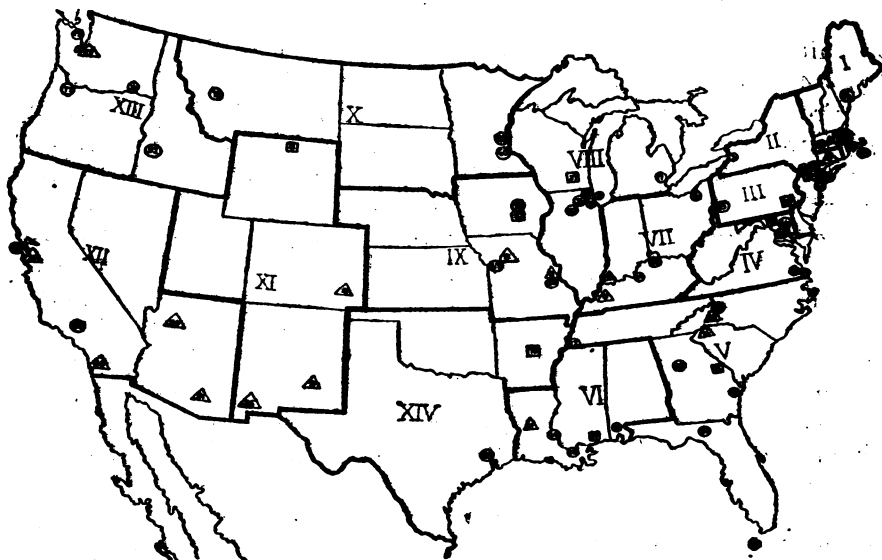


FIG. 3.—Location of United States Public Health Service Hospitals, January, 1922: Circles indicate general hospitals; triangles, tuberculosis hospitals; squares, neuropsychiatric hospitals, the numbers being definitely located in Table 3.

the Fox Hills Hospital, were, possibly, not wholly devoid of a well-meant but ill-advised effort to force the appropriation of necessary funds to build permanent institutions.

The tuberculosis hospitals taken over from the Army, in addition to those at Markleton, Pa., and Deming, N. Mex., which were abandoned as unsatisfactory as soon as more suitable hospitals had been obtained, were:

- No. 24, Palo Alto, Calif., 650 beds.
- No. 26, Greenville, S. C., 700 beds.
- No. 27, Alexandria, La., 600 beds.
- No. 41, New Haven, Conn., 500 beds.
- No. 50, Prescott, Ariz., 765 beds.
- No. 55, Fort Bayard, N. Mex., 1,120 beds.
- No. 60, Oteen, N. C., 1,100 beds.
- No. 64, Camp Kearney, Calif., 550 beds.

To supplement these, a temporary hospital of 290 beds, intended chiefly for winter use, was established at Tucson, Ariz., at Pastime Park; cottages built from salvaged lumber supplementing the existing buildings. The abandoned Indian school at Tacoma, Wash., was also converted into a temporary hospital of 278 beds. One of the difficulties in operating hospitals of this group was the lack of quarters for personnel. The Public Health Service has a corps of commissioned officers, but lacks an enlisted personnel. Its employees are all civilians who may leave at will and whose contentment is often conditioned on the presence of their families, of schools, social advantages, and other refinements of living not demanded or expected under military conditions. From the patients' point of view it must also be admitted that the gloomy outlook afforded by the war-time buildings, now 4 years old, is depressing.

From the beginning of the work by the Public Health Service the hospitalization and the transfer of patients was, so far as possible, decentralized. A disabled soldier coming under observation at any point in the field and found to be in need of hospital care was immediately offered it, if not in a hospital operated by the Government, then in the best contract hospital available. According to a custom which has prevailed in the Public Health Service for more than a hundred years, tuberculous patients are routinely admitted as a temporary measure to any of its general medical and surgical hospitals. The tuberculosis wards in our hospitals in Boston, New York, Baltimore, Chicago, and other large cities, which were important clearing stations, often contained several hundred patients each. The tuberculous patients at Fox Hills, indeed, sometimes outnumbered all others. The resolution which the American Medical Association adopted at the Boston session last year, advocating this practice for civil hospitals, has served to disarm unjust criticism and to strengthen the Government in a useful practice. Your action, therefore, wisely taken in the general interests of public health everywhere, has served the Government in a trying administrative problem.

The demand for climatic change was another heritage from an earlier generation. Tuberculous patients and their friends demanded a transfer to special climates from northern, southern, eastern, western and central portions of the United States. The spirit of restlessness engendered by the war was manifest. As a further evidence of this, a popular report is current that 25,000 tuberculous ex-soldiers are found to have migrated to Colorado alone, only 2 per cent of the hospital patients coming under observation in that State being natives of Colorado. It was necessary to refuse many unwise requests for the removal of tuberculous patients, unsuited by reasons of physical condition, from hospitals where they were under treatment to other

hospitals in the arid Southwest. So far as I am aware, however, there are no instances in which a sick man in any part of the United States was not provided with, or at least offered, hospital care, of the standard prevailing in that community, without more than a few days' delay. The most insistent demands were made for the transfer of terminal cases. "Give this dying man a chance" was a frequent expression typical of the character of requests daily received. It was exceedingly difficult and sometimes futile to attempt to explain that the importance thus attributed to climatic influence is out of harmony with modern scientific thought, nor was the problem rendered easier by the fact that large numbers of reputable physicians throughout the country appeared to entertain views long since believed obsolete.

The hospitals devoted to the care of veterans were manned almost exclusively by personnel from the military and naval forces. Medical

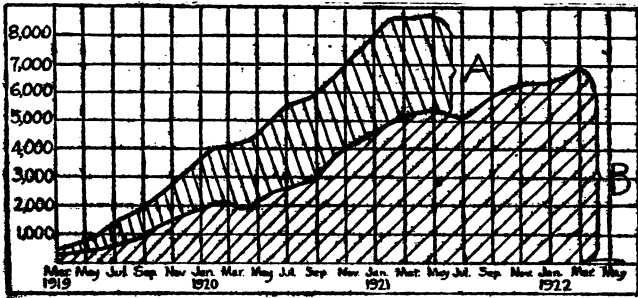


Fig. 4.—Hospital care of tuberculous veterans of the World War, U. S. Public Health Service, March, 1919, to June, 1922; patients in Army, Navy, and soldiers' home hospitals not included. A, contract and other institutions; responsibility and control transferred to the U. S. Veterans' Bureau, June, 1921. B, Public Health Service hospitals; administration of veterans' hospitals transferred to U. S. Veterans' Bureau by Executive order, April 29, 1922.

officers, nurses, reconstruction aides, dietitians, and laboratory technicians were almost without exception with military experience, many of them having served overseas. All, therefore, were well prepared to sympathize fully with the needs of their patients. The American Legion is well represented in membership among both patients and personnel, and at some of the hospitals the local post constitutes the largest in the community, and sometimes the largest in the State.

It need cause no surprise that special training in tuberculosis for officers was necessary. The lack of adequate instruction in this specialty in most medical schools is well known, while the exclusion of tuberculosis patients from general hospitals, a still all too common custom, and the practice of sending tuberculous patients "away" have combined to alienate the average physician from a knowledge of tuberculosis. The excellent Army schools in tuberculosis which

were conducted under the auspices of Col. George E. Bushnell, retired, had trained a considerable number of Army medical officers, some of whom continued on duty with the Public Health Service. With these and a few other skilled men as a nucleus, the training of a sufficient number of medical officers was undertaken to provide proper care for patients in hospitals. A summer school was conducted at Oteen, and numerous short courses in diagnosis were held at various places, every tuberculosis hospital being required to give its medical personnel a prescribed course in training which, during the last three years, has naturally been applied to a considerable number of medical officers stationed therein or assigned for the purpose. Doctor Palmer, who, together with Doctor Boswell, has consented to discuss my subject, is one of the five experts who were engaged to visit our tuberculosis hospitals to assist in establishing a suitable standard of treatment and to strengthen weak points. Since he visited more hospitals and visited them oftener than the others, he is perhaps better qualified than any other person to tell impartially, just as he told me in his official reports, the facts about the hospitals as he found them.

TABLE II.—*Hospital activities of Public Health Service*

Veterans admitted to hospital.....	264, 000
Hospital relief days.....	14, 397, 500
Outpatient (dispensary) treatments.....	2, 042, 200
Physical examinations.....	1, 459, 290

NOTE.—The normal hospital operations of the Public Health Service, in providing relief for merchant seamen and its other beneficiaries in the 25 marine hospitals still remaining, amounted last year (one year only) to the following:

Old line patients admitted to hospital.....	44, 756
Hospital relief days.....	1, 121, 171
Physical examinations.....	79, 759

It is not possible to tabulate the tuberculosis patients with respect to the stage of disease in which they were admitted, these figures not being available at the present time. Many were admitted with doubtful diagnosis, claiming compensation for and giving a history of symptoms which indicated tuberculosis. Some of these had been exposed to war gases or were convalescent from epidemic pneumonia. In all, approximately 65,000 veterans were admitted to hospitals, including both Government and civil institutions, up to May 1 of this year. It early became necessary to differentiate between patients having tuberculosis for which they required treatment and those with healed or quiescent tuberculosis which did not require hospital care. Numbers of patients were discharged within a few weeks after admission, a board of properly qualified medical officers having determined that they were nontuberculous, in a clinical sense.

TABLE 3.—*Location of United States Public Health Service Hospitals.*

No.	No.
2. Boston.	49. Philadelphia.
3. Buffalo.	50. Prescott, Ariz.
5. Chicago.	51. Tucson, Ariz.
6. Cleveland.	52. Boise, Idaho.
7. Detroit.	53. Dwight, Ill.
8. Evansville, Ind.	54. Arrowhead Springs, Calif.
9. Fort Stanton, N. Mex.	55. Fort Bayard, N. Mex.
10. Key West, Fla.	56. Baltimore.
11. Louisville, Ky.	57. Knoxville, Iowa.
12. Memphis, Tenn.	59. Tacoma, Wash.
13. Mobile, Ala.	60. Oteen, N. C.
14. New Orleans.	61. Staten Island, N. Y.
15. Pittsburgh.	62. Augusta, Ga.
16. Portland, Me.	63. Lake City, Fla.
17. Port Townsend, Wash.	64. Camp Kearney, Calif.
18. St. Louis.	65. St. Paul.
19. San Francisco.	66. Carville, La.
20. Savannah, Ga.	67. Kansas City, Mo.
21. Stapleton, N. Y.	68. Minneapolis.
22. Vineyard Haven, Mass.	69. Fort Thomas, Ky.
24. Palo Alto, Calif.	70. New York.
25. Houston, Tex.	71. Sterling Junction, Mass.
26. Greenville, S. C.	72. Helena, Mont.
27. Alexandria, La.	73. Chicago.
29. Norfolk, Va.	74. Gulfport, Miss.
30. Chicago.	75. Colfax, Iowa.
32. Washington, D. C.	76. Maywood, Ill.
34. East Norfolk, Mass.	77. Portland, Oreg.
35. St. Louis.	78. North Little Rock, Ark.
36. Boston.	*. Sheridan, Wyo.
37. Waukesha, Wis.	*. Dawson Springs, Ky.
38. New York.	*. Walla Walla, Wash.
41. New Haven, Conn.	*. Excelsior Springs, Mo.
42. Porryville, Md.	*. Las Animas, Colo.
43. Ellis Island, N. Y.	*. (Bronx) New York.
44. West Roxbury, Mass.	*. Norfolk, Va.
45. Biltmore, N. C.	*. Rutland, Mass.
48. Atlanta, Ga.	

*The asterisks and the numbers are reproduced on the map (Fig. 3).

While final statistics have not been published, the general impression prevails that war gases were not an important cause of clinical tuberculosis. In this connection, the following observation made by the Surgeon General of the Army in a recent report is pertinent:

In the year 1918 there were one and one-half times as many cases of tuberculosis per thousand among all troops in France as there were among those gassed, and in 1919 there were more than one and three-fourths times as many tuberculosis cases per thousand among all troops as there were among the gassed troops.

The mental attitude of patients is indicated in some measure by the fact that out of 9,200 patients discharged from service hospitals between July 1, 1921, and May 1, 1922, 3,132, or more than one-third, left against advice and without permission, treatment not having been completed. Those discharged for disciplinary reasons during the same period numbered 189. Many of these patients, presumably, sought readmission to other hospitals in accordance with the spirit of unrest which still prevails, although to a less degree than formerly, among ex-service men. The frequency of departures from the hospital against medical advice has been ascribed in part by experienced hospital executives to the custom whereby the Veterans' Bureau provides transportation home for those so departing for the first time. Homesick men, at some distance from their friends, and finding sanatorium regimen irksome, are tempted to take advantage of this opportunity to return to their families. Men also who have at their own expense unwisely sought climatic treatment at distant places may enter the nearest Government hospital, even for the express purpose of claiming transportation home. It is somewhat significant that the small temporary hospital at Tucson, Ariz., with a capacity of less than 300 beds, discharged 488 against advice between March 15, 1920, and April 23, 1922, which is more than half of its total discharges during that period. This hospital is one to which, with few exceptions, no transfers are made by the Government, as it is merely an emergency hospital for ex-service men found in Tucson in need of medical care.

Special treatments, including induced pneumothorax, heliotherapy, both natural and artificial, occupational therapy, including physiotherapy, and vocational training as applied therapeutic exercise, were encouraged in all the tuberculosis hospitals. Some of the best results in tuberculous laryngitis were obtained at hospitals in the arid Southwest, with sunlight and silence. Some research work related to the presence of small pneumothorax as a common but hitherto unrecognized accompaniment of active pulmonary tuberculosis was carried out at New Haven by Surgeons Barlow and Thompson, the results of which will shortly be published as a bulletin of the Hygienic Laboratory. The number of cases of bone and joint tuberculosis coming under observation has been rather surprising, approximately 3 per cent of tuberculous patients admitted to hospital having non-pulmonary disease. Of these, approximately two-thirds had involvement of the bones and joints.

Remembering that approximately one-third of all veteran hospital patients are the tuberculous, an idea of the operations relating to this class may be obtained from the summary of the total hospital activities of the Public Health Service during the three years since the work was undertaken, given in Table II.

The medical work which the Public Health Service was called on to perform for the Bureau of War Risk Insurance and its successor, the United States Veterans' Bureau, is now history. The field organization, including the 14 district supervisors' offices and their sub-agencies, reaching practically into every county of the United States, was turned over in June, 1921. The control of contract hospitals was relinquished also at that time. The Veterans' Bureau, having further perfected its organization, finally felt itself ready to assume the administration of the veterans' hospitals, which were, accordingly, turned over to Director Forbes by Executive order, May 29, 1922. This transfer consisted of 57 hospitals, with 17,500 beds, 13,057 patients (of whom 5,271 were tuberculous), and a personnel of 11,347, including 925 physicians and dentists, 1,425 nurses, 425 reconstruction aides, and 110 dietitians. I take this occasion to pay public tribute, before a body which has ever honored fidelity, to the professional men and women who, having been identified with the organization and operation of these hospitals for many months during very trying periods, were transferred from the Public Health Service to the Veterans' Bureau for continued duty of the same character. Their loyalty has been instant and unvarying, their patience untiring, their zeal unflagging, and their devotion unfailing, in the cause of the disabled veteran and the Government, whose obligations they strive to fulfill.

SEPARATION OF TOXIC AND NONTOXIC CELLS FROM CULTURES OF AN ANAEROBE ISOLATED FROM LARVÆ OF THE GREEN FLY.

By **IDA A. BENGTSON**, Assistant Bacteriologist, United States Public Health Service.

In attempting to obtain an unquestionably pure culture of the spore-forming anaerobe recently isolated from larvæ of a species of the green fly¹ the single cell method of Barber was employed.

The culture used was one developed from a well isolated single colony, fished from a deep liver-agar culture into meat medium, which consisted of one part of chopped meat and two parts of water, the whole adjusted to a reaction of p_H 8.0. This culture was toxic, causing the death of mice in about four hours, in a dose of 0.2 c. c.

A single cell (spore) culture derived from this culture was found to be nontoxic for mice, though the appearance of the growth in meat medium was identical with that of the growth previously obtained. Two other single cells (spores) were isolated; one was found to be toxic and the other nontoxic. These three cultures were designated *a*, *b*, *c*, *a* and *c* being nontoxic and *b* toxic.

A comparison was made of the morphological and cultural characteristics of the three cultures. The media used included meat medium, litmus milk, liver broth, and ordinary glucose broth in fermentation tubes. Two subcultures of each culture were used. Morphologically, all the cultures were identical, consisting of rods with terminal spores.

All of the cultures showed a similar appearance in the meat medium. The growth in this medium, in contrast to that of single cell cultures of Types A and B of the botulism organism, is distinguished by the absence of any evidence of proteolysis. There is no reduction in the volume of meat, no darkening or blackening of the meat, no comminution of the particles of meat, no darkening of the supernatant broth, and no pronounced odor. A slight acidity was produced in litmus milk, but no coagulation or digestion of casein occurred. All of the cultures failed to grow in glucose broth fermentation tubes. In the liver broth fermentation tubes, culture *a* failed to grow. One of the subcultures of *b* showed a granular growth within 24 hours; but this was precipitated on opening the tube and making a smear, and no further growth occurred. The growths of the second subculture of *b* (toxic) and the two subcultures of *c* (nontoxic) were similar and unusual in that there was no evidence of growth in any of the tubes during the first 10 days. After this time a granular growth appeared. The cultures were left undisturbed and continued to grow, and all had produced gas to the amount of 20 to 25 per cent at the end of two weeks.

The similarity in morphology and in cultural reactions and the unusual behavior in the liver broth indicate the essential cultural identity of the toxic and nontoxic types.

Further single cell isolations were made from cultures *b* (toxic) and *c* (nontoxic). From *b*, two nontoxic cultures (*ba* and *bb*) and two toxic (*bc* and *bd*) were obtained. From *c*, eleven nontoxic cultures have thus far been obtained. From culture *bc*, 17 single cell isolations have been made, 15 of these being toxic and 2 nontoxic. The results are graphically presented in the accompanying diagram.

The two kinds of cultures have remained true to type, with one possible exception. Three months after the beginning of this work all single-cell cultures were retested on mice with the results given below, the subscript figure representing the number of the transplant in meat media. Toxicity tests throughout have been made by inoculation of 0.2 c. c. of the culture intraperitoneally into mice. Characteristic symptoms usually develop within an hour or two and death occurs soon thereafter.

$a_0(N)$ S.	$c(N)$ S.
$b_0(T)$ +3 hrs.	
$ba_1(N)$ S.	$bc_1(T)$ +2½ hrs.
$bb_1(N)$ S.	$bd_1(T)$ S. (bd_1 , bd_2 , bd_3 , all toxic).
$bc-a_1(T)$ +5 hrs.	$bc-j_3(T)$ +3½ hrs.
$bc-b_1(T)$ +2 hrs.	$bc-k_3(T)$ +2 hrs.
$bc-c_1(T)$ +2 hrs.	$bc-l_3(T)$ +7 hrs.
$bc-d_1(T)$ +7 hrs.	$bc-m_3(T)$ +2 hrs.
$bc-e_1(T)$ +3 hrs.	$bc-n_3(T)$ +1 hr.
$bc-f_1(T)$ +4½ hrs.	$bc-o_3(T)$ +2 hrs.
$bc-g_1(T)$ +3½ hrs.	$bc-p_3(N)$ S.
$bc-h_1(N)$ S.	$bc-q_3(T)$ +2½ hrs.
$bc-i_1(T)$ +3½ hrs.	
$ca_2(N)$ S.	$cd_5(N)$ S.
$cb_2(N)$ S.	$ce_5(N)$ S.
$cc_2(N)$ S.	

S=survived. + =died (hrs.).

All of the cultures except one gave results the same as when first isolated. The culture bd originally toxic had become nontoxic, though tests with cultures incubated for a longer period showed a low toxicity, the death of mice occurring after a period of delay.

All cultures, including six more single-cell cultures isolated from the nontoxic culture c , were again tested on mice a month later, and in this case the results were consistent throughout with those obtained when the single-cell isolations were first made, the culture bd proving fatal to mice in seven hours.

The study is of interest in that it has been demonstrated that certain individuals in cultures originally toxic may apparently spontaneously lose their property of producing toxin. Just what factors are concerned in this phenomenon are problematical. A slight difference in the composition or reaction of the medium suggests itself as a possible explanation; but successive transplants of nontoxic cultures have always proved nontoxic, and it thus appears that once a culture loses its property of producing toxin it is not regained, regardless of any slight difference in the medium. The passage of the cultures through fly larvæ (*Lucilia sericata*) failed to change the toxic properties of the two types, all toxic cultures remaining toxic

and all the nontoxic cultures remaining nontoxic at the end of the experiment. The results suggest the possibility of the transformation of toxic cultures of other toxin-producing anaerobes, such as the organisms of tetanus and of botulism, Types A and B, into nontoxic types.

MOSQUITO CONTROL AT TRINIDAD ASPHALT LAKE, BRITISH WEST INDIES.

According to reports made by the American consul at Trinidad, British West Indies, one of the most serious difficulties in the production of asphalt at the famous Trinidad Lake, and also with petroleum developments in the immediate vicinity, has been the high incidence of malaria. Conditions at the lake are extremely favorable for mosquito breeding. The asphalt lake is about 20 feet below the level of the surrounding ground surface, and is gradually being lowered by the mining operations, affording a natural catchment area for rain water, accumulations of which are found between the mound-shaped masses of asphalt on the lake and in "pitch holes," "pitch cones," and grassy bottomed pools and drains adjacent to the lake.

It has been found difficult both to drain off the water and to fill up the water holes. Ordinary dug drains are soon refilled by the slowly moving currents of asphalt; and if holes are filled, the material is soon drawn down underneath the surface. Electrically driven pumps are used to pump off water that is drained into a sump at one edge of the lake. These drains connect with the pits from which the asphalt is taken, but within a few days they close in and become flush with the surface of the lake.

During the dry season, from February to May, the ordinary roadside drains in the country about the lake tend to dry up, but breeding places for mosquitoes are perpetuated in pitch holes and seepages, a large number of which are found within a mile of the lake. Sometimes a "pitch cone" will develop within a few hours, and, expanding under the pressure of gas, finally bursts, leaving a depression which holds water.

Owing to the heretofore ineffectual drainage, about the only check to mosquito propagation has been that resulting from the presence of several varieties of larvæ-eating fish which are found in large numbers in the water holes. For a number of years a large asphalt company operating at the lake has made serious attempt at mosquito control, adopting remedial measures that seemed practicable, including drains to carry off the rainfall, the spraying of pools with crude oil, keeping the brush and grass cut, and screening the bungalows of the employees. In 1919 the company placed a medical officer in

charge of mosquito-control work in the district under the company's jurisdiction. All drains were cleaned of vegetation as far as possible; but it was found that the work of keeping the drains in good condition was expensive, owing to the luxuriant growth of vegetation during the rainy season and the scouring action of the tropical rains, eroding the sides and bottoms of the drains. Crude-oil spray was used on pools, but was not found satisfactory as the film was broken up by the wind and rainfall.

Finally an ingenious and successful method was devised of lining the sides and bottoms of the drains in a manner that prevented the growth of vegetation and resisted the scouring action of the heavy rains. The method was as follows:

The drain was cleaned of vegetable matter, and liquid asphalt was poured on the sides and bottom. Sand was then sifted over the asphalt, about 1 cubic foot to 8 square yards. A piece of oily waste was placed at one end of the drain and ignited. Oil was then sprayed on by means of a hand pump as the fire spread along the course of the drain, the liquid asphalt burning with intense heat. The heating of the liquid asphalt and sand to a high temperature gave a hard asphalt wearing surface on the sides and bottom of the drain.

The work of lining the drains is done during the dry season.

The approximate cost of lining is 14½ to 20 cents per square yard.

The benefits derived from the drains made by the improved method are shown in the great reduction in the malaria rate, which dropped, in the districts in which the work was done, from 798 per 1,000 employees in 1920 to 265 in 1921. In the village of La Brea, over which the asphalt company has no control, the malaria case rate was 602 in 1920 and 590 in 1921, a slight reduction in 1921, which may or may not have resulted from the work done in the other localities.

MALARIA INCIDENCE AMONG THE EMPLOYEES OF THE PANAMA CANAL.

In view of the fact that there have appeared recently in the public press, inaccurate statements regarding the incidence of malaria among the employees of the Panama Canal, there is printed below a table giving the monthly incidence rates for the years 1918-1921, and for January to July, 1922. The data were furnished by the chief quarantine officer of the Panama Canal.

Malaria incidence (monthly rates) per 1,000 employees of the Panama Canal.

Month.	Year.				
	1918	1919	1920	1921	1922
January.....	2.53	2.95	2.62	1.52	1.08
February.....	2.54	3.57	1.51	1.21	1.29
March.....	2.03	4.34	1.67	1.19	.86
April.....	2.24	1.66	.22	.37	.22
May.....	1.86	2.72	.36	.72	1.65
June.....	1.50	3.53	2.44	1.69	1.96
July.....	1.66	7.04	1.97	1.89	2.21
August.....	1.93	3.15	2.75	1.87	.....
September.....	.98	2.06	2.81	1.13	.....
October.....	.76	1.03	2.36	1.01	.....
November.....	1.51	1.48	1.25	.88	.....
December.....	3.40	2.00	1.17	1.37	.....

HEALTH OFFICER LIABLE FOR INCONSIDERATE TREATMENT OF PATIENT REMOVED TO ISOLATION HOSPITAL.

The Supreme Court of Kansas has recently affirmed a judgment for actual and punitive damages against a local health officer for inhuman and inconsiderate treatment of a patient quarantined in an isolation hospital.¹ The patient brought an action for damages against the health officer, charging that official with gross and wanton negligence and carelessness in the performance of his duties. The supreme court in its opinion stated as follows:

A health officer, while required to obey his lawful orders and perform his official duty, is never excused for wanton conduct and inhuman treatment to patients suffering from serious illness, * * *

* * * Of course, in removing her he [the health officer] was acting in a governmental capacity, but persons who act in that capacity are required to treat other human beings in a reasonably humane and considerate manner. The law no less than humanity requires humane and decent treatment of those who must be segregated from their usual conveniences and friends, and whoever acts with utter disregard of this requirement renders himself liable. * * *

DEATHS DURING WEEK ENDED SEPTEMBER 2, 1922.

Summary of information received by telegraph from industrial insurance companies for week ended September 2, 1922, and corresponding week 1921. (From the Weekly Health Index, September 6, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Week ended Sept. 2, 1922.	Corresponding week 1921.
Policies in force.....	50, 246, 953	46, 081, 835
Number of death claims.....	7, 043	6, 270
Death claims per 1,000 policies in force, annual rate.....	7.3	7.4

¹ *Moody v. Wickersham*, 207 Pac. 847.

Deaths from all causes in certain large cities of the United States during the week ended September 2, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, September 6, 1922, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population July 1, 1922.	Week ended Sept. 2, 1922.		Annual death rate per 1,000, corresponding week 1921.	Deaths under 1 year.		Infant mortality rate, week ended Sept. 2, 1922. ³
		Total deaths.	Death rate. ¹		Week ended Sept. 2, 1922.	Corresponding week 1921.	
Total.....	27,521,245	5,328	10.1	11.0	877	1,030	.....
Akron, Ohio.....	208,436	20	5.0	8.6	5	14	53
Albany, N. Y.....	116,223	28	12.6	12.2	3	2	67
Atlanta, Ga.....	220,047	65	15.4	14.3	10	16	.....
Baltimore, Md.....	762,222	165	11.3	12.8	39	19	110
Birmingham, Ala.....	191,017	51	13.9	12.3	7	6	.....
Boston, Mass.....	734,017	185	12.6	11.8	36	38	96
Bridgeport, Conn.....	143,555	20	7.3	8.7	1	4	12
Buffalo, N. Y.....	528,163	101	10.0	12.4	31	37	122
Cambridge, Mass.....	110,944	25	11.8	11.3	6	1	110
Camden, N. J.....	121,915	34	14.5	11.3	7	5	107
Chicago, Ill.....	2,838,288	506	9.3	10.0	84	101	.....
Cleveland, Ohio.....	854,008	124	7.6	9.6	25	40	64
Columbus, Ohio.....	253,455	57	11.7	12.8	8	8	84
Dallas, Tex.....	171,974	37	11.2	13.6	4	6	.....
Dayton, Ohio.....	161,524	29	9.3	15.2	2	6	34
Denver, Colo.....	267,501	58	10.9	13.5	7	11	.....
Detroit, Mich.....	938,878	175	9.2	10.4	46	14	80
Fall River, Mass.....	120,790	32	13.8	16.4	9	14	126
Fort Worth, Tex.....	114,717	28	12.7	.....	4	4	.....
Grand Rapids, Mich.....	143,572	25	9.1	8.9	7	6	117
Houston, Tex.....	150,087	40	13.9	7.6	8	4	.....
Indianapolis, Ind.....	333,257	69	10.8	11.8	7	12	53
Jersey City, N. J.....	305,911	48	7.8	11.0	15	14	96
Kansas City, Kans.....	113,601	36	16.5	9.5	6	2	139
Kansas City, Mo.....	343,988	85	12.9	13.0	9	11	.....
Los Angeles, Calif.....	634,866	177	14.5	13.9	29	13	120
Louisville, Ky.....	236,877	53	11.7	13.3	4	6	43
Lowell, Mass.....	114,423	24	10.9	11.0	4	7	67
Memphis, Tenn.....	167,862	56	17.4	12.9	9	4	.....
Milwaukee, Wis.....	476,603	75	8.2	10.6	13	24	64
Minneapolis, Minn.....	400,970	64	8.3	8.9	9	13	49
Nashville, Tenn.....	122,832	38	14.0	15.0	4	5	.....
New Bedford, Mass.....	127,542	30	12.3	14.6	12	15	178
New Haven, Conn.....	169,987	19	5.8	10.0	3	9	37
New Orleans, La.....	399,616	108	14.1	14.3	16	16	.....
New York, N. Y.....	5,839,746	987	8.8	10.2	152	210	59
Newark, N. J.....	421,792	76	9.1	9.7	14	16	62
Norfolk, Va.....	124,915	23	9.6	14.6	2	3	35
Oakland, Calif.....	283,279	43	9.6	8.5	5	7	63
Omaha, Nebr.....	200,739	35	9.1	15.1	2	2	22
Paterson, N. J.....	138,521	23	8.7	14.0	3	6	46
Philadelphia, Pa.....	1,894,500	366	10.1	10.9	54	76	64
Pittsburgh, Pa.....	607,902	123	10.6	12.6	23	39	74
Portland, Oreg.....	269,240	39	7.6	9.6	3	2	30
Providence, R. I.....	241,011	58	12.5	12.2	12	8	95
Richmond, Va.....	178,365	55	16.1	11.3	9	11	110
Rochester, N. Y.....	311,548	51	8.5	11.3	7	10	54
St. Louis, Mo.....	795,098	141	9.2	10.7	10	12	.....
St. Paul, Minn.....	239,836	50	10.9	10.7	7	6	68
Salt Lake City, Utah.....	123,918	21	8.8	14.6	4	5	60
San Antonio, Tex.....	178,056	42	12.3	.....	9	.....	.....
San Francisco, Calif.....	529,792	120	11.8	11.0	14	5	81
Seattle, Wash.....	315,312	51	8.4	7.2	2	1	17
Spokane, Wash.....	104,445	13	6.5	11.5	2	3	43
Springfield, Mass.....	140,053	23	10.4	10.7	7	8	104
Syracuse, N. Y.....	181,012	43	12.4	13.5	5	10	60
Toledo, Ohio.....	280,717	44	8.8	9.9	8	12	78
Trenton, N. J.....	125,075	39	16.3	12.3	5	8	77
Washington, D. C.....	347,571	105	12.5	12.3	16	14	92
Worcester, Mass.....	188,449	43	11.9	13.5	8	6	87
Yonkers, N. Y.....	105,422	10	4.9	10.1	1	2	21
Youngstown, Ohio.....	144,970	22	7.9	10.1	4	8	53

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cities left blank are not in the registration area for births.

³ Enumerated population Jan. 1, 1920.

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended September 9, 1922.

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

ALABAMA.		Cases.	COLORADO.	
			(Exclusive of Denver.)	
				Cases.
Dengue.....		1	Chicken pox.....	4
Diphtheria.....		48	Diphtheria.....	5
Hookworm disease.....		14	Jaundice (infectious).....	2
Malaria.....		50	Measles.....	2
Pellagra.....		1	Mumps.....	1
Polioomyelitis.....		1	Poliomyelitis.....	1
Scarlet fever.....		26	Scarlet fever.....	3
Tuberculosis.....		22	Tuberculosis.....	53
Typhoid fever.....		40	Typhoid fever.....	16
			Whooping cough.....	7
ARKANSAS.			CONNECTICUT.	
Chicken pox.....		3	Chicken pox.....	6
Diphtheria.....		14	Diphtheria.....	21
Hookworm disease.....		2	Influenza.....	4
Influenza.....		2	Measles.....	3
Malaria.....		193	Pneumonia (lobar).....	3
Measles.....		2	Polioomyelitis.....	3
Pellagra.....		8	Scarlet fever.....	21
Scarlet fever.....		9	Smallpox.....	1
Tuberculosis.....		20	Tetanus.....	1
Typhoid fever.....		42	Tuberculosis (all forms).....	26
Whooping cough.....		27	Typhoid fever.....	9
			Whooping cough.....	27
CALIFORNIA.			FLORIDA.	
Cerebrospinal meningitis—Inyo County.....		1	Dengue.....	236
Diphtheria.....		71	Diphtheria.....	19
Glanders—Santa Clara County.....		1	Influenza.....	10
Influenza.....		2	Malaria.....	14
Leprosy:			Pneumonia.....	3
Alameda County.....		1	Smallpox.....	3
King City.....		1	Trachoma.....	1
Los Angeles.....		1	Typhoid fever.....	5
Montarey County.....		1		
San Joaquin County.....		1	GEORGIA.	
Lethargic encephalitis—Visalia.....		1	Chicken pox.....	1
Measles.....		5	Dengue.....	188
Smallpox.....		3		
Typhoid fever.....		15		

GEORGIA—continued.		Cases.	KANSAS—continued.		Cases.
Diphtheria.....		112	Measles.....		6
Dysentery (amebic).....		1	Mumps.....		3
Hookworm disease.....		20	Pneumonia.....		9
Influenza.....		19	Poliomyelitis.....		1
Malaria.....		67	Scarlet fever.....		62
Mumps.....		1	Smallpox.....		2
Pneumonia.....		1	Tuberculosis.....		31
Scarlet fever.....		20	Typhoid fever.....		36
Septic sore throat.....		5	Whooping cough.....		46
Smallpox.....		2			
Tuberculosis (pulmonary).....		7	LOUISIANA.		
Typhoid fever.....		26	Dengue.....		134
Whooping cough.....		5	Diphtheria.....		14
			Malaria.....		34
ILLINOIS.			Scarlet fever.....		4
Cerebrospinal meningitis:			Typhoid fever.....		26
McLean County.....		1			
Rock Island County.....		1	MAINE.		
Winnebago County.....		1	Chicken pox.....		3
Diphtheria:			Diphtheria.....		14
Chicago.....		74	Measles.....		2
Scattering.....		106	Scarlet fever.....		26
Influenza.....		4	Tuberculosis.....		5
Pneumonia.....		74	Typhoid fever.....		9
Poliomyelitis:			Whooping cough.....		5
Bond County.....		1			
Chicago.....		3	MARYLAND. ¹		
Cook County.....		1	Chicken pox.....		5
Crawford County.....		1	Diarrhea enteritis.....		8
Douglas County.....		1	Diphtheria.....		34
Henry County.....		1	Dysentery.....		7
Kane County.....		1	Influenza.....		5
Madison County.....		1	Malaria.....		9
Scarlet fever:			Measles.....		4
Chicago.....		33	Mumps.....		5
De Kalb County.....		10	Paratyphoid fever.....		1
Winnebago County.....		11	Pneumonia (all forms).....		30
Scattering.....		82	Poliomyelitis.....		2
Smallpox.....		3	Scarlet fever.....		17
Typhoid fever:			Septic sore throat.....		2
Chicago.....		8	Tuberculosis.....		26
Scattering.....		85	Typhoid fever.....		40
Whooping cough.....		238	Whooping cough.....		25
INDIANA.			MASSACHUSETTS.		
Diphtheria.....		52	Cerebrospinal meningitis.....		3
Poliomyelitis:			Chicken pox.....		14
Delaware County.....		1	Conjunctivitis (suppurative).....		7
St. Joseph County.....		1	Diphtheria.....		104
Scarlet fever.....		47	German measles.....		1
Smallpox.....		12	Hookworm disease.....		4
Typhoid fever.....		29	Influenza.....		5
			Lethargic encephalitis.....		1
IOWA.			Malaria.....		1
Diphtheria.....		32	Measles.....		38
Scarlet fever.....		26	Mumps.....		12
Smallpox.....		1	Ophthalmia neonatorum.....		15
Typhoid fever.....		7	Pneumonia (lobar).....		20
			Poliomyelitis.....		19
KANSAS.			Scarlet fever.....		55
Cerebrospinal meningitis.....		2	Tetanus.....		2
Chicken pox.....		1	Trachoma.....		2
Dengue.....		1	Tuberculosis (all forms).....		136
Diphtheria.....		52	Typhoid fever.....		26
German measles.....		2	Whooping cough.....		115
Influenza.....		2			

¹ Week ended Friday.

MINNESOTA.		Cases.	NEW YORK—continued.		Cases.
Chicken pox.....		1	Scarlet fever.....		106
Diphtheria.....		58	Tetanus.....		1
Measles.....		5	Typhoid fever.....		26
Pneumonia.....		1	Whooping cough.....		219
Poliomyelitis.....		6			
Scarlet fever.....		69	NORTH CAROLINA.		
Smallpox.....		11	Cerebrospinal meningitis.....		3
Tuberculosis.....		64	Chicken pox.....		7
Typhoid fever.....		9	Diphtheria.....		403
			German measles.....		3
MISSISSIPPI.			Lethargic encephalitis.....		1
Cerebrospinal meningitis.....		1	Measles.....		11
Diphtheria.....		54	Scarlet fever.....		96
Scarlet fever.....		12	Septic sore throat.....		9
Smallpox.....		1	Smallpox.....		6
Typhoid fever.....		29	Typhoid fever.....		91
			Whooping cough.....		91
MONTANA.					
Diphtheria.....		8	OREGON.		
Poliomyelitis.....		4	Diphtheria.....		4
Scarlet fever.....		2	Measles.....		2
Septic sore throat.....		1	Pneumonia.....		24
Smallpox.....		2	Scarlet fever.....		2
Typhoid fever.....		3	Smallpox.....		5
			Tuberculosis.....		26
NEBRASKA.			Typhoid fever:		
Chicken pox.....		1	Union County.....		8
Diphtheria.....		3	Scattering.....		3
Measles.....		6			
Mumps.....		2	SOUTH DAKOTA.		
Pneumonia.....		1	Cerebrospinal meningitis.....		1
Scarlet fever.....		5	Diphtheria.....		10
Smallpox.....		1	Measles.....		1
Typhoid fever.....		7	Poliomyelitis.....		2
Whooping cough.....		2	Scarlet fever.....		8
			Tuberculosis.....		6
			Typhoid fever.....		4
NEW JERSEY.					
Chicken pox.....		6	TEXAS.		
Diphtheria.....		79	Dengue.....		305
Dysentery.....		1	Diphtheria.....		26
Influenza.....		3	Pellagra.....		12
Malaria.....		1	Pneumonia.....		8
Measles.....		37	Scarlet fever.....		13
Pneumonia.....		16	Smallpox.....		4
Poliomyelitis.....		1	Typhoid fever.....		59
Scarlet fever.....		36			
Typhoid fever.....		15	VERMONT.		
Whooping cough.....		100	Chicken pox.....		2
			Measles.....		1
			Scarlet fever.....		9
			Typhoid fever.....		1
			Whooping cough.....		16
NEW MEXICO.					
Chicken pox.....		3	WASHINGTON.		
Diphtheria.....		17	Chicken pox.....		8
Pneumonia.....		1	Diphtheria.....		8
Scarlet fever.....		1	Measles.....		4
Tuberculosis.....		23	Mumps.....		6
Typhoid fever.....		12	Pneumonia.....		2
Whooping cough.....		1	Scarlet fever.....		9
			Smallpox.....		1
			Tuberculosis.....		45
NEW YORK.			Typhoid fever:		
(Exclusive of New York City.)			Camas.....		13
Cerebrospinal meningitis.....		5	Scattering.....		18
Diphtheria.....		89	Whooping cough.....		48
Influenza.....		2			
Measles.....		46			
Pneumonia.....		51			
Poliomyelitis.....		33			

¹ Deaths.

WEST VIRGINIA.		Cases.	WISCONSIN—continued.		Cases.
Diphtheria.....		8	Scattering—Continued.		
Scarlet fever.....		15	Lethargic encephalitis.....		1
Typhoid fever.....		6	Measles.....		27
WISCONSIN.			Poliomyelitis.....		6
Milwaukee:			Scarlet fever.....		32
Chicken pox.....		2	Smallpox.....		4
Diphtheria.....		5	Tuberculosis.....		17
Measles.....		10	Typhoid fever.....		10
Pneumonia.....		3	Whooping cough.....		96
Poliomyelitis.....		1	WYOMING.		
Scarlet fever.....		10	Pneumonia.....		1
Smallpox.....		1	Rocky Mountain spotted or tick fever—Cop- verse.....		1
Tuberculosis.....		16	Scarlet fever.....		2
Typhoid fever.....		1	Smallpox.....		2
Whooping cough.....		34	Tuberculosis.....		1
Scattering:			Typhoid fever.....		2
Cerebrospinal meningitis.....		3			
Chicken pox.....		7			
Diphtheria.....		23			

Delayed Report for Week Ended September 2, 1922.

KENTUCKY.		Cases.	KENTUCKY—continued.		Cases.
Cerebrospinal meningitis:			Scarlet fever.....		18
Jefferson County.....		3	Septic sore throat.....		4
Perry County.....		1	Smallpox—Knox County.....		14
Rowan County.....		1	Tetanus.....		1
Chicken pox.....		1	Trachoma.....		145
Diphtheria:			Tuberculosis.....		68
Jefferson County.....		12	Typhoid fever:		
Laurel County.....		9	Jefferson County.....		16
Pike County.....		14	Laurel County.....		11
Scattering.....		56	Marion County.....		12
Dysentery.....		14	Perry County.....		8
Influenza.....		8	Scattering.....		69
Malaria.....		4	Vincent's angina.....		2
Measles.....		12	Whooping cough.....		21
Pneumonia.....		18			

SUMMARY OF CASES REPORTED MONTHLY BY STATES.

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

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>August, 1922.</i>										
Connecticut.....	12	97	3	3	131	.....	9	65	1	57
District of Columbia.....	23	23	.....	.....	9	.....	.....	12	.....	24
Massachusetts.....	6	482	7	2	338	1	55	210	.....	101

¹ Including many cases of long standing.

RECIPROCAL NOTIFICATION.

Connecticut—August, 1922.

Cases of communicable diseases referred during August, 1922, to other State health departments by department of health of the State of Connecticut.

Disease and locality of notification.	Referred to health authority of—	Why referred.
Cerebrospinal meningitis: Hebron, Conn.....	State department of health, Albany, N. Y.	Onset of disease while en route from Brooklyn, N. Y., to Hebron, Conn. Fatal case.
Diphtheria: East Haddam, Conn.....	do.....	Throat culture was reported positive after patient had gone to his home in New York City.
Norwalk, Conn.....	State department of public health, Boston, Mass.	Father and child, contacts with a diphtheria case in Norwalk, Conn., returned to their home in Springfield, Mass.
Plainfield, Conn.....	State department of health, Albany, N. Y.	Patient with positive throat culture went to Brooklyn, N. Y.
Measles: Stonington, Conn.....	State department of public health, Boston, Mass.	Onset of disease one day after arrival in Stonington, Conn., from Springfield, Mass.
Poliomyelitis: Branford, Conn.....	do.....	Patient was taken sick in Branford, Conn., where she arrived from her home in West Springfield, Mass.
Scarlet fever: Fairfield, Conn.....	State department of health, Albany, N. Y.	Onset of disease two days after arrival in Fairfield Conn., from Brooklyn, N. Y.
Putnam, Conn.....	State board of health, Concord, N. H.	Onset of disease three days after arrival in Putnam from South Acworth, N. H.
New London, Conn.....	State department of health, Albany, N. Y.	Onset of disease while en route from New York City to New London, Conn.
Do.....	State board of health, Baltimore, Md.	Onset of disease three days before leaving Baltimore for New London, Conn.
Tuberculosis (pulmonary): New Britain, Conn.....	State board of health, Concord, N. H.	Home of patient is Hanover, N. H.
Norwalk, Conn.....	State department of health, Albany, N. Y.	Patient left sanitarium in Hartford for her home in Arlington, Mass.

LEPROSY.

Laredo, Tex.

A case of leprosy, in the person of a Mexican citizen (J. G.), was notified at Laredo, Tex., June 6, 1922. The patient has been deported.

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922.

ANTHRAX.

City.	Cases.	Deaths.
Montana: Great Falls.....	1	.....

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 26, 1922.		City.	Median for previous years.	Week ended Aug. 26, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Nebraska:			
Los Angeles.....	0	1		Omaha.....	0	1	
Connecticut:				New Jersey:			
Norwich.....	0	1	1	Newark.....	1		2
Florida:				New York:			
Tampa.....		1		New York.....	4	5	1
Indiana:				Ohio:			
Kokomo.....	0		1	Akron.....	0	1	
Iowa:				Pennsylvania:			
Sioux City.....	0	1		Pittsburgh.....	0	1	
Maryland:				Texas:			
Baltimore.....	0	3	1	Galveston.....	0		1
Massachusetts:				Vermont:			
Boston.....	0	1		Burlington.....	0	1	1
Fall River.....	0	1		West Virginia:			
Michigan:				Bluefield.....	0		2
Detroit.....	1	1		Wisconsin:			
Highland Park.....	0	2		Beloit.....		1	
Missouri:							
Kansas City.....	0	1	1				
St. Louis.....	0	1					

DENGUE.

City.	Cases.	Deaths.
Florida:		
Tampa.....	60	
Georgia:		
Brunswick.....	80	

DIPHTHERIA.

See p. 2270; also Telegraphic weekly reports from States, p. 2260, and Monthly summaries by States, p. 2263.

INFLUENZA.

City.	Cases.			City.	Cases.		
	Week ended Aug. 27, 1921.	Week ended Aug. 26, 1922.	Deaths, week ended Aug. 26, 1922.		Week ended Aug. 27, 1921.	Week ended Aug. 26, 1922.	Deaths, week ended Aug. 26, 1922.
California:				Massachusetts:			
Los Angeles.....	3	1		Brookline.....		1	
Oakland.....	1			Cambridge.....		1	
San Diego.....		1	1	Michigan:			
San Francisco.....	1			Detroit.....	1		
Stockton.....	1			Missouri:			
District of Columbia:				Kansas City.....		1	1
Washington.....	2			New Jersey:			
Georgia:				Jersey City.....	1		
Valdosta.....			1	West Orange.....		2	
Illinois:				New York:			
Chicago.....	3			New York.....	2	4	
Kansas:				Niagara Falls.....	1		
Topeka.....	1			Ohio:			
Louisiana:				Springfield.....	1		
New Orleans.....		1	1	Pennsylvania:			
Maryland:				Philadelphia.....		1	1
Baltimore.....		1	1	West Virginia:			
				Charleston.....	3		

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California: San Francisco.....	1	1	Massachusetts: Salem.....	1	1
Connecticut: New Haven.....	1	1	Nebraska: Omaha.....		1

MALARIA.

Alabama: Anniston.....	1		Louisiana: Baton Rouge.....	1	
Birmingham.....	2		New Orleans.....	2	1
Mobile.....		1	New Jersey: Newark.....	4	
Arkansas: Little Rock.....	5		Passaic.....	1	
North Little Rock.....	2		New York: New York.....	4	
California: Berkeley.....	1		Pennsylvania: Philadelphia.....	1	
Los Angeles.....	1		Tennessee: Memphis.....	25	5
Sacramento.....	1		Texas: Dallas.....	4	
San Francisco.....	1		Houston.....		1
Santa Ana.....	1				
Georgia: Albany.....	42				
Macon.....	8				
Illinois: Danville.....	1				
Springfield.....	1				

MEASLES.

See p. 2270; also Telegraphic weekly reports from States, p. 2260, and Monthly summaries by States, p. 2263.

PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Georgia: Atlanta.....		1	Ohio: Cleveland.....	1	
Augusta.....		1	South Carolina: Charleston.....		1
Louisiana: Baton Rouge.....	1		Texas: Galveston.....		1

PNEUMONIA (ALL FORMS).

Alabama: Birmingham.....		1	Illinois—Continued. Freeport.....	1	
California: Long Beach.....		1	Oak Park.....		1
Los Angeles.....	25		Springfield.....	5	2
Oakland.....		9	Indiana: East Chicago.....		2
Sacramento.....		2	Hammond.....		1
San Diego.....		1	Indianapolis.....		8
San Francisco.....	5	2	Iowa: Council Bluffs.....		2
Colorado: Denver.....		3	Muscantine.....		1
Connecticut: Bridgeport.....	3		Kansas: Wichita.....		2
Greenwich.....	1		Kentucky: Lexington.....		1
Hartford.....		1	Louisville.....	4	3
New Haven.....		4	Louisiana: New Orleans.....	18	16
Stonington.....		1	Maine: Biddeford.....		1
District of Columbia: Washington.....		3	Portland.....	2	
Georgia: Atlanta.....	3		Sanford.....		1
Augusta.....	2		Maryland: Baltimore.....	12	5
Illinois: Danville.....	1		Cumberland.....	2	
Elgin.....		1			

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Massachusetts:			New York:		
Boston.....		10	Albany.....	3	
Fall River.....		4	Buffalo.....	11	9
Framingham.....		1	Cohoes.....	1	
Lowell.....		2	Ithaca.....	1	
Lynn.....		1	Lackawanna.....	1	
Melrose.....		1	New York.....	133	54
New Bedford.....		3	Poughkeepsie.....	7	1
Newton.....	1		Rochester.....	1	3
Quincy.....	1		Saratoga Springs.....	2	
Taunton.....		1	Syracuse.....	6	
Winthrop.....	1		Troy.....	1	
Woburn.....		1	White Plains.....		1
Worcester.....		2	North Carolina:		
Michigan:			Rocky Mount.....		1
Ann Arbor.....	1		Ohio:		
Battle Creek.....	1		Akron.....	1	
Detroit.....	17	6	Canton.....		1
Grand Rapids.....	2	1	Cleveland.....	9	8
Hamtramck.....	1		Columbus.....		3
Highland Park.....	1		Dayton.....	1	
Jackson.....		1	Lima.....	1	
Kalamazoo.....		1	Youngstown.....		1
Marquette.....		1	Oklahoma:		
Muskegon.....	4		Oklahoma.....		3
Pontiac.....	1		Oregon:		
Saginaw.....	2		Portland.....		5
Minnesota:			Pennsylvania:		
Duluth.....	1		Philadelphia.....	45	31
Minneapolis.....		3	Rhode Island:		
St. Paul.....		2	Providence.....		1
Missouri:			South Carolina:		
Kansas City.....	7	5	Charleston.....		1
St. Joseph.....		1	South Dakota:		
Montana:			Sioux Falls.....		1
Butte.....		2	Texas:		
Nebraska:			Dallas.....		1
Omaha.....		2	Galveston.....		3
New Jersey:			Houston.....		3
Elizabeth.....		5	Utah:		
Hoboken.....		1	Salt Lake City.....		1
Jersey City.....	2		Virginia:		
Kearny.....	1		Norfolk.....		2
Newark.....	16	3	Portsmouth.....		2
Orange.....		1	Richmond.....		1
Passaic.....		1	Roanoke.....		1
Paterson.....	1		Wisconsin:		
Plainfield.....		1	Kenosha.....		1
Trenton.....		1	Milwaukee.....	2	
West Hoboken.....		1			
West Orange.....	1				

POLIOMYELITIS (INFANTILE PARALYSIS).

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 26, 1922.		City.	Median for previous years.	Week ended Aug. 26, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
Connecticut:				New York—Cont'd.			
Bridgeport.....	0	2		New York.....	2	5	
Fairfield.....	0	1		Rome.....	0	1	
Massachusetts:				Syracuse.....	0	2	
Attleboro.....	0	1		Ohio:			
Boston.....	1	4		Dayton.....	0	1	
Fall River.....	0	3		Pennsylvania:			
Newton.....	0	1	1	Philadelphia.....	0	2	
Somerville.....	0	2		Rhode Island:			
Montana:				Pawtucket.....	0	1	
Billings.....	0	14	1	Providence.....	0	4	
New Jersey:				Texas:			
Asbury Park.....	0	1		Dallas.....	0		1
Newark.....	0	2		West Virginia:			
Perth Amboy.....	0	1		Parkersburg.....	0	1	
New York:				Wisconsin:			
Auburn.....	0	3		Milwaukee.....	0	1	
Ithaca.....	0	2					

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Missouri:	
Los Angeles.....	8	Kansas City.....	1
Oakland.....	1	Ohio:	
Pasadena.....	2	Martins Ferry.....	1
Kentucky:		Tennessee:	
Louisville.....	3	Memphis.....	2

SCARLET FEVER.

See p. 2270; also Telegraphic weekly reports from States, p. 2260, and Monthly summaries by States, p. 2263.

SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 26, 1922.		City.	Median for previous years.	Week ended Aug. 26, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Ohio:			
Los Angeles.....	1	6		Columbus.....	0	2	
Oakland.....	1	1		Toledo.....	0	2	
Colorado:				Oregon:			
Denver.....	4	4		Portland.....	5	5	
Minnesota:				Virginia:			
Minneapolis.....	3	2		Portsmouth.....	0	1	
St. Paul.....	1	1		Washington:			
Montana:				Vancouver.....	1	2	
Billings.....	1	1		West Virginia:			
New York:				Fairmont.....	0	2	
Niagara Falls.....	0	1		Wisconsin:			
North Dakota:				Milwaukee.....	0	2	
Grand Forks.....	0	1		Superior.....	0	2	

TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
California:			Missouri:		
San Francisco.....	1		St. Louis.....	1	
Connecticut:			Massachusetts:		
Hartford.....	1	1	Melrose.....	1	
Kentucky:			North Carolina:		
Louisville.....	1		Winston-Salem.....		1
Louisiana:			Texas:		
New Orleans.....		1	Waco.....		1
Maryland:					
Baltimore.....		1			

TUBERCULOSIS.

See p. 2270; also Telegraphic weekly reports from States, p. 2260.

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previous years.	Week ended Aug. 26, 1922.		City.	Median for previous years.	Week ended Aug. 20, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Michigan:			
Anniston.....	0	4		Battle Creek.....	0		1
Birmingham.....	13	2	1	Detroit.....	13	4	1
Mobile.....	3		1	Flint.....	6	4	1
Arkansas:				Highland Park.....	1	1	
Little Rock.....	1	1		Minnesota:			
California:				Minneapolis.....	3	6	1
Los Angeles.....	4	6	1	Missouri:			
Oakland.....	2	1		Kansas City.....	5	3	2
Richmond.....	0	1		St. Louis.....	13	10	2
Riverside.....	9		1	Montana:			
Sacramento.....	1	3	2	Missoula.....	0	1	
San Bernardino.....	0	2	2	Nebraska:			
Colorado:				Lincoln.....	0		1
Denver.....	4	1		New Hampshire:			
Connecticut:				Berlin.....	0		1
Bridgeport.....	1	1		Concord.....	0	2	1
Bristol.....	0	1		New Jersey:			
Fairfield.....	0	1		Atlantic City.....	3	1	
Hartford.....	4	1		Elizabeth.....	0	2	
New Haven.....	5	4		Jersey City.....	1	1	
District of Columbia:				Newark.....	6	4	
Washington.....	11	4	1	Paterson.....	0	1	
Florida:				Trenton.....	1	2	1
Tampa.....		1		New Mexico:			
Georgia:				Albuquerque.....	0	1	
Albany.....	1	1		New York:			
Atlanta.....	5	7		Albany.....	1	2	
Brunswick.....	0	1		Buffalo.....	3	5	
Macon.....	2	5		Elmira.....	0	1	
Illinois:				Hudson.....	0	1	
Alton.....	0	1		Ithaca.....	0	2	
Danville.....	1	1	1	Mount Vernon.....	1	1	1
Decatur.....	1	1		New York.....	66	46	8
Mattoon.....	0	1		Niagara Falls.....	1	1	
Rockford.....	0	1		Rochester.....	1	3	1
Springfield.....	1	1		Rome.....	1	1	
Indiana:				Schenectady.....	0	2	
Indianapolis.....	5	3		Troy.....	1	1	
Kokomo.....	0	1	1	Watertown.....	2	1	
Muncie.....	0	1		North Carolina:			
Kansas:				Charlotte.....	0	1	
Atchison.....	0	1		Durham.....	4	2	
Coffeyville.....	1	1		Raleigh.....	0	4	
Kansas City.....	2	4		Winston-Salem.....	6	1	3
Salina.....	1	1		Ohio:			
Topeka.....	1	2		Bucyrus.....	2		1
Kentucky:				Canton.....	1	7	
Lexington.....	1	1		Chillicothe.....	0	1	
Louisville.....	9	10	1	Cleveland.....	7	7	1
Owensboro.....	1	1		Columbus.....	3	1	
Paducah.....	0	6		Dayton.....	1	1	
Louisiana:				East Cleveland.....	1	3	
Baton Rouge.....	0	1		Lima.....	1	1	
New Orleans.....	8	2		Lorain.....	1	2	
Maine:				Marion.....	2	1	
Portland.....	1	4		Newark.....	0	1	
Maryland:				Piqua.....	1	1	
Baltimore.....	13	7		Springfield.....	1	1	
Massachusetts:				Tiffin.....	0	1	
Attleboro.....	0	1		Toledo.....	3	2	
Boston.....	11	5		Youngstown.....	0		1
Fall River.....	7	1		Oklahoma:			
Lynn.....	2	1		Oklahoma.....	1	2	
Melrose.....	0	1	1	Oregon:			
Pittsfield.....	0	1		Portland.....	0	1	
Scumerville.....	0	2		Pennsylvania:			
Springfield.....	1	3		Allentown.....	2	1	
Taunton.....	0	1		Altoona.....	1	1	
Westfield.....	0	1		Bradford.....	0	1	
Winchester.....	1	1		Butler.....	0	1	
Worcester.....	2		2	Canonsburg.....	1	3	

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

TYPHOID FEVER—Continued.

City.	Median for previous years.	Week ended Aug. 26, 1922.		City.	Median for previous years.	Week ended Aug. 26, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
Pennsylvania—Contd.				Virginia:			
Carrick	0	1		Charlottesville		2	
Easton	0	1		Danville	1	1	1
Erie	2	2		Lynchburg	1	1	
Homestead	0	2		Norfolk	5	1	
Philadelphia	13	23	1	Portsmouth		2	
Phoenixville	0	1		Richmond	4		1
Pittsburgh	4	4		Washington:			
Pottstown	0	1		Seattle	1	1	
Reading	3	1		Tacoma	1	1	
Rhode Island:				Yakima	0	1	
Pawtucket	0	1		West Virginia:			
South Carolina:				Bluefield	1	2	
Charleston	1	5		Clarksburg	0	1	
Columbia	0	4		Fairmont	0	2	
Tennessee:				Huntington	3	2	
Knoxville	2	2	1	Martinsburg	0	1	
Memphis	1	2	1	Wheeling	2	2	
Nashville	14	2		Wisconsin:			
Texas:				Green Bay	0	1	
Dallas	4	4	1	Sheboygan	0	3	
El Paso	0	1		Wyoming:			
Fort Worth	1	1	1	Cheyenne	0	1	
Vermont:							
Barre	0	1					

DIPHThERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Alabama:										
Anniston	17,734		19		1				1	
Birmingham	178,806	36	6				3		6	3
Mobile	60,777	22	1							3
Montgomery	43,464	9	1				2			
Tuscaloosa	11,996		7							
Arkansas:										
Fort Smith	28,870	10					1			
Little Rock	65,142		1						1	
North Little Rock	14,048						1			
California:										
Alameda	28,806	4	1							
Berkeley	56,036	6	1		2				1	
Glendale	13,536	8								
Long Beach	55,593	17			1				4	1
Los Angeles	576,673	165	34	2			6	1	41	18
Oakland	216,281	28	9				2		1	2
Pasadena	45,354	10							2	
Richmond	16,843	4								
Riverside	19,341	7							2	1
Sacramento	65,906	17	2						4	2
San Bernardino	18,721	6								3
San Diego	74,683	24	3				1		1	3
San Francisco	566,676	119	23	1	3		4		18	9
Santa Ana	15,435	5	1							
Santa Barbara	19,441	3								
Santa Cruz	10,917	5					1			
Vallejo	21,107	3								
Colorado:										
Denver	256,491	59	32	1			8			12
Pueblo	43,050	5	2	1						
Connecticut:										
Bridgeport	143,555	27	1		5		1		13	3
Bristol	20,620	0							2	
Derby	11,238	1								
Fairfield (town)	11,475						1			

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Connecticut—Continued.										
Greenwich (town).....	22, 123						2			
Hartford.....	138, 036	23	2	1	2					2
Manchester (town).....	18, 370	2				1				
Milford (town).....	10, 193	3								
New Haven.....	162, 573	34	1		2		3		3	2
New London.....	25, 688	3							1	
Norwalk.....	27, 743	8								1
Norwich (city).....	22, 304	4								2
Stonington (town).....	10, 236	2		2						
District of Columbia:										
Washington.....	437, 571	108	8		2		1		22	7
Florida:										
Tampa.....	51, 608	12	1							
Georgia:										
Atlanta.....	200, 616	66	20	3			11	1		4
Augusta.....	52, 548	27	1							
Macon.....	52, 926		4		2					
Rome.....	13, 282		5							
Valdosta.....	10, 788	4							1	
Idaho:										
Boise.....	21, 326	2								
Pocatello.....	15, 001	3								
Illinois:										
Alton.....	24, 682	7	2				1			
Aurora.....	36, 397	19	2				1			1
Blue Island.....	11, 424	5	2							
Centralia.....	12, 491	1					1			
Champaign.....	15, 873									1
Cicero.....	44, 966	5	1							
Danville.....	33, 776	7	1				1			4
Decatur.....	48, 818	4	1							1
Elgin.....	27, 454	6								
Evanston.....	37, 224	5			1					
Freeport.....	19, 669		1							1
Galesburg.....	23, 824	7								
La Salle.....	13, 050	2								
Mattoon.....	13, 552	0								1
Oak Park.....	30, 888	7								
Peoria.....	76, 121	23	2				2			
Quincy.....	35, 978	13								1
Rockford.....	65, 651	12	1		4		1			1
Springfield.....	59, 183	18								
Indiana:										
Anderson.....	29, 767	3	2							1
Crawfordsville.....	10, 129	2								
East Chicago.....	35, 967	11		1						1
Frankfort.....	11, 585	1								
Hammond.....	36, 034	9								
Huntington.....	14, 030	3								
Indianapolis.....	314, 194	93	10	1	2		2		18	10
Kokomo.....	30, 687	7								
La Fayette.....	22, 486	3					1			
Logansport.....	21, 626	6								
Mishawaka.....	15, 195	3	1							
Muncie.....	36, 524	3								
South Bend.....	70, 993									1
Terre Haute.....	66, 083	14	4	1			1			2
Iowa:										
Burlington.....	24, 057	12	1							
Council Bluffs.....	26, 162	11	2				1			1
Des Moines.....	126, 468	4					3			
Dubuque.....	30, 141									1
Iowa City.....	11, 267		1							
Marshalltown.....	15, 721		1		1					
Mason City.....	20, 045	3	4							
Muscatine.....	16, 088	3								1
Ottumwa.....	28, 023		1							
Sioux City.....	71, 227						5			
Waterloo.....	26, 220				2		7			
Kansas:										
Coffeyville.....	13, 452	2			1					
Fort Scott.....	10, 983	3	1							
Kansas City.....	101, 177	3						3		6

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Kansas—Continued.										
Lawrence.....	12,456	6								
Parsons.....	16,028	4								
Salina.....	15,065	3								
Topeka.....	50,022	11	5				5		2	
Wichita.....	72,217	30	5		1		1			
Kentucky:										
Covington.....	57,121	10					1			1
Lexington.....	41,534	14							1	
Louisville.....	234,891	58	5				2		16	7
Owensboro.....	17,424		1							
Paducah.....	24,735		4		3					
Louisiana:										
Baton Rouge.....	21,782	3	1							
New Orleans.....	387,219	117	8				8		28	6
Maine:										
Auburn.....	16,985	2								
Bangor.....	25,978		1						2	
Bath.....	14,731	4								
Biddeford.....	18,006	17								1
Lewiston.....	31,791	6							1	
Portland.....	69,272	18	1							
Sanford (town).....	10,691	3								
Waterville.....	13,351				2					
Maryland:										
Baltimore.....	733,826	173	16	2	7		8		43	12
Cumberland.....	29,837	3	1				1			
Massachusetts:										
Amesbury (town).....	10,036	0								
Arlington (town).....	18,665	4					2			
Attleboro.....	19,731	4							3	1
Belmont (town).....	10,749	3	2						3	
Beverly.....	22,561	3			2		1			
Boston.....	748,060	170	67	1	26	1	12		46	12
Brantree (town).....	10,580	2								2
Brookline.....	37,748	6	1							2
Cambridge.....	109,694	20	1		2		2		2	3
Chelsea.....	43,184	10							1	
Chicopee.....	36,214	4								
Clinton.....	12,979	5								
Danvers.....	11,108		1							
Easthampton.....	11,261		2							
Everett.....	40,120	5	1						2	1
Fall River.....	120,485	38	1		4				3	3
Framingham.....	17,033	4								
Gardner.....	16,971	0							1	
Greenfield.....	15,462	0	1							
Haverhill.....	53,894	16	2						4	
Leominster.....	19,744	7								
Lowell.....	112,759	25	2	1			1		4	2
Lynn.....	99,148	18	2		2		2		4	
Malden.....	49,103	7	1				1		1	
Medford.....	39,038	8								1
Melrose.....	18,204	7			1					
Methuen.....	15,189	1								
New Bedford.....	121,217	23	5						4	
Newburyport.....	15,618	2			4					
Newton.....	46,054	8							3	
North Adams.....	22,282	5								
Northampton.....	21,951	7	2		1		1			1
Pittsfield.....	41,763	15							1	1
Plymouth.....	13,045	8								
Quincy.....	47,876	8	1		1		1			
Salem.....	42,529	10		1	2		1		1	
Somerville.....	93,091	17	5		1		1			
Springfield.....	129,614	23	2		1				3	1
Taunton.....	37,137	13							2	1
Wakefield.....	13,025	2								
Waltham.....	30,915	10			1		1		3	
Watertown.....	21,457	3								
West Springfield.....	13,443	2								
Westfield.....	18,604	2	2							
Winchester.....	10,485	2								
Winthrop.....	15,455	4			1					1

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Massachusetts—Continued.										
Woburn.....	16,574	4								
Worcester.....	179,754	38	3				2		4	2
Michigan:										
Ann Arbor.....	19,516	10	1				1			2
Battle Creek.....	36,164	2	2		1		2			1
Benton Harbor.....	12,233	5	2				1			1
Detroit.....	993,678	154	16	2	4		23	1	42	9
Flint.....	91,599	15	9		4		3		6	
Grand Rapids.....	137,634	24	2		1		2		1	2
Hamtramck.....	48,615	0	5				2			
Highland Park.....	46,499	7					1			
Holland.....	12,183	2								
Jackson.....	48,374	8		1	1					1
Kalamazoo.....	48,487	14	4						10	
Marquette.....	12,718	5								2
Muskegon.....	36,570	5	4	1			1			
Pontiac.....	34,273	7	1		1					1
Port Huron.....	25,944	6			1					
Saginaw.....	61,903	12	1				2			
Sault Ste. Marie.....	12,066	1					1			
Minnesota:										
Duluth.....	98,917	13	7	1			3		3	3
Hibbing.....	15,089		1				8			
Mankato.....	12,469						1			
Minneapolis.....	380,582	69	16		1		7		23	7
Rochester.....	13,722	9								
St. Paul.....	234,698	35	15				3		10	
Winona.....	19,143	3					1			
Missouri:										
Joplin.....	29,902				1					
Kansas City.....	324,410	89	4				1		7	8
St. Joseph.....	77,939	28	3				1			1
St. Louis.....	772,897	142	16				5		30	8
Springfield.....	39,631	9								
Montana:										
Anaconda.....	11,668	2								
Billings.....	15,100	5								
Butte.....	41,611	13								2
Great Falls.....	24,121	5	3		1				1	
Misoula.....	12,668	4								
Nebraska:										
Lincoln.....	54,948	11								1
Omaha.....	191,601	42	3	1			1			1
Nevada:										
Reno.....	12,016	4								
New Hampshire:										
Berlin.....	16,104	7								
Concord.....	22,167	6								
Dover.....	13,029	6	1							
Keene.....	11,210	2					1			
Manchester.....	78,384	14	1		1					
New Jersey:										
Asbury Park.....	12,400	3								
Atlantic City.....	50,707	15			2				1	
Bayonne.....	76,754								2	
Belleville.....	15,660								3	
Bloomfield.....	22,019	4							1	
Clifton.....	26,470	2	1		1					
East Orange.....	50,710	3								1
Elizabeth.....	95,783		11	1			5		1	
Englewood.....	11,627	2								
Garfield.....	19,381	0	1						2	
Hackensack.....	17,667	2								
Hoboken.....	68,166	16	3						1	1
Jersey City.....	298,103		7				1		6	
Keamy.....	26,724	4							1	
Morristown.....	12,548	6								1
Newark.....	414,524	74	6		6		2		21	5
Orange.....	33,268	4	2		2		1		1	
Passaic.....	63,841	16	4		1		1			2
Paterson.....	135,875						1		7	
Perth Amboy.....	41,707	4	8		1				1	

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New Jersey—Continued.										
Phillipsburg.....	16,923	6								
Plainfield.....	27,769	8							1	
Summit.....	16,174	2							1	
Trenton.....	119,289	30	5		1		3		1	2
Union (towns).....	26,661						1			
West Hoboken.....	46,674	5							1	2
West New York.....	28,526	1	1							
West Orange.....	15,573		1							
New Mexico:										
Albuquerque.....	15,157	3					2			1
New York:										
Albany.....	113,344		3		1				4	
Auburn.....	38,123	7	1							
Buffalo.....	507,775	107	8	1	1		16	1	17	4
Cohoes.....	22,667	6	2	1					1	1
Elmira.....	45,268		1							
Geneva.....	14,648	0								
Glen Falls.....	16,638	5								
Hornell.....	15,625	4								
Hudson.....	11,745	6								
Ithaca.....	47,064	6								
Jamestown.....	38,917	13					2	1		3
Lackawanna.....	17,918	2							1	
Little Falls.....	13,029	1								
Lockport.....	21,368	4							1	
Mount Vernon.....	42,726	4	1				1		1	
New York.....	5,620,048	1,050	107	4	35	3	33	1	1316	1104
Newburgh.....	30,366	10			1					2
Niagara Falls.....	50,760	17	3		2		1		1	
North Tonawanda.....	15,482	1								
Peekskill.....	15,668	1				5				
Port Chester.....	10,573	3								
Poughkeepsie.....	35,000	9							3	
Rochester.....	265,750	64	3		5		4		10	4
Rome.....	26,341	8	1							1
Saratoga Springs.....	13,181	3					1		1	1
Schenectady.....	88,723	13					7			
Syracuse.....	171,717	34	13				2		4	2
Troy.....	72,013	11	1						1	
Westertown.....	31,285	11								
White Plains.....	21,031	8			1					
North Carolina:										
Charlotte.....	46,338	18	26						2	1
Durham.....	21,719	8	2	1					1	
Raleigh.....	24,418	10	2				1			1
Rocky Mount.....	12,742	4		1						
Salisbury.....	13,584	3								
Wilmington.....	33,372	10					1			1
Winston-Salem.....	48,395	17	7	1			2		3	
North Dakota:										
Grand Forks.....	14,010						1			
Ohio:										
Akron.....	208,435	22	1					10		
Ashland.....	22,062	3								
Barberton.....	18,811	4	1				1			1
Bucyrus.....	10,425	1								
Cambridge.....	13,104	4								
Canton.....	87,091	13	6				1			1
Chillicothe.....	15,831	3								
Cleveland.....	796,841	168	18	2	5		16	1	28	21
Cleveland Heights.....	15,236		1	1						
Columbus.....	237,031	45	2		5		4		8	5
Dayton.....	152,559	39	2				3		2	
East Cleveland.....	27,292	5			1					1
Findlay.....	17,021	3								
Fremont.....	12,468	1								
Lancaster.....	14,706	5	1	1						
Lima.....	41,326	9			1					
Mansfield.....	27,824	8								
Marion.....	27,891		1							
Martins Ferry.....	11,634	4	1				1			

1 Pulmonary tuberculosis only.

CITY REPORTS FOR WEEK ENDED AUGUST 26, 1922—Continued.

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

City.	Population Jan. 1, 1920.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Ohio—Continued.										
New Philadelphia.....	10,718				1					
Newark.....	26,718	6	1					1		
Norwood.....	24,966	3	1				1			
Piqua.....	15,044	4	1							
Salem.....	10,305	3			1					
Sandusky.....	22,997	5								
Springfield.....	60,840	13	2				1		1	
Tiffin.....	14,375	5							1	
Toledo.....	243,164	61	12	2	10	1	3	17	6	
Youngstown.....	132,358	35	11	1	1			3	1	
Zanesville.....	29,569	6	2					1	1	
Oklahoma:										
Oklahoma.....	91,295	28	4			2		1		
Oregon:										
Portland.....	258,288	52	2		1		1	8	3	
Pennsylvania:										
Allentown.....	73,502		4							
Altoona.....	60,331		2							
Ambridge.....	12,730		1			1				
Beaver Falls.....	12,802				2					
Bethlehem.....	50,358		4					2		
Braddock.....	20,879							1		
Bristol.....	10,273		2		1					
Butler.....	23,778		1							
Canonsburg.....	10,632		1		1					
Carbondale.....	18,640		1							
Carnegie.....	11,516							4		
Chester.....	58,030				3		1			
Coatesville.....	14,515				1					
Columbia.....	10,836		1							
Connellsville.....	13,804		1							
Donora.....	14,131		1							
Duquesne.....	19,011		1							
Easton.....	33,813							1		
Erie.....	93,372		3					12		
Greensburg.....	15,033						1			
Harrisburg.....	75,917		1		2		1	1		
Hazleton.....	32,277		1							
Jeannette.....	10,627		1							
Johnstown.....	67,327		3				1	3		
Lancaster.....	53,150		3				2	1		
McKee's Rocks.....	16,713		8							
McKeesport.....	46,781						1			
Mahanoy City.....	15,599				1					
Monessen.....	18,179						1			
Mount Carmel.....	17,469						1			
Nanticoke.....	22,614		1							
New Castle.....	44,938						1			
Norristown.....	32,319		1		2					
North Braddock.....	14,928						1			
Oil City.....	21,274						1	1		
Philadelphia.....	1,823,779	389	43		41	2	17	86	26	
Pittsburgh.....	588,343		24		21		15	11		
Pottsville.....	21,876				1					
Reading.....	107,784		2		2			3		
Scranton.....	137,783		2		1					
Shamokin.....	21,204							1		
Sharon.....	21,747		1							
Shenandoah.....	24,726		1		1					
Steelton.....	13,423		1		1					
Sunbury.....	15,721						2			
Tamaqua.....	12,363						1			
Uniontown.....	15,692		1		1		1	1		
Washington.....	21,480		1				5			
Wilkes-Barre.....	73,833				2		1			
Williamsburg.....	24,403		3		4		2	2		
Williamsport.....	36,198		1							
Woodlawn.....	12,495		3		7					
York.....	47,512		2				4	1		
Rhode Island:										
Cumberland (town).....	10,077		2							
Newport.....	30,255		5							
Pawtucket.....	64,243	10								
Providence.....	237,595	53	4		3		2		1	

FOREIGN AND INSULAR.

PLAGUE ON VESSEL.

Steamship "Dumbea"—From Mauritius—At Suez.

The mail steamship *Dumbea*, from the Island of Mauritius, arrived August 5, 1922, at Suez, Egypt, with a case of plague on board. The patient, a French sailor, had been ill two days previous to arrival and on August 4 presented symptoms suspicious of plague. The patient was landed at the Wells of Moses and was declared positive for plague August 6. The vessel, which was destined for Marseille, France, passed the canal under quarantine, after disinfection.

HAWAII.

Plague—Plague-Infected Rats.

A death from plague occurred August 16, 1922, at the quarantine station, Hilo, Hawaii, in a Japanese from Pohakea, Hamakua.

Two plague-infected rats were reported found, August 12, at Honokaa plantation.

PANAMA.

Communicable Diseases—July, 1922.

Communicable diseases were reported to the chief health officer, Panama Canal, during the month of July, 1922, as follows:

Disease.	Panama.	Colon.	Canal Zone.	Nonresident.	Total.
Chicken pox.....	3	4	3	.....	10
Diphtheria.....	13	2	2	.....	17
Hookworm disease.....	30	.....	21	.....	51
Leprosy.....	.....	1	.....	1	2
Malaria.....	13	8	124	43	188
Measles.....	12	.....	.....	.....	12
Mumps.....	.....	.....	1	.....	1
Pneumonia.....	9	12	2	.....	23
Scarlet fever.....	2	.....	.....	.....	2
Smallpox.....	1	2	.....	1	4
Tuberculosis.....	6	5	2	4	17
Typhoid fever.....	1	.....	.....	3	4

PORTUGUESE WEST AFRICA.

Plague—Guinea.

Under date of August 24, 1922, plague was reported present in Guinea, Portuguese West Africa.

RUMANIA.

Cholera—Bessarabia.

Under date of July 29, 1922, 11 cases of cholera with 1 death were reported as having occurred at Rascautzi, and 1 case was reported at Cobusea, Province of Bessarabia, Rumania, July 24, 1922. On August 11 three cases were reported at the village of Codaeshti, and cholera was stated to be present among troops in garrison in the prefecture of Orhei, northern section of the Province.

RUSSIA.

Communicable Diseases—Lettonia—June, 1922.

Communicable diseases have been reported in the Province of Lettonia, Russia, for the month of June, 1922, as follows:

Disease.	Cases.	Disease.	Cases.
Cerebrospinal meningitis.....	3	Smallpox.....	21
Diphtheria.....	44	Typhoid fever.....	57
Measles.....	33	Typhus fever.....	111
Poliomyelitis (infantile paralysis).....	26	Typhus fever, recurrent.....	16
Scarlet fever.....	127	Whooping cough.....	107

UNION OF SOUTH AFRICA.

Smallpox—Typhus Fever—June, 1922.

During the month of June, 1922, 61 cases of smallpox, with 2 deaths occurring in the colored population and 3 cases occurring in the white population, were reported in the Union of South Africa. During the same period, 484 cases of typhus fever with 80 deaths occurring among the colored population and 9 cases among the white population were reported. (For distribution according to States, see table pp. 2280, 2281.)

VIRGIN ISLANDS.

Contagious Diseases—July, 1922.

The occurrence of contagious diseases in the Virgin Islands during the month of July, 1922, has been reported as follows.

Island and disease.	Cases.	Remarks.
In St. Thomas and St. John:		
Chancroid.....	1	
Gonococcus infection.....	4	Imported.
Malaria.....	1	Tertian. Imported.
Syphilis.....	5	Secondary, 3.
Tuberculosis.....	1	Chronic pulmonary.
In St. Croix:		
Chancroid.....	3	Imported, 1.
Dengue.....	6	
Dysentery.....	1	Entamebic.
Filariasis.....	6	Bancrofti.
Gonorrhoea.....	2	
Trachoma.....	1	
Tuberculosis.....	1	Chronic pulmonary.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.**Reports Received During Week Ended September 15, 1922.¹**

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

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Shanghai.....	Aug. 1-6.....	1	11	Case, foreign; deaths, native.
India:				
Calcutta.....	July 23-29.....	7	6	Received out of date.
Rangoon.....	July 9-15.....	10	5	
Philippine Islands:				
City—				
Manila.....	July 16-20.....	3		
Province—				
Batangas.....	July 2-8.....	3	2	
Marinduque.....	June 25-July 1.....	3	3	
Pangasinan.....	June 18-24.....	3	1	
Rizal.....	do.....	1		
Rumania:				
Bessarabia—				
Cobusea.....	July 24.....	1		Reported Aug. 11. Prefecture. Cholera reported Aug. 11 among troops in gar- rison.
Codaeshti.....		3		
Orhei.....				
Rascautzi.....		11	1	Reported July 29.
Syria:				
Aleppo.....	Aug. 6-12.....			Present in interior.

PLAGUE.

Asta Minor:				
Smyrna.....	Aug. 6-12.....	3	1	District.
Brazil:				
Porto Alegre.....	July 30-Aug. 5....	1		
China:				
Amoy.....	July 16-22.....			Present.
Hongkong.....	July 16-29.....	29	23	Jan. 1-Aug. 10, 1922: Cases, 414; deaths, 185.
Egypt:				
City—				
Alexandria.....	Aug. 7-10.....	3		
Port Said.....	Aug. 10.....	1	1	
Suez.....	Aug. 7-8.....	2	1	
Province—				
Assiout.....	Aug. 5.....	1	1	
Benisouef.....	Aug. 7.....	1	1	
Minieh.....	Aug. 9.....	5	1	
Hawaii:				
Honokaa.....	Aug. 12.....			Two plague rats.
Pohakaa.....	Aug. 16.....	1	1	Japanese. Death at quarantine station, Hilo.
India:				
Rangoon.....	July 9-15.....	32	32	Received out of date.
Java.....				June 1-30, 1922: Cases, 222; deaths, 259. In five provinces.
Mesopotamia:				
Bagdad.....	June 1-30.....	110	78	
Palestine:				
Jerusalem.....	Aug. 8-14.....	4		Native quarter of Jaffa.
Portuguese West Africa:				
Guinea.....				Reported present, Aug. 24, 1922.
On vessel:				
S. S. Dumbea.....	Aug. 5.....	1		At Suez, Egypt, from Island of Mauritius. Patient ill two days previous to arrival. Declared positive Aug. 6.

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

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

Reports Received During Week Ended September 15, 1922—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Para.....	Aug. 7-20.....	32		
Canada:				
Ontario—				
Ottawa.....	Aug. 20-26.....	1		
Toronto.....	Aug. 13-19.....	2		
Saskatchewan—				
Saskatoon.....	Aug. 20-26.....	1		
Chile:				
Concepcion.....	July 18-31.....		6	
Talcahuano.....	July 22-30.....		5	
China:				
Amoy.....	July 16-22.....			Present.
Chungking.....	July 16-29.....			Do.
Hongkong.....	July 16-22.....	2	2	
Nanking.....	July 16-29.....			Do.
Tsingtau.....	July 24-30.....	2	1	
Chosen:				
Fusan.....	July 1-31.....	13	9	
Seoul.....	do.....	23	8	
Dominican Republic:				
San Pedro de Macoris.....	July 30-Aug. 11.....	51	2	Including surrounding country.
Santo Domingo.....	Aug. 13-19.....		1	
Egypt:				
Alexandria.....	July 23-29.....	1	1	
Great Britain:				
Liverpool.....	Aug. 13-19.....	1		At port hospital.
London.....	Aug. 6-12.....	3		
Greece:				
Saloniki.....	June 19-25.....		1	
Do.....	July 17-23.....		1	
India:				
Calcutta.....	July 23-29.....	3	1	
Rangoon.....	July 9-15.....	3	1	Received out of date.
Japan:				
Taiwan Island.....	July 22-Aug. 10.....	27	4	
Mesopotamia:				
Bagdad.....	June 1-30.....	24	13	
Mexico:				
Guadalajara.....	July 1-31.....	4	1	
Mexico City.....	July 16-22.....	23		Including municipalities in Federal District.
Panama:				
Colon.....	July 1-31.....	2		July 1-31, 1922: Cases, 4, of which 1 in nonresident and not locally reported.
Panama.....	do.....	1		
Portugal:				
Lisbon.....	July 31-Aug. 6.....		9	
Russia:				
Lettonia.....	June 1-30.....	21		
Switzerland:				
Zurich.....	Aug. 6-12.....	4		
Yugoslavia:				
Belgrade.....	July 17-23.....	2	1	
Union of South Africa:				
Cape Province.....				June 1-30, 1922: Colored—cases, 61; deaths, 2. White—cases, 3.
Do.....	July 9-15.....			June 1-30, 1922: Colored—cases, 55; deaths, 2. White—cases, 2.
Natal.....	do.....			Outbreaks.
Transvaal.....				Do.
Do.....	July 9-15.....			June 1-30, 1922: Colored—cases, 6.
				Outbreaks.

TYPHUS FEVER.

Chile:			
Concepcion.....	July 18-31.....		2
Valparaiso.....	July 18-24.....		1
China:			
Antung.....	July 10-Aug. 6.....	6	
Egypt:			
Port Said.....	Aug. 7-19.....		1

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

Reports Received During Week Ended September 15, 1922—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Germany:				
Berlin.....	July 16-22.....		3	
Stuttgart.....	July 22-Aug. 5....	1	1	
Greece:				
Saloniki.....	June 12-18.....	2		Russian refugees.
Mesopotamia:				
Bagdad.....	June 1-30.....	1	1	
Mexico:				
Mexico City.....	July 16-22.....	13		Including municipalities in Federal District.
Netherlands:				
Amsterdam.....	July 30-Aug. 5....	1		
Russia:				
Lettonia.....	June 1-30.....	111		Recurrent typhus, 16 cases.
Union of South Africa:				
Cape Province.....				June 4-30, 1922: Colored—cases, 484; deaths, 81. White—cases, 9. June 1-30, 1922: Colored—cases, 399; deaths, 69. White—cases, 9.
Do.....				Outbreaks.
Natal.....				June 1-30, 1922: Colored—cases, 31; deaths, 3.
Orange Free State.....				June 1-30, 1922: Colored—cases, 46; deaths, 8.
Transvaal.....				June 1-30, 1922: Colored—cases, 6.

Reports Received from July 1 to September 8, 1922.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	May 14-June 24....	1	4	
Shanghai.....	June 25-July 31....	198		Aug. 4-10: Deaths, 11. July 29: Stated to be 250 cases in Chinese isolation hospital.
Tientsin.....	July 25.....	2	2	Foreign concession.
Greece:				
Athens.....	June 29.....	1	1	
Saloniki.....	June 7-17.....	30	11	At quarantine station, among passengers from vessel carrying Russian refugees.
India:				
Bombay.....	Apr. 23-June 17....	12	5	
Calcutta.....	Apr. 23-June 24....	536	378	
Do.....	June 25-July 22....	32	32	
Madras.....	May 21-June 17....	3	1	
Do.....	July 16-29.....	3	2	
Rangoon.....	May 7-June 24....	116	65	
Do.....	June 25-July 22....	69	44	
Philippine Islands:				
Manila.....	May 21-June 24....	8		
Do.....	June 25-July 15....	5		
Province—				
Bataan.....	June 4-10.....	1		
Batangas.....	May 26-June 24....	15	11	
Do.....	June 25-July 1....	2	1	
Bulacan.....	Apr. 30-May 6.....	1	1	
Camarines Sur.....	Mar. 25-Apr. 1....	1	1	
Logoson.....	Apr. 16-23.....	1		
Mindoro.....	Apr. 23-29.....	1		
Nueva Ecija.....	June 11-17.....	1	1	
Pampanga.....	Apr. 16-June 24....	6	5	
Do.....	June 25-July 8....	1	1	
Rizal.....	Apr. 2-May 27....	2	1	
Tarlac.....	May 21-June 10....	4	4	
Poland:				
Rovno.....	June 10-16.....	5	2	Repatriation station: Cases occurring among persons repatriated from Russia.
Do.....	July 11-Aug. 5....	33	8	
Zamosc.....	Aug. 21.....	1	1	

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

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

Reports Received from July 1 to September 8, 1922—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Rumania: Crangasi.....				To July 9, 1922: Cases, 11; deaths, 6. First case in soldier from frontier on Dniester River. Crangasi, a suburb of Bucharest.
Siam: Bangkok.....	Apr. 30-June 17...	15	9	
Do.....	July 2-15.....	5	2	
Syria: Aleppo.....	May 27-June 3.....			A few cases in interior. Present in interior.
Do.....	June 25-Aug. 5.....			
On vessel: S. S. Chios.....	July 16.....	1		At Kavak quarantine station, Bosporus, from Novorossysk, a Russian Black Sea port. Case occurred in a recognized carrier. Vessel carried refugees for Saloniki, Greece. Six bodies buried at sea, 12 landed at Kavak during stay.

PLAGUE.

Algeria: Oran.....	Aug. 1-10.....			1	
Asia Minor: Smyrna.....	May 23-June 17.....	3		1	
Do.....	June 30-July 29.....	3			
Australia: New South Wales— Sydney.....	June 1-15.....	2			Apr. 2-June 10, 1922: 19 plague-infected rats found.
Azores: St. Michaels Island.....	June 25-July 22.....	18		3	At Arrifes and Ribeira, about 9 miles from port of Ponta Delgada.
Brazil: Bahia.....	June 11-17.....	1			May 7-June 4: Rodent: occurring in 1 section of the city. Many dead rats found.
Pernambuco.....	May 7-13.....	1			
British East Africa: Kenya Colony.....					Mar. 1-May 31, 1922: Cases, 187; deaths, 172.
Nairobi.....	Feb. 1-23.....	15		15	
Ceylon: Colombo.....	May 6-June 24.....	13		10	Plague rats, 5.
Do.....	June 25-July 22.....	9		8	Plague rats, 9.
China: Amoy.....	May 7-June 24.....			87	May 20: From 10 to 20 deaths reported daily.
Do.....	June 25-July 15.....			76	
Canton.....	May 1-June 30.....			23	
Foochow.....	May 7-June 10.....			5	June 17-24: Present. June 21: Mildly epidemic; 2 fatal cases in foreign physicians.
Do.....	July 2-8.....			2	June 25-July 1, 1922: Prevalent.
Hongkong.....	June 4-24.....	176		104	
Do.....	June 25-July 15.....	80		56	
Ecuador: Guayaquil.....	June 1-15.....				Rats found infected, 16; examined, 3,400.
Do.....	July 1-31.....				Rats examined, 9,200; found infected, 6.
Egypt: City—					Jan. 1-June 29, 1922: Cases, 280; deaths, 120. Jan. 1-Aug. 3, 1922: Cases, 401; deaths, 179.
Alexandria.....	June 1-28.....	21		6	
Do.....	July 2-Aug. 2.....	10		5	
Port Said.....	June 12-25.....	2		5	
Do.....	July 2-Aug. 2.....	23		17	Septicemic, 1.
Suez.....	May 24-June 25.....	7		6	Foreign, cases, 2; deaths, 2.
Do.....	July 10.....	1		1	

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

Reports Received from July 1 to September 8, 1922—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt—Continued.				
Province—				
Assiout	May 30-June 23	14	8	Septicemic, 1.
Do.	July 11-25	5	2	
Benisouef	May 26-June 30	19	7	
Do.	July 2-25	27	12	
Fayoum	June 3-29	8	4	
Do.	July 2-20	13	3	
Gharbieh	May 26-June 30	37	13	
Do.	July 2	3	1	
Menoufieh	July 20	1	1	
Minieh	June 2-29	24	7	
Do.	July 14-Aug. 3	10	5	
Greece:				
Patras	Apr. 24-June 25	5	3	
Hawaii:				
Hamakua	June 30-July 4	1	1	At Kalopa Homesteads. Case, Hawaiian.
Do.	July 8			Hamakua Mill Co. One plague rat trapped; found positive, July 14, 1922.
Kalopa	July 13	1	1	Contact with case at Kalopa Homesteads, July 4.
Paauhau	June 30			One plague rat trapped at Paauhau Gulch, June 26; found positive, June 30, 1922.
Paauiio	July 7		1	At Pohakea, Japanese.
Pohakea	Aug. 1	1	1	Japanese child; case reported positive for plague Aug. 6, 1922. Form, pneumonic.
Pohakuhaku	July 12	1	1	Hawaiian. Reported positive, July 19.
India				Apr. 23-June 17, 1922: Cases, 6,075; deaths, 4,642. June 25-July 8, 1922: Cases, 501; deaths, 375.
Bombay	Apr. 23-June 24	168	123	
Do.	June 25-July 1	5	3	
Calcutta	Apr. 23-June 24	56	54	
Do.	June 25-July 22	11	11	
Karachi	May 23-June 24	59	55	
Do.	June 25-July 8	3	3	
Madras Presidency	May 21-June 24	74	36	
Do.	June 25-July 29	225	126	
Rangoon	May 6-June 24	175	161	
Do.	June 25-July 29	93	84	
Indo-China:				
Saigon	Apr. 23-June 24	30	21	
Italy:				
Catania	June 17	1		
Japan:				
Osaka	July 11-20	7	6	Reported as having occurred during past month, cases, 9; deaths, 8.
Java				Month of April, 1922: Report of the 7 Provinces of Java: Cases, 413; deaths, 495. May 1-31, 1922: Cases, 293; deaths, 316, occurring in 6 Provinces.
East Java—				
Soerabaya	May 7-June 24	3	3	
Soerakarta—				
Keponen	May 20			Epidemic.
Madagascar:				
Tananarive Province—				
Anketrina	May 4		1	Native village; disease stated to have been present since about Apr. 27, 1922. (Name of locality corrected.)
Tamatave	Aug. 21			Present.
Tananarive	May 29-June 18	2	1	
Mesopotamia:				
Bagdad	Apr. 1-May 31	158	110	
Mexico:				
Vera Cruz	June 30			One plague-infected rat.
Palestine:				
Jerusalem	July 4-Aug. 7	28	2	In native quarter of Jaffa. May 1-15, 1922: Cases, 36; deaths, 19. June 1-30, 1922: Cases, 87; deaths, 15.
Peru				
Philippine Islands:				
Manila	June 3	1	1	From S. S. Taisang from Amoy, China.

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

Reports Received from July 1 to September 8, 1922—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	July 31-Aug. 6.....		1	
Senegal:				
Dakar.....	June 1-30.....	1	1	
Siam:				
Bangkok.....	Apr. 30-June 3.....	4	3	
Do.....	July 2-15.....	2	2	
Straits Settlements:				
Singapore.....	Apr. 30-June 24.....	8	9	
Do.....	July 9-15.....	1	1	
Syria:				
Beirut.....	July 30.....	2		
Tunis:				
Tunis.....	June 30-July 27.....	3	1	July 20 and 21: Cases reported.
Union of South Africa:				
Orange Free State— Grootkom Farm.....	May 7-13.....			One dead plague-infected rodent found. Locality adjoins Tru- cart's Berg Farm, on which plague-infected mouse was found preceding week.
Rendezvous Ry. Sta- tion.....	May 14-20.....			Plague-infected wild rodent found near.
On vessels:				
S. S. Ardeola.....	June 25-July 8.....			At Liverpool. Four plague-in- fected rats found dead. Vessel from Las Palmas, Canary Is- lands, June 26, 1922.
Greek vessel.....	July 19.....			At Messina, Italy. Cases on board. Vessel not allowed to enter.
S. S. Southgate.....	May 30.....	1		At Thursday Island quarantine, Australia. Vessel left Calcutta May 2; Rangoon, May 9. Ves- sel badly rat infested.
S. S. Taisang.....	June 1-3.....	1	1	At Manila, P. I., from Amoy, China. Patient landed at Ma- nila June 1, 1922. The Taisang was 2½ days en route direct from Amoy.

SMALLPOX.

Arabia:				
Aden.....	May 7-June 24.....	69	21	
Do.....	July 2-Aug. 5.....	38	20	
Argentina:				
Rosario.....	June 1-30.....		3	
Asia Minor:				
Smyrna.....	May 14-June 24.....	4		In district.
Do.....	June 25-July 15.....	12		Do.
Bolivia:				
La Paz.....	Mar. 1-Apr. 30.....	97	16	
Brazil:				
Bahia.....	June 25-July 1.....	1	1	
Para.....	May 29-June 25.....	8		
Do.....	July 3-Aug. 6.....	77	1	
Rio de Janeiro.....	May 14-June 24.....	48	12	
Do.....	June 25-July 29.....	48	8	
Sao Paulo.....	Apr. 10-June 11.....	3	10	
British East Africa:				
Kenya Colony.....				Apr. 1-May 31, 1922: Cases, 10.
Dar es Salaam.....	Apr. 16-June 10.....	26		
Nairobi.....	Mar. 1-31.....	22	2	
Zanzibar.....	May 1-June 10.....	36	6	
Do.....	June 24-July 1.....	2		
Canada:				
Alberta—				
Calgary.....	June 18-24.....	1		
Manitoba—				
Winnipeg.....	May 6-June 17.....	3		
New Brunswick—				
Kent County.....	June 25-July 1.....	2		
Madawaska County.....	June 4-17.....	6		

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

Reports Received from July 1 to September 8, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Ontario—				
Fort William and Port Arthur.....	Aug. 6-19.....	2	.....
Hamilton.....	July 30-Aug. 12.....	2	.....
North Bay.....	June 3-17.....	2	.....
Do.....	July 16-Aug. 12.....	3	.....
Ottawa.....	June 11-July 1.....	17	.....
Do.....	July 2-Aug. 19.....	13	.....
Toronto.....	June 18-July 29.....	6	.....
Ceylon:				
Colombo.....	May 14-20.....	1	.....
Do.....	July 16-22.....	1	.....
Chile.				
Concepcion.....	Mar. 14-June 20.....	.....	71	Prevalent, July 3, 1922, throughout southern Provinces.
Do.....	June 27-July 17.....	.....	11	
Quillon.....	.....	.....	.....	In Concepcion Province; Epidemic in May, 1922, with 60 reported cases. To June 5. Epidemic.
Do.....	June 27-July 3.....	.....	.....	Epidemic.
San Patricio.....	May 16-22.....	13	.....
Talcahuano.....	May 22-June 24.....	33	19	May 16-22, 1922: Present.
Do.....	June 25-July 2.....	5	2	
Temuco.....	.....	.....	.....	Province of Cautin; epidemic in May, 1922.
Valparaiso.....	Mar. 26-June 19.....	.....	115	Incomplete; several districts not reporting.
Do.....	June 25-July 30.....	.....	46	
China:				
Amoy.....	May 7-20.....	.....	.....	Present. June 18-24; 1 death.
Anting.....	May 29-June 18.....	4	.....
Do.....	July 3-16.....	5	.....
Chungking.....	May 28-June 24.....	.....	.....	Present.
Do.....	June 25-July 15.....	.....	.....	Do.
Foochow.....	May 14-20.....	1	.....
Hankow.....	June 25-July 1.....	1	.....
Hongkong.....	May 14-June 24.....	41	22	
Manchuria—				
Dairen.....	May 15-June 18.....	4	1	
Do.....	June 26-July 17.....	4	1	
Harbin.....	May 22-28.....	1	.....
Mukden.....	June 18-24.....	.....	.....	Present.
Do.....	July 16-22.....	.....	.....	Do.
Nanking.....	May 7-June 24.....	.....	.....	Do.
Do.....	June 25-July 15.....	.....	.....	Do.
Shanghai.....	May 22-28.....	1	.....	Native.
Tientsin.....	May 14-20.....	.....	.....	Present.
Tsingtau.....	May 9-June 18.....	4	3	Including leased territory of Kiaochow, Japanese population along Shantung Railway and Japanese residents, Tsinan.
Do.....	June 26-July 16.....	3	2	Do.
Chosen (Korea):				
Chemulpo.....	May 1-31.....	1	.....
Fusan.....	May 1-June 30.....	147	69	
Seoul.....	do.....	26	5	
Cuba:				
Antilla.....	June 18-24.....	1	.....	Reported for Preston.
Chenuecos.....	June 24-July 1.....	1	.....
Santiago.....	June 1-30.....	3	.....
Dominica.				
Dominica.....	Aug. 5.....	.....	.....	Present. Aug. 28: Epidemic. Island in Leeward Islands.
Dominican Republic:				
San Pedro de Macoris.....	May 21-June 24.....	167	2	City and country. Corrected report.
Do.....	July 16-29.....	62	1	Including vicinity.
Do.....	June 25-July 22.....	136	1	City and district.
Santo Domingo.....	June 4-24.....	3	9	Including vicinity.
Do.....	June 25-July 29.....	2	4	July 26-Aug. 5, 1922: A few cases, city and vicinity.
Ecuador.....				
Ecuador.....	July 16-31.....	2	.....
Egypt:				
Cairo.....	Apr. 30-May 20.....	9	3	
Port Said.....	May 7-June 17.....	2	.....

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

Reports Received from July 1 to September 8, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Finland.....	June 1-30.....	2		
Do.....	July 1-15.....	1		
Fiunae.....	June 13-19.....	1		
Do.....	July 10-16.....	1		
France:				
Paris.....	June 1-10.....	1	1	
Great Britain:				
Halifax.....				Outbreak reported under date of June 17, 1922.
Huddersfield.....				Do.
London.....	July 30-Aug. 5.....	1	1	
Sheffield.....	May 28-June 17.....	5		
Southampton.....	June 18-24.....	2		
Greece:				
Saloniki.....	May 1-June 25.....	3	1	
Syra Island.....	May 26.....	12	5	
Haiti:				
Cape Haitien.....	June 11-17.....	1		
Plaine du Nord.....	do.....			Vicinity of Cape Haitien. Present.
India:				
Bombay.....	Apr. 23-June 24.....	38	17	Feb. 26-Mar. 25, 1922: Deaths, 1,162 (date of report corrected).
Calcutta.....	do.....	94	67	Mar. 26-May 20, 1922: Deaths, 6,015. June 4-17: Cases, 1,941; deaths, 651.
Do.....	June 23-July 22.....	11	10	
Karschi.....	May 23-June 24.....	35	9	
Do.....	July 16-Aug. 1.....	14	4	
Madras.....	May 14-June 24.....	207	94	June 19-25: Cases, 30; deaths, 15.
Do.....	July 2-29.....	180	91	
Rangoon.....	May 7-June 24.....	37	16	
Do.....	July 2-22.....	21	6	
Japan:				
Kobe.....	June 19-25.....	2		
Taiwan Island.....	June 11-30.....	26	3	
Yokohama.....	May 29-June 25.....	4	2	
Do.....	June 26-July 20.....	48	8	
Java:				
West Java—				
Batavia.....	Apr. 23-June 30.....	20	3	City and Province.
Do.....	July 9-21.....	7	6	
Luxemburg.....	June 15-30.....	1	1	
Malta.....	May 1-June 15.....	4		
Mesopotamia:				
Bagdad.....	Apr. 1-May 31.....	12	7	
Mexico:				
Chihuahua.....	June 22-July 2.....		1	
Guadalajara.....	May 1-31.....	7		
Manzanillo.....	June 6-25.....		4	Estimated cases, 4 to 10.
Do.....	June 27-July 3.....	6	1	Estimated.
Mexico City.....	May 21-June 24.....	129		Including municipalities in Federal District. Report, June 11-17, not received.
Do.....	June 25-July 15.....	68		Including municipalities in Federal District.
Nogales.....	July 22-Aug. 5.....	28	3	State of Sonora.
San Luis Potosi.....	July 23-Aug. 19.....		7	
Torreon.....	July 1-31.....		1	
Panama:				
Colon.....	July 16-31.....	1		
Peru.....				May 1-15, 1922: Cases, 5; deaths, 4. June 1-30, 1922: Cases, 16; deaths, 7.
Poland.....				Mar. 23-June 3, 1922: Cases, 1,022 deaths, 218.
Portugal:				
Lisbon.....	May 29-June 25.....	6	8	Corrected report.
Do.....	June 26-July 30.....	44	22	July 22-Aug. 5: Cases, 19; deaths, 4.
Portuguese West Africa:				
Angola—				
Loanda.....	June 25-July 1.....		1	
Russia:				
Esthonia.....	May 1-June 30.....	6		
Lettonia.....	May 1-31.....	30		
Senegal:				
Dakar.....	June 1-30.....	4	4	

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

Reports Received from July 1 to September 8, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.	
Spain:					
Barcelona.....	June 22-28.....		1		
Do.....	June 29-July 5.....		1		
Coruna.....	June 11-17.....		1		
Huelva.....	Apr. 1-June 30.....		4		
Seville.....	June 11-17.....	36		Week ended June 11: Many cases.	
Do.....	June 18-July 30.....		87		
Valencia.....	May 21-27.....	1			
Straits Settlements:					
Singapore.....	Apr. 30-June 5.....	11	2		
Switzerland:					
Basel.....	May 28-June 3.....	1			
Berne.....	May 14-20.....	1			
Do.....	July 9-Aug. 5.....	4			
Lucerne.....	July 1-31.....	1			
Zurich.....	Apr. 23-June 24.....	9			
Do.....	June 25-Aug. 5.....	19			
Syria:					
Aleppo.....	June 4-24.....			Present.	
Damascus.....	June 18-24.....		2		
Do.....	June 25-July 23.....	7	2		
Tunis:					
Tunis.....	July 17-23.....	1			
Turkey:					
Constantinople.....	May 21-June 24.....	21	6		
Do.....	June 25-July 23.....	12	2		
Union of South Africa:					
Cape Province.....					
Do.....	June 4-17.....			Apr. 1-May 31, 1922: Cases, 11; deaths, 10 (colored); white, cases, 33. Apr. 1-May 31, 1922: Cases, 82; deaths, 1 (colored); white, 3 cases. Outbreaks. Do.	
Do.....	June 25-July 1.....				
Natal.....					
Do.....	Apr. 1-May 31, 1922: Cases, 20; deaths, 8 (colored); white, 20 cases. May 1-31, 1922: Cases, 12; deaths, 1 (colored). Outbreaks.				
Orange Free State.....					
Do.....	June 4-17.....				
Southern Rhodesia.....					
Do.....	May 11-June 28.....	67	4		
Do.....	June 29-July 12.....	29			
Transvaal.....					
Do.....	Apr. 1-May 31, 1922: Cases, 48 (colored); white, 10 cases. Outbreaks.				
Do.....	June 4-17.....				
Johannesburg.....	May 1-31.....	1			
Virgin Islands:					
St. Thomas.....	June 5-18.....	1	1	At quarantine. From vessel from Dominican Republic. Sept. 4-24, 1921: Cases, 11; deaths, 4.	
Yugoslavia:					
Croatia—					
Zagreb.....	June 4-10.....	1		Oct. 23-29, 1921: Cases, 5.	
Serbia.....					
Belgrade.....	June 11-17.....	1			
On vessels:					
S. S. Changsha.....	May 11.....	1		At Hongkong, China. Case landed from vessel; patient, intending passenger. Vessel proceeded to Australian ports.	
S. S. Comeric.....	do.....	1		At sea, en route to Durban, S. A., from Sydney, Australia. (Public Health Reports, June 23, 1922, p. 1555.)	
Schr. Fancy Mo.....	May 28.....			At St. Thomas, Virgin Islands. From San Pedro de Macoris, Dominican Republic. One case removed to quarantine June 5, died June 18.	
S. S. Shelley.....	Apr. 19.....	1		At sea, en route from Hongkong. Vessel left Hongkong Apr. 17. Arrived Thursday Island quarantine, Australia, Apr. 23, 1922. Case, member of crew; type, confluent hemorrhagic.	

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

Reports Received from July 1 to September 8, 1922—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
On vessels—Continued.				
S. S. St. Albans.....	May 18.....	1		At Thursday Island quarantine, Australia. Case in person of Chinese steerage passenger. Vessel left Shimonoseki, Japan, for Melbourne via Hongkong and Manila. Left Thursday Island for Australian ports.

TYPHUS FEVER.

Algeria:				
Algiers.....	May 1-31.....	16	4	
Oran.....	June 1-30.....	3	1	
Do.....	July 1-Aug. 10.....		3	
Asia Minor:				
Smyrna.....	May 14-June 24.....	8		City and district. Corrected report.
Do.....	June 25-Aug. 5.....	7		
Austria:				
Vienna.....	May 7-June 10.....	3	1	
Do.....	July 2-15.....	2	1	
Bolivia:				
La Paz.....	Mar. 1-Apr. 30.....	15	8	
Bulgaria:				
Sofia.....	May 28-June 17.....	4		
Chile:				
Concepcion.....	Apr. 11-May 29.....		10	
Do.....	June 27-July 3.....		1	
Valparaiso.....	Apr. 2-22.....		6	
China:				
Amoy.....	May 15-21.....	1		
Peechow.....	May 14-20.....	1		
Hankow.....	July 9-15.....	1	1	
Manchuria—				
Harbin.....	May 8-June 11.....	4		
Do.....	June 26-July 2.....	3		
Czechoslovakia:				
Prague.....	June 11-17.....	1		
Danzig (Free City).....	June 4-10.....	1		
Egypt:				
Alexandria.....	June 4-24.....	9	6	
Do.....	June 25-July 29.....	12	3	July 22-29: 1 imported paratyphoid.
Cairo.....	Mar. 19-May 20.....	61	40	Relapsing fever, Mar. 26-Apr. 8: 1 case.
Port Said.....	May 28-June 3.....	1		
Do.....	July 2-8.....	1		
Germany:				
Berlin.....	Apr. 30-June 24.....		7	May 1-6, 1922: Five cases typhus fever at quarantine station of Osternothafen, in persons returning from Russia.
Do.....	June 25-July 1.....		3	
Coblenz.....	July 2-Aug. 5.....	5		
Königsberg.....	May 28-June 3.....	1		
Greece:				
Saloniki.....	May 1-June 18.....	25	1	
Mesopotamia:				
Bagdad.....	Apr. 1-May 31.....	6	1	
Mexico:				
Mexico City.....	Apr. 23-June 24.....	111		Including municipalities in Federal District.
Do.....	June 25-July 8.....	23		
Norway:				
Province—				
Finmarken.....	July 26-Aug. 5.....	12	2	Occurring in 3 localities.
Palestine:				
Jerusalem.....	June 27-July 3.....	1		
Persia:				
Teheran.....	Mar. 22-Apr. 22.....		1	
Poland:				
Warsaw.....	Apr. 23-June 24.....	156		Mar. 26-Apr. 22, 1922: Cases, 7,155; Apr. 23-June 3, 1922: Cases, 7,178; deaths, 499. Recurrent typhus—Mar. 26-Apr. 22, 1922: Cases, 4,515; deaths, 155. Apr. 23-May 6, 1922: Cases, 1,598; deaths, 34. (Corrected report.) May 7-June 3, 1922: Cases, 2,817; deaths, 72. Among transient and permanent residents.

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

Reports Received from July 1 to September 8, 1922—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Oporto.....	May 4-June 24.....	9	4	
Do.....	June 29-July 5.....	1		
Seixal.....	Aug. 4.....	1		Village opposite Lisbon.
Rumania.....				Apr. 1-May 31, 1922: Cases, 62.
Cities—				
Bucharest.....	May 1-31.....	14		
Cerenauti.....	do.....	5		
Chisinau.....	Apr. 1-30.....	21		
Cluj.....	May 1-31.....	18		
Constanza.....	do.....	1		
Galata.....	do.....	1		
Sulina.....	do.....	2		
Provinces—				
Bucovina.....	Jan. 1-31.....	35	13	
Chisinau.....	Apr. 1-30.....	14		Recurrent typhus: Cases, 7.
Transylvania.....	Jan. 1-31.....	16	3	
Russia:				
Esthonia.....	Apr. 1-June 30.....	41		
Lettonia.....	Apr. 1-May 31.....	524		Recurrent typhus: Cases, 24.
Spain:				
Madrid.....	May 1-June 30.....		16	
Seville.....	May 21-June 3.....		1	
Tunis:				
Tunis.....	June 4-10.....	2		
Turkey:				
Constantinople.....	May 21-June 24.....	16		
Do.....	July 9-29.....	11	2	
Union of South Africa.....				April 1-May 31, 1922: Cases, 733; deaths, 134 (colored); white, 8 cases.
Cape Province.....				Apr. 1-May 31, 1922: Cases, 638; deaths, 125 (colored); white, 7 cases.
Do.....	June 4-24.....			Outbreaks.
Natal.....	Apr. 1-May 31, 1922: Cases, 26; deaths, 4 (colored).			Outbreaks.
Do.....	June 4-17.....			Do.
Do.....	June 25-July 1.....			Do.
Orange Free State.....				Apr. 1-May 31, 1922: Cases, 49; deaths, 2 (colored); white, 1 case.
Do.....	June 4-24.....			Outbreaks.
Transvaal.....				Apr. 1-May 31, 1922: Cases, 23; deaths, 2 (colored).
Do.....	May 28-June 3.....			Outbreaks.
Do.....	June 18-July 1.....			Do.
Johannesburg.....	May 1-June 30.....	7	1	
Yugoslavia.....				Aug. 7-13, 1921: 2 new cases; (1921.)
Bosnia-Herzegovina.....	Aug. 7-13.....	1		Do.
Croatia-Slavonia.....	Sept. 4-10.....	1		
Serbia—				
Belgrade.....	May 6-June 3.....	2		
Voivodina.....	Aug. 7-13.....	1		(1921.)
From vessels:				
S. S. Chios.....	July 18.....	1		At Kavak quarantine station, Bosphorus, from Novorossysk, a Russian Black Sea port. Vessel carried refugees for Saloniki, Greece. Six bodies buried at sea, 12 landed at Kavak.
S. S. Smolensk.....	June 14.....	1	1	From Danzig, May 30, 1922. At embarkation detention camp, Southampton, England. Public Health Reports, June 30, 1922, p. 1610.

YELLOW FEVER.

Mexico:				
Tampico.....	July 27-29.....	1	1	From Panuco. Patient brought to Tampico on eighth day of illness.
Do.....	Aug. 30.....		6	Of these, 5 with origin at Panuco, State of Vera Cruz; 1 with origin at Tampico.