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THE INCOME CYCLE IN THE LIFE OF THE WAGE-EARNER.¹

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In his classic study of poverty in York, England,² Rowntree observed that the life of a laborer is marked by "alternating periods of want and comparative plenty." He was speaking, of course, of a population group which was very close to the poverty line, and called especial attention to the fact that "every laborer who has as many as three children must pass through a time, probably lasting for about 10 years, when he will be in a state of 'primary' poverty."

Obviously, such a state of "primary poverty" would recur during the life of an individual, unless an unusual change in his economic status took place, and a sort of cycle would be set up—a phenomenon which Rowntree undoubtedly had in mind when he drew the accompanying graphic illustration which appeared in his book.

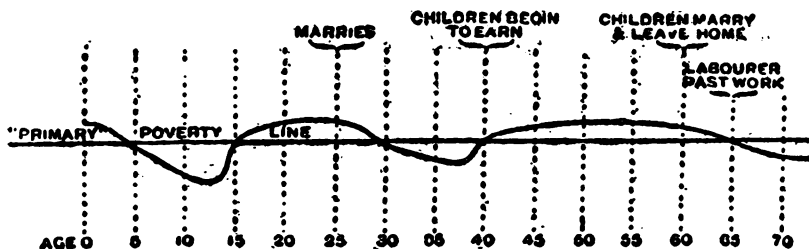


FIG. 1

His own description of the York laborer's economic ups and downs is as graphic as the diagram, and is quoted below:

"During early childhood, unless his father is a skilled worker, he probably will be in poverty; this will last until he, or some of his brothers or sisters, begin to earn money and thus augment their father's wage sufficiently to raise the family above the poverty line. Then follows the period during which he is earning money and living under his parents' roof; for some portion of this period he will be earning more money than is required for lodging, food, and clothes. This is his chance to save money. If he has saved enough to pay for furnishing a cottage, this period of comparative prosperity may

¹ From Field Investigations of Pellagra, United States Public Health Service.

² B. Seebohm Rowntree: *Poverty—A study of town life*, 2d edition. London, 1922.

continue after marriage until he has two or three children, when poverty will again overtake him. This period of poverty will last perhaps for 10 years, i. e., until the first child is 14 years old and begins to earn wages; but if there are more than three children it may last longer. While the children are earning, and before they leave home to marry, the man enjoys another period of prosperity—possibly, however, only to sink back again into poverty when his children have married and left him, and he himself is too old to work, for his income has never permitted his saving enough for him and his wife to live upon for more than a very short time.”

There can be no question of the truth of the general principle in Rowntree's observation, even among families well above the line of actual deprivation at all times. For aside from any specific causes of financial stress in family life, such as unemployment, sickness, and death, variations in the size of the burden upon income in the ordinary family are inevitable and are well known. In families whose income is very close to the margin of bare subsistence this variation can not but have some effect upon their well-being.

The detailed study of the economic status of about 4,000 families of workers in 24 South Carolina cotton-mill villages made in connection with an epidemiological investigation of pellagra in 1917 afforded a considerable amount of material that it was thought could be utilized for the purpose of describing more exactly the nature of this income cycle in a wage-earning population in the United States. The result of such an analysis could not, of course, be set forth as a generalization applicable to all population classes; but because of the fact that the particular population studied was close to the margin of subsistence, the data lent themselves especially well for illustrating in a very elementary manner the character of the variations in economic status at different stages of family life.

A very simple analysis of the data was made. The first step was to rate each family according to economic status, the measure used being the average weekly family income per annum for the two months preceding the visit. Data on family income were carefully collected in considerable detail from responsible informants in each family and from mill payrolls. The method of computing income per annum has been described already by us in previous papers.³

The families having been classified according to economic status, two procedures were adopted for ascertaining variations in economic status at different stages of family life. One was to approach the problem from the point of view of the family as a unit; the other, from the point of view of the individual at different ages. It was fully realized that actually we were not following the history of a group of families but were trying to construct such a history from

³ Sydenstricker, Edgar, and King, Willford I: *Income classification of families in studying disease prevalence*, Public Health Reports, Nov. 26, 1920; *The measurement of the relative economic status of families*, Quarterly Publication of the American Statistical Association, September, 1921.

a cross section of a considerable number of families which were at different economic stages. While this procedure can not give a true chronology, it does give a picture from which is eliminated the influence of such variants as periods of industrial depression or unusual activity, with their changes in opportunity for employment, in wage rates, and in the cost of living.

To depict the economic variations in family life, the families of married women appearing on the family schedule were classified

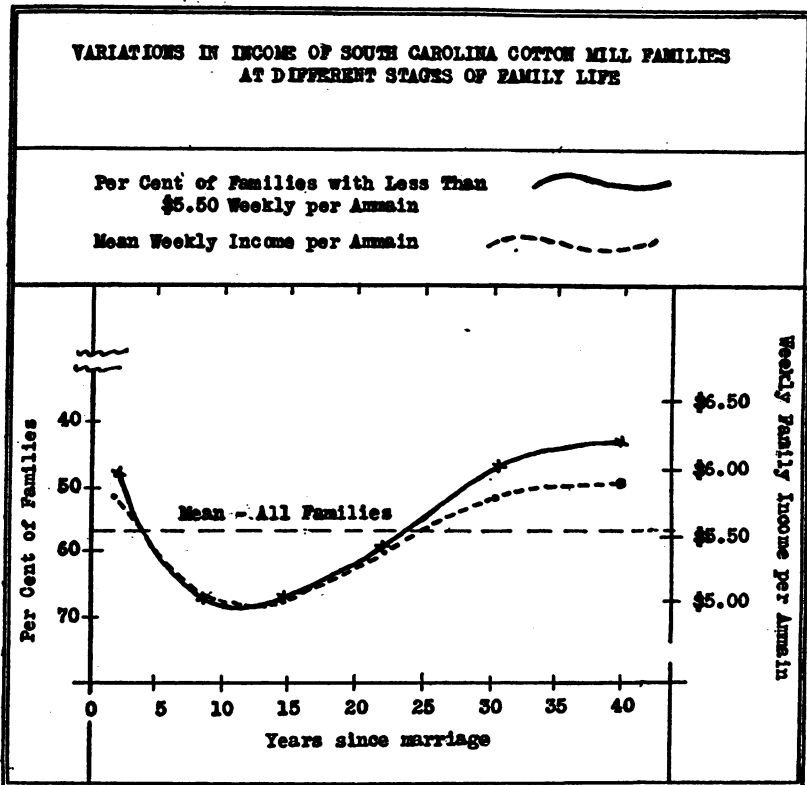


FIG. 2.

according to the period that had elapsed since their marriage, each class representing broadly a stage of family history. The analysis included the families of 3,884 women in 24 cotton-mill villages, a number and distribution sufficient to give a fairly correct picture for this class of our population. The mean income of the families was computed for each group, as well as the number and per cent whose income fell below \$5.50 per ammain per week, which was about the average for the entire population. The results are given in Table 1 and Figure 2.

TABLE 1.—*Family income and stage of family life.*

[3,384 families of cotton-mill workers in South Carolina, 1917.]

Period since marriage of wife (years).	Number of families.	Mean weekly family income per annum.	Families having a weekly income of less than \$5.50 per annum.	
			Number.	Per cent.
All periods.....	3,384	\$5.44	2,212	56.9
0-5.....	793	5.79	385	48.5
6-11.....	835	5.07	588	66.8
12-17.....	662	5.01	414	66.5
18-26.....	786	5.37	468	59.5
27-34.....	435	5.77	205	47.1
35+.....	413	5.90	182	44.1

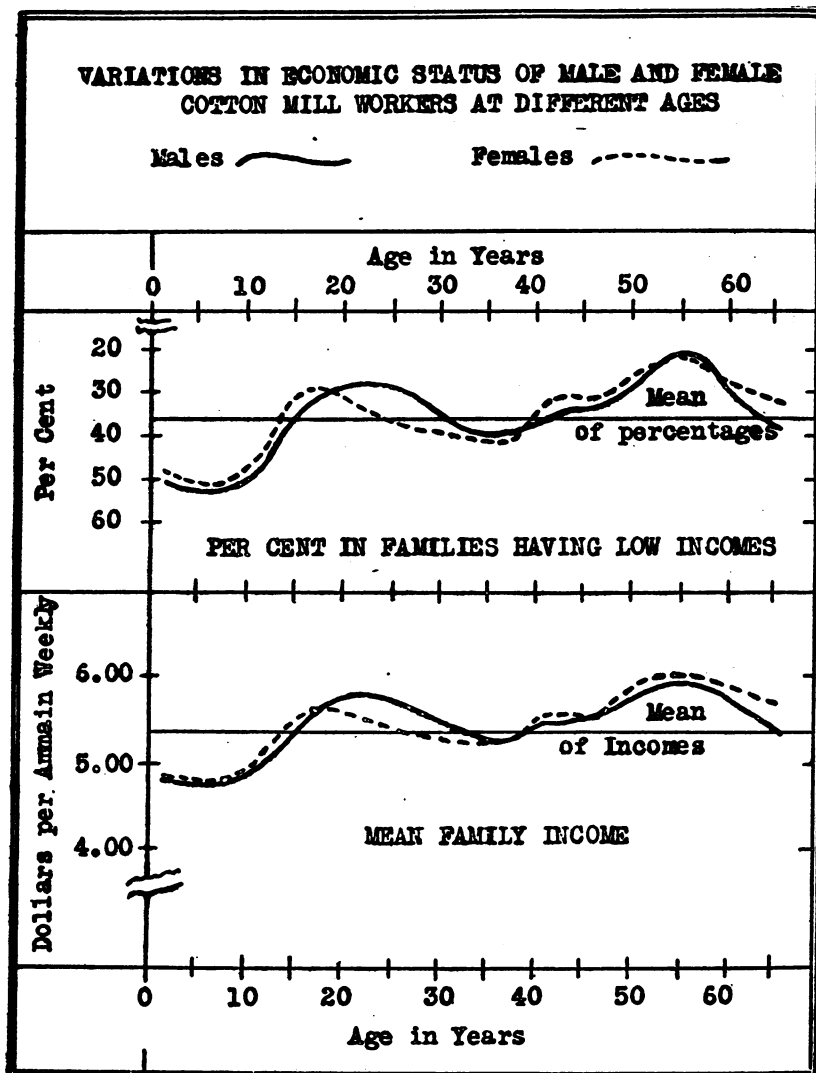


FIG. 3.

The variation, it will be noted, is considerable. In the first few years of married life the family income is above the mean. In the cotton-mill villages it is customary for both the man and wife to work, and their joint income is relatively sufficient for subsistence and even for some saving. With the coming of children, however, not only are earnings reduced but expenses are increased and the economic status of the family rapidly falls to a relatively low level and remains there for about 10 or 15 years until the children begin to work in the mills. The average number of children per family was between 3 and 4, and the age at which they began work was about 14 at the time the study was made. With the additional earnings by children, family income increases and the economic status of the family improves.

The curve shown in Figure 2, however, is only a segment of the curve for the entire life of the cotton-mill worker. So far as it goes, it is similar to that used by Rowntree, except for the older ages where, instead of going down, it continues to rise. It was felt that the divergence from what Rowntree observed for older ages as well as from our own general observation might be due to the selection of the families for this particular analysis, namely, those families in which older married women of different ages were actually living might be families whose incomes were relatively high.

In another tabulation all families were classified according to their incomes, and the age distribution of the members of the families within each income class were studied. In Table 2 are shown the proportion of persons of each age, for either sex, who were in a distinctly low income class, and the mean income of the families of which persons of each age group were members. The results are graphically shown in Figure 3.

TABLE 2.—*Age of individual and family income.*

[21,714 persons in 4,000 families of cotton mill workers in South Carolina, 1917.]

Age (years).	Number of persons.		Mean weekly family income per annum.		In families having weekly incomes of less than \$4.50 per annum.			
					Number of persons.		Per cent of total persons.	
	M	F	M	F	M	F	M	F
0-5-----	1,660	1,564	\$4.83	\$4.87	822	739	49.5	47.3
5-9-----	1,556	1,499	4.75	4.79	813	761	51.9	50.7
10-14-----	1,313	1,247	4.91	5.10	604	545	46.0	43.7
15-19-----	1,184	1,486	5.49	5.63	379	434	32.0	29.2
20-24-----	1,027	1,347	5.79	5.53	275	460	28.8	34.1
25-29-----	868	974	5.68	5.36	261	382	30.1	39.2
30-34-----	752	701	5.42	5.27	293	285	38.9	40.7
35-39-----	634	635	5.25	5.21	257	269	40.5	42.4
40-44-----	463	480	5.44	5.57	163	152	35.2	32.7
45-49-----	362	332	5.51	5.51	123	111	34.0	33.4
50-54-----	258	254	5.76	5.93	71	67	27.6	26.4
55-59-----	194	222	6.00	5.94	42	54	21.7	24.3
60-64-----	163	147	5.60	5.78	55	44	33.7	29.9
65+-----	179	213	5.33	5.66	72	71	40.4	32.6

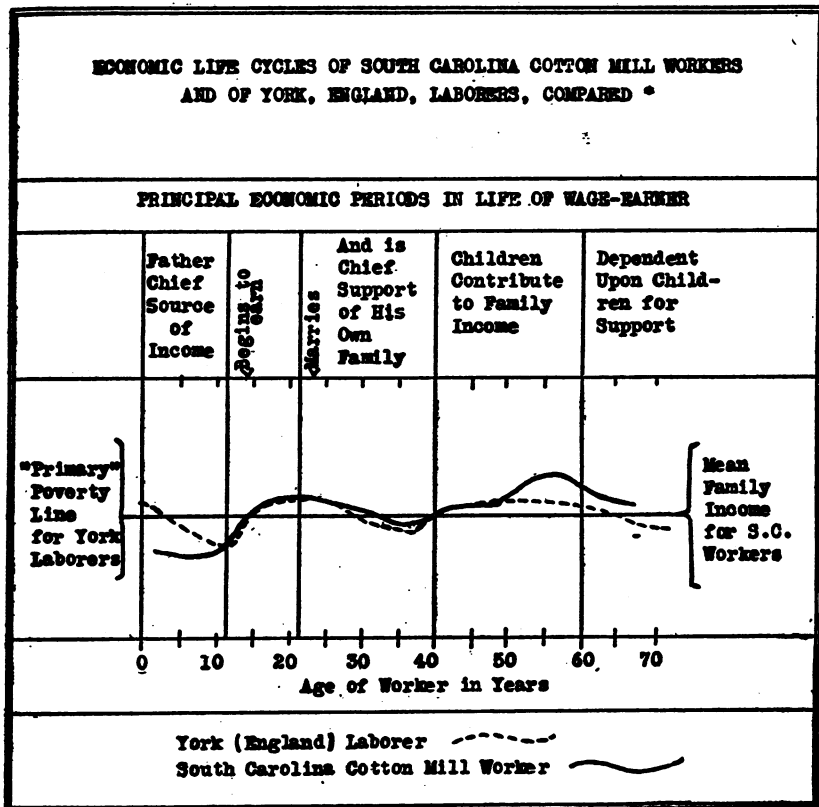
Here, it is believed, a more complete picture has been obtained. Confining our attention for the moment to the graphs for females, it is seen that in the age period 15-19 the income of the families in which they live is relatively high. The modal age at which marriage occurs among women is 18, and soon thereafter their economic status declines, the decline continuing until the age of 40, where a marked improvement is shown. This improvement continues until about the age of 55, when another decline sets in. The variation for males is generally quite similar to that of females except that the decline in economic status in the young adult period does not manifest itself until some five years later, a fact which is accounted for by the older ages at which men marry, the modal age of marriage for males being about 23.

Aside from the general character of the "economic cycle" in the lives of the cotton mill workers, probably the two most interesting variations are the relatively low economic level at which children under 10 years of age and the relatively high economic level at which persons of late middle age were found to be living in the cotton mills. The first is due to the fact that in childhood the largest number of persons are dependent upon each dollar of income and the breadwinner is rarely in the highest paid occupations. The second is due to the facts that in the late middle years the heads of a considerable proportion of the families are in the best paid occupations, and that one or more of his married children live with him, forming a single economic group which has a large proportion of wage-earning numbers. This cross-section picture, therefore, does not indicate that all "young" families in the population—i. e., man, wife, and non-wage-earning children—pass through what Rowntree termed the "primary poverty" stage, since some of them were found to be in households supported by additional wage-earners.

In Figure 4 an attempt has been made to compare the curve for economic status at different ages of South Carolina cotton-mill workers in 1917 with the curve for York laborers as Rowntree drew it. The fitting was not done mathematically, and is crude, but it is probably as exact as the data warrant. The descriptive legends explain themselves. Except for the relatively lower economic level for children and the higher level for older adults, to which reference has been made above, the variations are generally similar in magnitude and with respect to the ages at which they occur.

Such significance as may be given to these variations in economic well-being from the point of view of health is, of course, quite general. As a warning against too specific interpretation from this point of view it should be stated that the age incidence of a disease, for example, properly can not be related to the variation in economic status, even in a population close to the poverty line, unless one

already knows quite definitely what its age incidence is in similar populations not affected by economic conditions, or unless one already knows that it is definitely associated with poverty. In the case of this particular population, the incidence of pellagra was high in 1917, and the disease has been shown to have been definitely associated with low family income.⁴ The suggestion, at least, is afforded that the peculiar age incidence of pellagra⁵ may have been determined in some measure by the age incidence, so to speak, of low



* For S. C. Mill Workers, data based on study of 21,714 persons in 1917; for York Laborers, see Rowntree's "Poverty".

FIG. 4.

income under the particular conditions of food supply prevailing at the time in these communities.

Aside from this suggestion, however, our study goes no further than to outline the general character of the "economic cycle" in the lives of an actual wage-earning population and to indicate that at

⁴ Goldberger, Wheeler, and Sydenstricker: A study of the relation of family income and other economic factors to pellagra incidence in seven cotton-mill villages of South Carolina in 1916. Pub. Health Rep., Nov. 12, 1920. (Reprint No. 621.)

⁵ Goldberger, Wheeler, and Sydenstricker: Pellagra incidence in relation to sex, age, etc., in seven cotton-mill villages of South Carolina during 1916. Pub. Health Rep. July 9, 1920. (Reprint 601.)

certain periods in the lives of such population the pressure of economic conditions is measureably greater than at other periods. That it may be sufficient to affect the well-being of the persons concerned is a possible corollary that should be kept in mind.

CORRESPONDENCE AND READING COURSES IN PUBLIC HEALTH.

For more than 12 months the Public Health Service has been collecting from the executive officers of State departments of health and from the universities with which "Class A" medical schools are affiliated, data regarding correspondence and reading courses in public health. Reports received to June 1, 1924, indicate that courses have been conducted during the past two years by seven State departments of health and by six universities.

Of the courses given by departments of health, five are for sanitarians—those conducted in Kansas, Illinois, Ohio, New Mexico, and Pennsylvania. In addition, the Virginia State Health Department offers a correspondence course for teachers; in both Virginia and Minnesota a course is given in the hygiene of maternity and infancy for mothers; and a second course is offered in Pennsylvania, one for persons connected with industries, schools, and with civic and religious organizations.

In no case is tuition charged for the courses conducted by State departments of health. Mimeographed or printed lessons are distributed in several instances, and in two cases textbooks are used. Those taking the course are required to answer questions by mail from time to time, in four or five instances in connection with each lesson. The number enrolled varies a great deal, as will be seen in the reports of the various courses; so also does the length of the course.

The correspondence courses offered by universities are in five instances conducted by the extension division of the university and in one case by the department of hygiene. One university conducts only one course; two conduct two courses; two, four courses; and one conducts seven courses. Most courses appear to be offered primarily for those who are now or intend to be engaged in public-health work, although a few courses apparently are for laymen. In all cases tuition is charged, textbooks are used, and examinations are given. Academic credit is granted for all courses, except in one university where credit is given when the student is enrolled in the school of education but not when he is enrolled in the school of medicine. The length of courses varies from 20 to 40 lessons. While the courses offered by universities may have a more dignified status than those offered by State departments of health, the number of students enrolled, as will be seen, is not so large.

COURSES CONDUCTED BY STATE DEPARTMENTS OF HEALTH.

The Ohio State Department of Health (Columbus) has prepared a course, with the assistance of the International Health Board, for persons employed in public-health work on a full-time or part-time basis, not including, however, nurses. The work requires one year, but no definite time is set for completing it. Groups are organized from time to time, the first having begun work January 3, 1922. The months of July, August, and September are utilized for field studies under guidance of the staff of the State department of health. The text selected is MacNutt's Manual for Health Officers, in addition to which the students supply themselves with 15 other specified books. No fees are required, except a small charge to cover the cost of a certificate when the course is completed. Questions are sent out from time to time, and those who complete a satisfactory amount of work are eligible to credit for attendance at a health institute held at the time of the annual meeting of health commissioners in the fall. Since the work began 14 groups of 5 to 40 each have been organized, and of the 158 who have enrolled 34 have satisfactorily finished the course. At the time of this report, June, 1924, the course was still being conducted with apparent satisfaction to all concerned.

Dr. Emery R. Hayhurst is in charge.

The Kansas State Board of Health (Topeka), which also received assistance from the International Health Board, established in January, 1923, a correspondence course for sanitarians (mostly part-time county health officers). Forty mimeographed lectures are mailed to each student, usually at intervals of a week. The course covers almost all phases of public-health work conducted by a city or county department of health. No textbooks are used and no tuition is charged. An examination is given at the close of the course. Of the 105 who enrolled in the course in 1923, the entire number completed it. The course was repeated in 1924; in June, 13 were enrolled. Milton O. Nyberg, secretary of the board, is in charge of the course.

The division of public health nursing of the Kansas State Board of Health, with the cooperation of the State traveling libraries commission, has established a library service for public-health nurses employed throughout the State. The reading, however, does not appear to be systematically directed, so that it can hardly be classified as a reading course.

The Illinois State Department of Health (Springfield) inaugurated late in 1922 a correspondence course for the 20 district health superintendents who were at that time employed. The plan provided for the distribution of 12 monthly lessons. The first three or four lessons were prepared and placed in the hands of the district health

superintendents. By July 1, however, the appropriations of the health department had been severely curtailed, and the number of district superintendents was decreased from 20 to 7 or 8. It became necessary, therefore, to abandon the enterprise. No one completed the course, but it is still hoped by the director of the Illinois Department of Public Health, Dr. Isaac D. Rawlings, that conditions will change and permit the rejuvenation of this correspondence course.

The bureau of public health of the Department of Public Welfare of New Mexico (Santa Fe) organized for city and county health officers a correspondence course in 1920, consisting of 40 lessons given at weekly intervals. Mimeographed material was furnished for each lesson. Questions also were provided, but the answering of them was not compulsory. The course was taken by 50 persons. The director of public health, Dr. G. S. Luckett, feels that the course was satisfactory. Through the course two men were led to take up public-health work on a full-time basis. Furthermore, improvement was observed in the work of local health officers taking the course. The work has not been conducted in a systematic way since 1920, but the lessons utilized that year have been brought together by Luckett and Gray and published as a textbook in public health administration.

The Virginia State Board of Health (Richmond) operates two correspondence courses, one for teachers and one for mothers. All teachers are required by the State school law to have certain rudimentary knowledge of sanitation and hygiene and to be prepared to conduct simple physical inspections of school children. These qualifications will be required of every person who becomes or remains a teacher in Virginia after September 1, 1925. In order to help teachers meet these requirements, the State board of health established in 1920 a correspondence course in physical inspection and school hygiene which consists of 12 lessons and a final examination. A full year is allowed for its completion. Printed lessons are used, together with textbooks. About 1,200 teachers have completed the course, and in June, 1924, over 1,800 others were engaged in it. Mary I. Bell is in charge. An official of the State department of health writes:

Of those who completed the course nearly all testify that, in addition to the knowledge gained, the course is most valuable in arousing a personal interest in the health of each of their pupils and in the importance of health in general.

In addition to the final examination, questions are asked at the close of each printed lesson. They are stimulating, as will be observed from the following:

Give a brief account of the facts you teach your pupils about the characteristics of bacteria.

Have your pupils been examined for hookworm disease?

How many have been vaccinated?

How does vaccination prevent smallpox?

Has the drinking water used in your school been examined by the State board of health?

The second course conducted by the Virginia State Board of Health, the one for mothers, consists of 12 lessons. It deals with prenatal care, birth, and the care of the mother and of the infant after birth. Before the course was started it was reviewed and approved by leading obstetricians and pediatricians. To date about 500 persons have taken or are taking the course.

The Minnesota State Board of Health (St. Paul), through its division of child hygiene, conducts a correspondence course in the hygiene of maternity and infancy. It is open to mothers and other women. No tuition is charged. Fifteen printed lessons are distributed by mail. At the close of each lesson is a series of questions to be answered by mail. On June 1, 1924, 16 months after the course had been started, over 3,500 women had registered for it and about 60 per cent of these had completed it. Many of the women send in their lessons very irregularly, sometimes taking from six to eight months to complete the course. Ruth E. Boynton is in charge.

The Pennsylvania Department of Health (Harrisburg), through its division of public health education, has conducted two courses which it designated as correspondence courses. One course was for all persons connected officially or semiofficially with the State department of health, as well as for nurses, teachers, and other interested persons. A series of mimeographed lessons was sent out at regular intervals and written answers were required. The course was inaugurated in 1920 and was conducted for two years and a half. About 3,000 different persons enrolled in the course, about 90 per cent of whom appear to have completed it.

The other course consisted of a series of 24 mimeographed lessons sent out through various newspapers twice a month; in addition, a large quantity of lessons was distributed from the State capital. For the second year the lessons were issued in printed form. They were sent to schools, industries, and to civic and religious organizations. The course consisted of 12 lessons. Provision was made for written reports on each lesson. On August 28, 1923, there had been an enrollment of 1,200,000 persons from whom the State department of health had received reports. William C. Miller was in charge of both courses.

COURSES CONDUCTED BY UNIVERSITIES.

The University of Chicago maintains a large home-study department. Seven courses are given in the department of hygiene and

bacteriology. One of these is a course of high-school grade for which only "admission credit is given." The others are courses of college grade for which credit toward a bachelor's degree is granted when they are satisfactorily completed and passed by examination. These include courses in the following: Bacteriological methods, public hygiene, and in four important fields of applied bacteriology. The matriculation fee is \$10; the tuition fee for each of five 40-lesson courses is \$19, and for one 20-lesson course on public hygiene \$9.50. These courses were inaugurated in 1899. Two hundred and ninety persons have registered for one or more of them, and 124 have finished. A letter from the department of hygiene and bacteriology states:

The number of students taking correspondence work in the department of hygiene and bacteriology is very small, but I understand that most of them are actually engaged in some form of public health work, being probably mainly in laboratory positions.

Dr. H. F. Mallory is the secretary of the home-study department.

The University of Missouri (Columbia) offers through its extension division one course in preventive medicine. The student must meet the regular university requirements, be 21 years old, and properly qualified for the work. Credit is given for this course by the school of education but not by the medical school. The announcement states that correspondence work is as thorough as that done in actual attendance. The course may be begun at any time. It consists of 34 lessons. The cost is \$8. This course in preventive medicine was established in 1914-15. One hundred and seventy-six persons have enrolled in it, of whom 157 have completed the course. Further information may be obtained from Dr. Guy L. Noyes, the dean of the medical school.

The University of Wisconsin (Madison) at present offers through its extension division approximately four courses—two for mothers and women generally, one for nurses, and one for health officers. Four courses, three of them on maternity and infancy, appear to have been abandoned. However, there have been about 450 persons who, during the last six years, have enrolled in a course on "The prevention of disease and home care of the sick," and 60 per cent of them have completed the course. There are eight assignments in this course; the tuition is \$4 and the textbook costs \$2. A course entitled "Local health officers' work" also is given, for which a fee of \$4 is charged. A university official writes that sanitarians who have taken the course have expressed satisfaction and are known to have been greatly benefited. The course in public-health nursing consists of 12 assignments. The fee for it is \$5. It also has given satisfaction.

The University of Arkansas (Fayetteville) announces, through its general extension division, courses in the following subjects: School

hygiene, sewerage, water works, and illuminating engineering. Apparently this work has not been systematically promoted. The secretary of the extension division writes:

We have probably three or four students a year who take the course in school hygiene. There are fewer in sewerage and water works.

The extension division also offers for the women's clubs of Arkansas a number of courses, most of them outside the field of public health. One of these, however, is a course in child hygiene. It consists of 12 programs. A fee of only \$2.50 is charged for an entire club. Apparently the child-hygiene course has not been as popular as some of the other courses. Evangeline Pratt is the secretary of the general extension division.

The University of Kansas (Lawrence) announces through its correspondence study bureau a noncredit course in home health and home nursing "which is taken by many women over the State." Attempts to obtain detailed information regarding this course have not been successful.

The University of Tennessee (Knoxville), through its department of hygiene, offered in January, 1923, a correspondence course in personal and community hygiene. A second course which was to have been a continuation of this course was also planned, but since no students were enrolled in the first course the plan appears to have been dropped.

New York University (New York City) conducts, through the University and Bellevue Hospital Medical College, a course for health officers and another for nurses. While the former is primarily for employees of health agencies, anyone qualified can enroll in it. One week of residence is required before completion of the course, which must be within one year of the time of enrollment. The work is divided into 10 subjects, each of which is to be completed and followed by an examination before the next subject is commenced. A fee of \$25 is charged, in addition to a matriculation fee of \$5 for those who have not previously attended the university. The necessary books may be borrowed from the university on the payment of a fee of \$15, \$10 of which will be refunded if the books are returned in good condition. A certificate is awarded upon completion of the course, which requires 300 hours of reading and six days of residence. Arrangements may be made, however, to complete the work during a period of 25 days' residence. During recent years the following number of persons have received the certificate:

1920.....	62
1921.....	41
1922.....	12
1923.....	6
1924.....	7

The correspondence course for public-health nurses was begun in October, 1922. In the first class 250 nurses enrolled, of whom "150 conscientiously continued the work." The second class began in October, 1923. There were 154 enrolled. The entire number were still in the class in June, 1924. The course consists of about 25 lessons and may be completed within one year. Assignments are made from textbooks and current literature. Upon the completion of each lesson the student is required to submit an original paper. Drs. William H. Park and Edward H. Marsh are in charge of both courses.

CURRENT WORLD PREVALENCE OF DISEASE.

REVIEW OF THE MONTHLY EPIDEMIOLOGICAL REPORT FOR JULY 15, 1924, ISSUED BY THE HEALTH SECTION OF THE LEAGUE OF NATIONS' SECRETARIAT.

By EDGAR SYDENSTRICKER, Statistician, United States Public Health Service.

The statistics of the prevalence of 13 important notifiable diseases¹ in approximately 70 countries and colonies of the world, as of July 15, 1924, published in the Monthly Epidemiological Report of the Health Section, League of Nations, indicate a condition which, on the whole, is more satisfactory than for the past 12 months.

It will be remembered that the June Report suggested an unduly high prevalence of four diseases in certain countries; namely, cholera in India, malaria in Russia, lethargic encephalitis in Great Britain, and a rather widespread epidemic of measles.

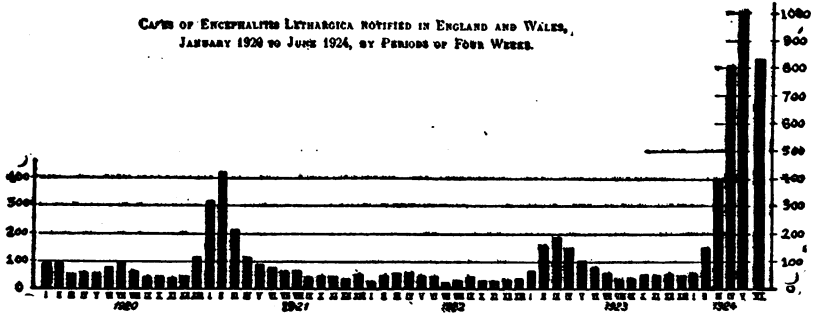
Malaria.—No new information is available on the malaria situation in Russia, but it may be presumed from the early indications as revealed in reports from the Health Commissariat of the Russian Government, published in the press and elsewhere, that the situation is far more serious than in previous years. In the middle and southern parts of Russia the peak of the incidence of the disease, judging from reports of 1922–23, does not occur until late summer and autumn, and with a much higher incidence shown for the first part of 1924, and without an adequate campaign against these diseases, one can not help from entertaining fear that the official reports, when they are made public, will show a condition which is extremely serious.

Cholera.—The spring wave of cholera in India seemed to have reached its maximum about the middle of April, and by May 10 had exhibited a considerable decline, although the mortality is still 10 times as high as it was in 1923 for the same period, and more than twice the incidence of 1922. The improvement in the situation occurred principally in the upper part of India (The United Provinces)

¹ Plague, cholera, yellow fever, typhus fever, relapsing fever, smallpox, cerebrospinal meningitis, poliomyelitis, lethargic encephalitis, influenza, scarlet fever, diphtheria, and enteric fever.

and the lower part (Bengal Presidency) of the Ganges Valley. The incidence of cholera in other parts of the world was in no instance much more than sporadic.

Lethargic encephalitis.—The month of June saw a decline in the incidence of lethargic encephalitis in England and Wales as compared with April and May. The accompanying graph shows at a



glance the incidence of the disease during the past four years and for 1924 up through the week ending June 21, and the progress of the epidemic is illustrated in the following table:

Cases of lethargic encephalitis notified in England and Wales and in certain large towns of the United Kingdom, February to May, 1924.

Week ended—	England and Wales.	London.	Bristol.	Birmingham.	Liverpool.	Manchester.	Sheffield.	Glasgow.	Belfast.
Feb. 2	19	2	0	1	2	1	0	1	0
9	37	4	0	3	2	0	0	0	1
16	33	0	0	0	0	13	0	0	0
23	61	2	1	0	0	16	0	0	0
Mar. 1	86	3	0	2	2	22	0	0	0
8	97	1	1	2	0	29	0	1	0
15	88	4	1	3	0	23	4	1	0
22	126	10	2	12	0	18	9	3	0
29	157	20	1	6	13	15	14	2	0
Apr. 5	190	17	4	20	4	13	19	1	0
12	206	23	8	27	4	10	37	3	0
19	253	33	13	29	3	5	41	3	1
26	212	81	8	17	4	5	26	5	4
May 3	278	50	12	20	6	4	23	14	20
10	290	82	13	23	9	9	19	30	21
17	236	43	14	11	4	6	22	41	30
24	261	28	22	17	14	8	17	45	37
31	251	30	7	16	8	4	10	65	12
June 7	179	23	4	11	10	0	10	46	17
14	171	33	8	6	4	3	6	47	5
21	161	25	5	9	3	5	7	22	6

In Italy there were 36 cases of lethargic encephalitis during the four weeks ending June 7, as against 92 and 187, respectively, during the two preceding four-week periods. No unusual incidence is indicated in other countries.

Measles.—With reference to measles, the Epidemiological Report remarks:

The present tendency of measles differs considerably in the various countries; in some parts of northern and central Europe new epidemics seem to be devel-

oping, while in other parts of Europe, as, for instance, in Great Britain and Italy, the incidence is declining. The general impression gained is that this disease is rather active.

Increases in the prevalence of measles are noted in France, Latvia, Norway, Denmark, and Hungary, according to the latest reports available. Decreases were noted in Iraq, Ukraine, Poland, Bulgaria, Yugoslavia, Italy, Turkey, and the United States.

Plague.—The plague epidemic in India appeared to have reached its maximum about the middle of April, the returns for the first two weeks of May showing a distinct improvement. The decrease seems to be rather general all over India, and new outbreaks of importance are not to be expected until the autumn. The seriousness of the 1924 plague situation in India is revealed in a comparison of the deaths in 1924 and in 1923. For the two weeks ending May 10 there were 24,877 deaths from this disease, as compared with 6,894 for the same period in 1923. In Egypt the plague situation has not been very prevalent this year, and the situation in the Orange Free State and neighboring districts is rapidly improving. An outbreak of plague is reported from the Gold Coast Colony, with 44 cases in March and 57 in April. Plague cases continue to occur in Peru and Ecuador, although their number is smaller, at least in Peru, than in 1923.

Typhus fever and other diseases.—A decline in the prevalence of typhus fever is indicated in almost all countries from which information is received. There was an increase during January and February, 1924, in the Ukraine, and an outbreak of relapsing fever occurred in Saloniki, Greece. The influenza wave has definitely passed. The incidence of poliomyelitis is everywhere very low. The prevalence of scarlet fever continues to exhibit its seasonal decline in practically all countries, with the exception of France, Ukraine, and Japan. In Australia, where winter is now approaching, its incidence exhibited a marked increase. According to the latest reports, an increase is shown in some of the few countries in which whooping cough is notifiable. This is true of Bulgaria, Hungary, Rumania, and the Ukraine, according to the latest information available.

It is too early yet to venture any judgment on the prevalence of enteric fever, under which term is included typhoid, as well as the paratyphoids. The Epidemiological Report notes that recent information received from Germany and Poland shows a slightly lower prevalence of enteric fever in the current year so far than in the preceding year. In Germany, Italy, and Japan the incidence of the disease during the early part of 1924 was considerably in excess of that for the corresponding period of 1923. In England and Wales enteric fever, by the middle of June, was not far from the maximum attained in 1923, although the 1923 maximum did not occur until about Sep-

tember. No marked change in the prevalence of dysentery is shown, except in Germany, where a slight increase occurred during the four weeks ending May 31, as compared with the preceding four-week period. The incidence of dysentery in Germany is somewhat higher than for the corresponding period of 1923.

A marked improvement in the smallpox situation in England, Wales, and Switzerland is shown in the notifications of the disease during the four weeks ending June 17. A lower prevalence of disease is indicated from the latest reports (February, 1924) from the Ukraine. The reports from Turkey, Iraq, Egypt, Nigeria, the Union of South Africa, Siam, and Ontario Province (Canada) do not indicate any unusual prevalence. The Dominican Republic, Cuba, Panama, Canal Zone, Ecuador, and the Federal District of Rio de Janeiro have remained practically free from smallpox so far this year. A slight increase in smallpox prevalence was shown in Basutoland in April as compared with March. Taking the foregoing information into consideration with the latest-reports for the United States, there is a marked improvement in the smallpox situation in all the countries and colonies of the world.

The Epidemiological Intelligence Service of the Health Section is making a special effort to obtain data on the prevalence of trachoma in 1924, and information from the various countries is summarized in the July report, as follows:

Austria, 109 cases up to May 17; Czechoslovakia, 1,024 cases up to April 30; Danzig, 14 cases up to June 14; Esthonia, 250 cases up to May 31; Germany, 617 cases up to June 7; Latvia, 2 cases up to April 30; Poland, 950 cases up to May 17; Switzerland, 4 cases up to June 14; Tunisia, 98 cases up to June 7; New Zealand, 12 cases up to May 19; Ukraine, 3,533 cases up to February 29.

Mortality in large cities.—The general mortality statistics from approximately 260 large cities indicate a not unfavorable situation. While the figures are not in all instances for comparable periods, because of the delay in obtaining them, they are fairly correct and show the trend for the past 12 months. In the English cities the June, 1924, mortality rate was about the same as the rate for the corresponding period in 1923. In Copenhagen the rate was 12.3 as against 10.8; and in Stockholm, 10.9 as against 12.6; while in Amsterdam it was 6.9 as against 9.7, all for the latest four-week period available. In the 46 large German cities and towns the rate was 10.0 as against 11.8 in 1923, much of the reduction being due to a more favorable mortality from tuberculosis and pneumonia and a lower infant mortality. In Warsaw, Danzig, Budapest, Alexandria, Cairo, Madras, and Perth, higher 1924 rates are indicated.

STATE AND INSULAR HEALTH AUTHORITIES, 1924.

DIRECTORY, WITH DATA AS TO APPROPRIATIONS AND PUBLICATIONS.

Directories of the State and insular health authorities of the United States for each year from 1912 to 1923 have been published in the Public Health Reports ¹ for the information of health officers and others interested in public-health activities. These directories have been compiled from data furnished by the respective State and insular health officers and include data as to appropriations and publications.

Where an officer has been reported to be a "whole-time" health officer, that fact is indicated by an asterisk (*). For this purpose a "whole-time" health officer is defined as "one who does not engage in the practice of medicine or any other business, but devotes all his time to official duties."

ALABAMA.

Board of censors of the State medical association, acting as a committee of public health:

W. W. Brandon, governor, ex officio chairman, Montgomery.

S. W. Welch, M. D., Montgomery.

W. D. Partlow, M. D., Tuscaloosa.

J. N. Baker, M. D., Montgomery.

W. S. Britt, Eufaula.

S. G. Gay, M. D., Selma.

E. S. Sledge, M. D., Mobile.

A. N. Steele M. D., Anniston.

H. S. Ward, M. D., Birmingham.

B. L. Wyman, M. D., Birmingham.

R. S. Hill, M. D., Montgomery.

Executive health officer:

*S. W. Welch, M. D., State health officer, Montgomery.

Registrar of vital statistics:

*W. T. Fales, Montgomery.

Director State laboratory:

*L. C. Havens, M. D., Montgomery.

State sanitary engineer:

*G. H. Hazlehurst, C. E., M. C. E., Montgomery.

Assistant sanitary engineers:

*H. G. Menke, B. C. E., Montgomery.

*C. C. Kiker, B. C. E., Montgomery.

*J. C. Carter, E. M., Montgomery.

*E. B. Johnson, C. P. H., Birmingham.

*N. H. Rector, Decatur.

Epidemiologists:

*K. F. Marcy, assistant surgeon, United States Public Health Service, Montgomery.

*T. H. D. Griffiths, assistant surgeon, United States Public Health Service, Montgomery.

County organization:

*D. L. Cannon, M. D., first director, Montgomery.

*W. K. Sharp, M. D., U. S. P. H. S., second director, Florence.

*W. G. Smillie, M. D., I. H. B., third director, Andalusia.

ALABAMA—Continued.

Public health nursing:

*Jessie, L. Marriner, R. N., director, Montgomery.

*Elizabeth McKenzie, R. N., assistant director, Montgomery.

*Francis Montgomery, assistant director, Montgomery.

Veneral disease control:

*W. C. Blasingame, director, Montgomery.

Communicable diseases:

Inspection:

*C. A. Abele, Ch. E., director, Montgomery.

*T. B. S. Matthews, assistant director, Montgomery.

*L. C. Frank, U. S. P. H. S., associate sanitary engineer, in charge of milk inspection, Montgomery.

Chief clerk:

*Bessie A. Tucker, Montgomery.

ALASKA.

Board of health:

Scott C. Bone, governor, Juneau.

Harry C. De Vighae, M. D., commissioner of health, Juneau.

Executive health officer:

Harry C. De Vighae, M. D., commissioner of health, Juneau.

Assistant commissioners of health:

Wm. Ramsey, M. D., Council.

J. A. Sutherland, M. D., Fairbanks.

W. H. Chase, M. D., Cordova.

Appropriation for 1923-24 \$12,000

ARIZONA.

Board of health:

Geo. W. P. Hunt, governor, president, Phoenix.

John W. Murphy, attorney general, vice president, Phoenix.

F. T. Fahlen, M. D., secretary, Phoenix.

¹ Reprints Nos. 83, 123, 190, 268, 344, 405, 488, 544, 605, 706, 775, and 871, from the Public Health Reports.

ARIZONA—Continued.**Executive health officer:**

F. T. Fahlen, M. D., State superintendent of public health, Phoenix.

Executive secretary:

***Texana Lea Williams,** Phoenix.

State registrar of vital statistics:

F. T. Fahlen, M. D., Phoenix.

Bureau of control of venereal diseases:

F. T. Fahlen, M. D., director, Phoenix.

Child hygiene division:

***Mrs. Chas. R. Howe,** director, Phoenix.

***Elizabeth Arnold,** assistant.

***Carolina Valenzuela, R. N.,** field nurse.

***J. Frances Ross, R. N.,** field nurse.

***Isabel Jensen, R. N.,** field nurse.

***Mary S. Kelleher, R. N.,** field nurse.

***Cathlyn Kessler, R. N.,** field nurse.

Bureau of vital statistics.

***Mrs. Ruby L. Jacquemin,** statistician, Phoenix.

Director State laboratory:

***Miss Jane H. Rider,** Tucson.

Appropriations for fiscal year ending June 30, 1925:**State board of health—**

Salaries..... \$9,500.00

Operating expense..... 6,755.00

Traveling expense..... 2,800.00

State laboratory—

Salaries..... 4,500.00

Operating expense..... 766.00

Traveling expense..... 334.00

Child hygiene division, Sheppard-**Towner work—**

Salaries..... 13,500.00

Operating expense..... 1,232.42

Traveling expense..... 4,775.00

Unexpended balance of 1923 funds 3,284.63

Total..... 47,447.05

ARKANSAS.**Board of health:**

O. L. Williamson, M. D., president, Marianna.

A. S. Gregg, M. D., Fayetteville.

R. O. Norris, M. D., Tuckerman.

E. H. Stevenson, M. D., Fort Smith.

H. L. Montgomery, M. D., Gravelly.

S. A. Southall, M. D., Lonoke.

F. O. Mahony, M. D., El Dorado.

Executive health officer:

***C. W. Garrison, M. D.,** State health officer, Little Rock.

Bureau of vital statistics:

***Mrs. Mary Ellis Brown,** statistician, Little Rock.

Hygienic laboratory:

***J. C. Simpson, M. D.,** director, Little Rock.

Bureau of sanitation and malaria control:

***M. Z. Bair,** chief sanitary engineer, Little Rock.

Bureau of venereal disease control:

***C. W. Garrison, M. D.,** director, Little Rock.

Bureau of child hygiene:

***Margaret Koenig, M. D.,** associate director, Little Rock.

Appropriations for biennial period ending June 30, 1925:

Executive department, salaries and miscellaneous..... \$27,800

ARKANSAS—Continued.**Appropriations for biennial period ending**

June 30, 1925—Continued.

Bureau of vital statistics, salaries and

miscellaneous..... \$28,800

Payment local registrars..... 29,000

Bureau of venereal disease control..... 25,000

Malaria control..... 10,000

Bureau of sanitation..... 11,400

Bureau of child hygiene..... 15,000

Hygienic laboratory..... 17,000

Total..... 164,000

CALIFORNIA.**Board of health:**

George E. Ebright, M. D., president, San Francisco.

Fred F. Gundrum, M. D., vice president, Sacramento.

Walter M. Dickie, M. D., secretary, Sacramento.

A. J. Scott, Jr., M. D., Los Angeles.

Edward F. Glaser, M. D., San Francisco.

Adelaide Brown, M. D., San Francisco.

Robert A. Peers, M. D., Colfax.

Executive health officer:

***Walter M. Dickie, M. D.,** secretary and executive officer, State board of health, Sacramento.

***Ernest B. Camper,** assistant to secretary, Sacramento.

Epidemiologist:

***Charles H. Halliday, M. D.,** Berkeley.

District health officers:

***Allen F. Gillihan, M. D.,** northern division.

***Galvin Telfer, M. D.,** southern division.

Sanitary inspector:

***Edward T. Ross,** Sacramento.

Bureau of vital statistics:

***L. E. Ross,** director, Sacramento.

Bureau of registration nurses:

***Anne C. Jamme, R. N.,** director, San Francisco.

Bureau of tuberculosis:

***Edith L. M. Tate-Thompson,** director, Sacramento.

Bureau of food and drugs:**Bureau of communicable diseases:**

***W. H. Kellogg, M. D.,** director, Berkeley.

Bureau of sanitary engineering:

***C. G. Gillespie, C. E.,** director, Berkeley.

Bureau of child hygiene:

***Ellen S. Stadtmuller, M. D.,** director, San Francisco.

Appropriations for biennial period ending

June 30, 1925:

For salaries of employees State board of health..... \$306,298

For support of State board of health.. 248,338

Total..... 554,636

Other sources of revenue:

Fees for registration of nurses, \$15 each.

Renewal of registration certificates, \$1 per year.

Licensing of cold-storage warehouses, rated according to capacity.

Fines for violation of pure food and drugs act.

Fees for certified copies of records.

Publications issued by health department:

Biennial report.

Weekly bulletin.

COLORADO.**Board of health:**

G. K. Olmsted, M. D., president, Denver.
 C. W. Thompson, M. D., vice president,
 Pueblo.
 Tracy R. Love, M. D., secretary, Denver.
 M. Ethel V. Fraser, M. D., Denver.
 G. W. Bumpus, D. O., Denver.
 Sherman Williams, M. D., Denver.
 S. R. McKelvey, M. D., Denver.
 J. M. Barney, M. D., Denver.
 A. W. Scott, Fort Collins.

Executive health officer:

Tracy R. Love, M. D., secretary State board of
 health, Denver.

Bacteriologist:

*Wm. C. Mitchell, M. D., Denver.

Medical inspector:

*J. W. Morgan, M. D., Denver.

State food and drug commissioner:

*S. H. Loeb, Denver.

Division of venereal diseases:

*S. R. McKelvey, M. D., Director, Denver.

Appropriations for fiscal year ending Nov.

30, 1924:

Salaries.....	\$23,800
Detention-home fund.....	\$24,000
Laboratory equipment.....	2,000
Printing and publications.....	1,250
Traveling expenses.....	4,800
Samples and supplies.....	600
Venereal diseases.....	20,000
Incidental expenses.....	\$2,000
Total.....	78,450

CONNECTICUT.**Public health council:**

Edward K. Root, M. D.
 S. B. Overlock, M. D.
 C.-E. A. Winslow, D. P. H.
 James W. Knox.
 Robert A. Cairns, C. E.
 James A. Newlands.

Executive health officer:

*Stanley H. Osborn, M. D., C. P. H., commis-
 sioner of health, Hartford.

Bureau of preventable diseases:

*Millard Knowlton, M. D., C. P. H., director.

Bureau of vital statistics:

*William C. Welling, director.

Bureau of public health nursing:

*Margaret K. Stack, R. N., director.

Bureau of child hygiene:

*A. Elizabeth Ingraham, M. D.

Bureau of public health instruction:

*Elizabeth Nickerson, C. P. H.

Bureau of laboratories:

*F. Lee Mickle, director.

Bureau of sanitary engineering:

J. Frederick Jackson, director.

Division of venereal diseases:

*Daniel E. Shea, M. D., director.

Division of mental hygiene:

H. A. Bancroft, M. D.

* Years 1923 and 1924.

CONNECTICUT—Continued.**Appropriations for fiscal year ending June**

30, 1924:

General administrative expenses.....	\$17,500.00
Salary, commissioner.....	5,000.00
Purchase and free distribution of antitoxin.....	20,000.00
Preventable diseases.....	17,500.00
Vital statistics.....	15,000.00
Sanitary engineering.....	20,000.00
Laboratory.....	20,000.00
Child hygiene.....	27,800.00
Public health nursing.....	10,000.00
Venereal-disease control work.....	10,000.00
Mental hygiene.....	5,600.00

Total..... 177,500.00

Federal appropriation, venereal-disease
control..... 1,306.05

Publications issued by health department:

Weekly bulletin.

Monthly bulletin.

Annual vital statistics report.

Biennial report of State department of health.

Miscellaneous pamphlets.

DELAWARE.**State health and welfare commission:**

Wm. P. Orr, M. D., president, Lewes.

Mrs. Charles Warner, vice president, Wilming-
ton.

Robert E. Ellegood, M. D., State Road.

Margaret I. Handy, M. D., Wilmington.

Mrs. Julia S. Ashbrook, Wilmington.

Mrs. Harland I. Huston, secretary, Seaford.

W. P. Pierce, M. D., Milford.

Executive health officer:

*Arthur T. Davis, M. D., Dover.

Pathologist and bacteriologist:

*Robert Middlebrook, M. D.

Supervisor of nurses:

*Marie T. Lockwood, R. N.

Sanitary Engineer:

*Richard C. Beckett, Dover.

Appropriations for fiscal year ending June

30, 1925:

Rural sanitation.....	\$3,000
Vital statistics.....	2,000
Pathological and bacteriological labora- tory.....	9,000
Diphtheria antitoxin and immunizing agents.....	1,500
Venereal-disease control work.....	2,000
Child welfare.....	25,000
Tuberculosis.....	45,000
Total.....	87,500

DISTRICT OF COLUMBIA.**Executive health officer:**

*William C. Fowler, M. D., health officer, Wash-
ington.

Assistant health officer:

*Rowland H. Ford, M. D., Washington.

Chief clerk and deputy health officer:

*Arthur G. Cole, Washington.

DISTRICT OF COLUMBIA—Continued.

Chief bureau of preventable diseases and director
bacteriological laboratory:

*John T. Sprague, M. D., Washington.

Bacteriologist:

*John A. Noble, Washington.

Serologist:

*W. F. Landon, Washington.

Chemist:

*Thomas Malcolm Price, Ph. D., Washington.

Chief sanitary inspector:

*C. R. Holman, Washington.

Chief food inspector:

*Reid R. Ashworth, D. V. S., Washington.

Chief medical and sanitary inspector of schools:

*Joseph A. Murphy, M. D., Washington.

Appropriations for the fiscal year ending

June 30, 1925:

Salaries.....	\$130,640
Prevention of communicable diseases.....	40,000
Disinfecting service.....	6,000
Isolation wards at hospitals.....	16,500
Milk and food inspection and regulation.....	7,200
Dispensary service, including treatment of tuberculosis and venereal diseases.....	14,500
Maintaining a child hygienic service.....	18,000
Miscellaneous.....	11,250
Total.....	244,090

Publications issued by health department:

Weekly report by health department.

Annual report of health officer.

Monthly statement of average grade of milk sold.

FLORIDA.

Board of health:

Calvin T. Young, M. D., president, Plant City.

Charles H. Mann, Jacksonville.

F. Clifton Moore, M. D., Tallahassee.

Executive health officer:

*Raymond C. Turck, M. D., State health officer, Jacksonville.

Bureau of vital statistics:

*Stuart G. Thompson, D. P. H., director, Jacksonville.

Bureau of sanitary engineering:

*George W. Simons, Jr., Jacksonville.

Bureau of diagnostic laboratories:

*B. L. Arms, M. D., director, Jacksonville.

Bureau of communicable disease and health units:

*F. A. Brink, M. D., Jacksonville.

Bureau of child welfare:

*Mrs. Laurie Jean Reid, R. N., director, Jacksonville.

Appropriation for health department:

One-half mill tax levied upon the assessable property of the State; increased from one-quarter mill by 1923 legislature. Money becomes available Jan. 1, 1924. Fiscal year ends Dec, 31.

Publications issued by health department:

Pamphlets covering all phases of public health.

Public health information disseminated through the weekly and daily papers of the State.

Florida health notes.

GEORGIA.

Board of health:

Robert F. Maddox, president, Atlanta.

James H. McDuffie, M. D., vice president, Columbus.

T. F. Abercrombie, M. D., secretary, Atlanta.

Charles H. Richardson, M. D., Macon.

A. D. Little, M. D., Thomasville.

John W. Daniel, M. D., Savannah.

W. I. Hailey, M. D., Hartwell.

Fred D. Patterson, M. D., Cuthbert.

John A. Rhodes, M. D., Crawfordville.

A. C. Shamblin, M. D., Rome.

J. C. Verner, M. D., Commerce.

J. L. Walker, M. D., Waycross.

M. S. Brown, M. D., Fort Valley.

N. H. Ballard, State superintendent of schools, ex-officio, Atlanta.

Peter F. Bahnsen, State veterinarian, ex officio, Atlanta.

Executive health officer:

*T. F. Abercrombie, M. D., commissioner, Atlanta.

*Joe P. Bowdoin, M. D., deputy commissioner, Atlanta.

Division of venereal disease control:

*Joe P. Bowdoin, M. D., director, Atlanta.

Division of county health work:

C. E. Waller, M. D., surgeon, U. S. P. H. S., director, Atlanta.

Division of malaria control:

*M. A. Fort, M. D., director, Atlanta.

Division of laboratories:

*T. F. Sellers, director, Atlanta.

Division of sanitary engineering:

*H. C. Woodfall, director, Atlanta.

Division of serology:

*E. L. Webb, director, Atlanta.

State tuberculosis sanatorium:

*Edson W. Glidden 2d, M. D., superintendent, Alto.

Bureau of vital statistics:

*W. A. Davis, M. D., director, Atlanta.

Division of child hygiene:

*Joe P. Bowdoin, M. D., director, Atlanta.

*Alice Moses, M. D., assistant director, Atlanta.

Georgia training school for mental defectives:

*George H. Preston, M. D., Gracewood.

Division of accounting and purchasing:

*C. L. Tinsley, director, Atlanta.

Appropriations for the fiscal year ending

Dec. 31, 1924:

General appropriation.....	\$81,431.00
Venereal disease control.....	10,000.00
State tuberculosis sanatorium.....	50,000.00
Georgia training school for mental defectives.....	25,000.00

Total appropriation by legislature..... 166,431.00

Venereal disease control (Federal Government funds, fiscal year ending June 30, 1924)..... 2,739.40

Maternity and infancy (Federal Government funds, fiscal year ending June 30, 1924)..... 17,450.00

GEORGIA—Continued.

Appropriations for the fiscal year ending
Dec. 31, 1924—Continued.

Central administration, county health work (International Health Board funds).....	\$3,900.00
Central administration, malaria control (International Health Board funds).....	5,650.00
Field studies in malaria control, Leesburg, Ga. (International Health Board funds).....	9,368.33
Grand total.....	205,538.73

HAWAII.

Board of health:

F. E. Trotter, M. D., president and executive officer, Honolulu.
J. A. Matthewman, attorney general, Honolulu.
P. Withington, M. D., Honolulu.
D. S. Bowman, Honolulu.
E. A. Mott-Smith, Honolulu.
J. Ordenstein, Honolulu.
George Denison, Honolulu.

Executive health officer:

*F. E. Trotter, M. D., president of the board of health, Honolulu.

Secretary:

*M. R. Weir, Honolulu.

Bacteriologist:

A. N. Sinclair, M. D., Honolulu.

Tuberculosis bureau:

A. L. Davis, M. D., director, Honolulu.

Health officer:

James T. Wayson, M. D., Honolulu.

Sanitary engineer:

*S. W. Tay, Honolulu.

Food commissioner and analyst:

*M. B. Bairos, Honolulu.

Oahu Insane Asylum:

*W. A. Schwallie, M. D., superintendent, Honolulu.

Leper settlement:

*J. D. McVeigh, superintendent, Kalaupapa, Molokai.

*W. J. Goodhue, M. D., resident physician, Kalaupapa, Molokai.

Chief sanitary inspector, Hawaii:

*C. Charlock, Hilo.

Chief sanitary inspector, Maui:

*G. Weight Walluku.

Chief sanitary inspector, Kauai:

*F. B. Cook, Waimea.

Appropriations, 1923-1925:

Board of health—

Salary, president.....	\$12,000
Salary, public health officer.....	8,400
Salary, secretary.....	6,600
Salaries, office employees.....	22,200
Expenses, office.....	10,200
Expenses, board of medical examiners.....	200
Revision public health laws and sanitary code.....	1,200
Bureau of vital statistics—	
Salary, registrar general.....	5,400
Salaries, deputies and clerks.....	9,000
Salary, registrar, Honolulu.....	3,600

HAWAII—Continued.

Appropriations, 1923-1925—Continued.

Bureau of vital statistics—Continued.

Expenses, office registrar general	\$7,000
Expenses, office registrar, Honolulu.....	600
Printing vital statistics, 1921-1923	1,600
Purchase of equipment.....	700
Bureau of sanitary engineering—	
Salary, sanitary engineer.....	9,600
Salary, draftsman.....	2,600
Expenses.....	2,400

Sanitation—

Salary, chief sanitary inspector, Oahu.....	6,000
Salaries, clerks, sanitary and mosquito inspectors, Oahu.....	66,720
Salary, chief sanitary inspector, Hawaii.....	9,000
Salaries, sanitary inspectors and clerks, Hawaii.....	34,800
Salary, chief sanitary inspector, Maui.....	5,400
Salary, chief sanitary inspector, Kauai.....	5,400
Sanitary expenses, Territory.....	21,600
Salaries and expenses, plague campaign.....	60,000
Expenses, mosquito campaign.....	5,400

Pure food and drug bureau—

Salaries.....	18,300
Expenses and assistants.....	4,200

Bacteriological bureau—

Salary, bacteriologist and pathologist.....	6,000
Expenses and assistants.....	3,000

Government physicians—

Salaries.....	58,800
Hawaii.....	\$27,240
Maui.....	13,800
Kauai.....	8,160
Oahu.....	9,600

(Provided, however, that no salary shall be allowed or paid unless physicians employed or appointed in the several districts shall treat the indigent sick free of charge in such district or districts, as the case may be.)

Medical supplies for schools..... 5,000

Quarantine and medical service—

Salaries.....	22,200
Expenses.....	31,200

Quarantine stations—

Repairs, maintenance, equipment, and salaries, Honolulu.	17,500
Repairs, maintenance, equipment, and salaries, Hilo.	

Care of lepers and their children—

KALAUPAPA.

Salary, superintendent.....	\$11,400
Salary, physician.....	10,800
Salary, dentist (not prorated).....	8,100
Eye treatment (not prorated).....	2,500
Salaries, assistants and attendants, Bishop Home and Baldwin Home.....	9,000

HAWAII—Continued.**Appropriations, 1923-1925—Continued.****Care of lepers and their children—Continued.****KALAUPAPA—continued.**

Salaries, sheriff and police.....	\$1, 800
Allowance, patients.....	37, 050
Allowance, needy blind patients, extra \$5 per month.....	4, 800
Transfer buildings, Kalawao to Kalaupapa.....	12, 000
Construction, roads.....	3, 600

KALIHI HOSPITAL.

Salary, matron.....	4, 200
Salary, officer for lepers.....	4, 200
New buildings and equipment...	19, 800
Automobile truck.....	1, 000

KALAUPAPA AND KALIHI.

Wages, nurses, laborers, attend- ants, and mechanic.....	112, 850
Expenses, segregation hospitals and maintenance.....	298, 000
Medical supplies and equipment..	26, 344
Amusements.....	3, 000
Incidentals.....	2, 000

KAPIOLANI GIRLS' HOME.

Salaries.....	12, 840
Maintenance.....	27, 503

KALIHI BOYS' HOME.

Salaries.....	15, 600
Maintenance.....	21, 000
Repairs, segregation hospital, Hilo.....	2, 000
Prevention and cure of tuberculosis—	
Salaries.....	81, 360
Expenses, including purchase of automobiles.....	48, 648
Purchase and installation of X- ray machine.....	3, 500
Cure and treatment of tubercular patients in sanitariums.....	288, 768
Oahu, Leahi Home \$126, 000	
Maui, Kula Sani- tarium.....	60, 000
Kauai, Samuel Ma- helona Memorial Hospital.....	48, 000
Hawaii, Puumaille Home.....	54, 768
Improvements, Puumaille Home.....	7, 200
Insane asylum—	
Salary, superintendent.....	8, 400
Pay roll.....	166, 116
Maintenance.....	99, 300
New buildings for female patients	20, 000
Amusements.....	600
Upkeep and repairs to buildings..	5, 500
Compensation to patients for labor.....	600
Dental supplies.....	600
Sanitarium—	
Salaries, employees.....	19, 680
Maintenance.....	15, 800

HAWAII—Continued.**Appropriations, 1923-1925—Continued.****KALIHI BOYS' HOME—continued.****Venereal-disease clinic—**

Salaries.....	\$10, 800
Expenses.....	4, 200
Insuring and protecting radium..	1, 000
Purchase radium.....	2, 500

Total..... 1, 923, 776

Publications issued by health department:

Annual report of president.

Registrar-general's report.

IDAHO.**Department of public welfare:**

*David Burrell, commissioner.

*F. W. Almond, M. D., medical adviser.

*E. H. Bramhall, bacteriologist.

*William Vernon Leonard, chemist.

*A. H. Wilson, dairy, food, drug, hotel, and
sanitary inspector.

*C. K. Macey, dairy, food, drug, hotel, and
sanitary inspector.

Executive health officer:

*David Burrell, commissioner of public wel-
fare, Boise.

**Appropriations for biennial period ending Jan. 3,
1925:****Administrative—**

Personal services (salaries and wages).....	\$39, 600
Services other than personal.....	9, 650
Supplies.....	2, 750
Fixed charges.....	320
Equipment.....	1, 500

Venereal disease control—

Personal services (salaries and wages).....	200
Services other than personal.....	2, 745
Supplies.....	55
Capital outlay.....	2, 000
Quarantining venereal disease pa- tients in venereal disease control	1, 200

Total..... 60, 020

ILLINOIS.**Director of public health:**

*Isaac D. Rawlings, M. D., Springfield.

Assistant director of public health:

*Thomas H. Leonard, M. D.

Division of sanitation and engineering:

*Harry F. Ferguson, C. E., chief sanitary
engineer.

Division of communicable diseases:

*J. J. McShane, M. D., D. P. H., chief.

Division of child hygiene and public-health nursing:

*R. C. Cook, M. D., acting chief.

Division of tuberculosis:

*Thomas H. Leonard, M. D., acting chief.

Division of laboratories:

*Thomas G. Hull, Ph. D., chief.

Division of vital statistics:

*Sheldon L. Howard, registrar.

Division of public-health instruction:

*Baxter R. Richardson, chief.

ILLINOIS—Continued.**Division of social hygiene:**

*C. C. Copelan, M. D., chief.

Division of hotel and lodging-house inspection:

*Arch Lewis, superintendent.

Appropriations for biennial period ending

June 30, 1925:

Salaries.....	\$522,720
Salaries State officers.....	26,500
Office expenses.....	20,500
Traveling expenses.....	103,600
Operating, supplies and expenses.....	198,420
Equipment and repairs.....	18,400
Contingent.....	27,700
Printing.....	40,000
Postage.....	13,300
Operating emergency.....	10,447
Rabies.....	4,000
Total.....	985,587

Publications issued by health department:

Illinois Health News (monthly).

Weekly press bulletin.

INDIANA.**Board of health:**

Hugh A. Cowing, M. D., president, Muncie.

Adah McMahan, M. D., vice president, La Fayette.

T. Victor Keene, M. D., Indianapolis.

John H. Green, M. D., North Vernon.

William F. King, M. D., secretary, Indianapolis.

Executive health officer:

*William F. King, M. D., State health commissioner, Indianapolis.

Assistant State health commissioner:

*J. G. Royse, M. D., Indianapolis.

Division of statistics:

*H. M. Wright, director, Indianapolis.

Laboratory of hygiene:

*H. W. McKane, M. D., acting director.

Division of food and drugs:

*Ivy L. Miller, State food and drug commissioner, Indianapolis.

Milk laboratory:

*Frank C. Wilson, director, Indianapolis.

Water and sewage laboratory:

*L. A. Geupel, sanitary engineer, Indianapolis.

Division of child hygiene:

*Ada E. Schweitzer, M. D., director, Indianapolis.

Division of communicable diseases:

*H. W. McKane, M. D., director, Indianapolis.

*Arthur L. Oilar, M. D., epidemiologist, Indianapolis.

Division of venereal diseases:

*J. G. Royse, M. D., director, Indianapolis.

Division of school hygiene:

*H. R. Condrey, director, Indianapolis.

Division of housing:

*A. E. Wert, director, Indianapolis.

Department of public health nursing:

*Ina M. Gaskill, R. N., director, Indianapolis.

Appropriations for fiscal year ending Sept. 30, 1924, \$170,000.

IOWA.**Board of health:**

C. S. Grant, M. D., president, Iowa City.

Frank T. Launder, M. D., Garwin.

N. E. Kendall, governor, Des Moines.

IOWA—Continued.**Board of health—Continued.**

W. C. Ramsay, secretary of state, Des Moines.

G. C. Haynes, auditor of state, Des Moines.

W. J. Burbank, treasurer of state, Des Moines.

Hans. V. Pedersen, sanitary engineer, Des Moines.

G. F. Severs, M. D., Centerville.

Henry C. Eschbach, M. D., Albion.

C. S. Grant, M. D., Iowa City.

Executive health officer:

*Rodney P. Fagen, M. D., State health commissioner, Des Moines.

Assistant secretary:

*H. W. Grefe, Des Moines.

Chief clerk:

*L. V. Clemens, Des Moines.

Laboratories:

*Don. M. Griswold, M. D., director, Iowa City.

Sanitary engineer:

*Hans V. Pedersen, Des Moines.

Bureau of venereal diseases:

*W. S. Conkling, M. D., director.

Lecturer in charge of women's work:

*Jeannette F. Throckmorton, M. D.

State housing commissioner:

*Edwin H. Sands.

Appropriations for fiscal year ending June 30, 1924.

State board of health work.....	\$10,000
Housing department.....	5,000
Bacteriological laboratory.....	15,000
Antitoxin department.....	2,000
Vital statistics.....	10,000
Salaries of employees.....	19,900
Social hygiene.....	25,000
Total.....	86,900

(The above includes special appropriation for clerical assistance.)

Publications issued by health department:

Biennial report.

Quarterly bulletin.

KANSAS.**Board of health:**

W. G. Patton, M. D., president, Fort Scott.

C. A. Laffoon, M. D., vice president, Easton.

Henry D. Smith, M. D., Washington.

C. A. Fisher, M. D., Paola.

D. E. Smith, M. D., Kansas City.

R. G. Klein, M. D., Dodge City.

J. J. Entz, M. D., Wichita.

J. T. Axtell, M. D., Newton.

J. E. Hawley, M. D., Burr Oak.

Henry Allen, attorney, Topeka.

Milton O. Nyberg, M. D., secretary, Topeka.

Executive health officer:

Milton O. Nyberg, M. D., secretary State board of health, Topeka.

Division of vital statistics:

Burt E. Brown, State registrar, Topeka.

Division of communicable diseases and sanitation:

C. H. Kinnaman, M. D., epidemiologist, Topeka.

Division of foods and drugs:

Thomas I. Dalton, assistant chief food and drug inspector, Topeka.

Division of child hygiene:

M. O. Nyberg, M. D., acting chief, Topeka.

KANSAS—Continued.**Division of water and sewage:**

Albert H. Jewell, chief, Lawrence.

Division of public health education:

Milton O. Nyberg, M. D., director, Topeka.

Division of venereal diseases:

Milton O. Nyberg, M. D., director, Topeka.

Water and sewage laboratories at Kansas University:

Prof. Albert Jewell, director, Lawrence.

Food laboratory at Kansas University:

Prof. E. H. S. Bailey, director of food analyses, Lawrence.

Drug laboratory at Kansas University:

Prof. L. E. Sayre, director of drug analyses, Lawrence.

Food laboratory at Kansas Agricultural College:

Prof. H. H. King, director of food analyses, Manhattan.

Public health laboratory, Topeka:

Milton O. Nyberg, M. D., acting director, Topeka.

Appropriations for fiscal year ending June 30, 1924:

Salaries.....	\$20,700
Miscellaneous.....	4,500
Water and sewage division.....	3,000
Free distribution of antitoxins, etc.....	2,500
Suppression of communicable diseases.....	10,000
Public health laboratory.....	7,000
Division of child hygiene.....	7,500
Division of food and drugs.....	6,000
Division of venereal diseases.....	3,000
Total.....	64,200

Other sources of revenue:

Marriage fees, approximately \$10,000.

Water and ice analysis fees, approximately \$14,000.

Food and drug laboratories at Kansas University maintained by university maintenance fund, and food laboratory at Kansas Agricultural College maintained by agricultural college maintenance fund.

Publications issued by health department:

Quarterly bulletin.

Biennial report.

KENTUCKY.**Board of health:**

R. Julian Estill, M. D., Lexington.

V. A. Stilley, M. D., Benton.

George T. Fuller, M. D., Mayfield.

H. H. Carter, D. O., Shelbyville.

Joseph E. Wells, M. D., Cynthiana.

George S. Coon, M. D., Louisville.

J. W. Kincaid, M. D., Catlettsburg.

O. C. Dilly, M. D., Louisville.

A. T. McCormack, M. D., secretary, Louisville.

Executive health officer:

*A. T. McCormack, M. D., State health officer, Louisville.

Bureau of vital statistics:

*J. F. Blackerby, director, Louisville.

Bureau of bacteriology:

*Lillian H. South, M. D., director, Louisville.

Bureau of sanitary engineering:

*F. C. Dugan, State sanitary engineer, Louisville.

KENTUCKY—Continued.**Bureau of food, drugs, and hotels:**

*Sarah H. Vance, director, Louisville.

Bureau of venereal diseases:

*Jethra Hancock, M. D., Louisville.

Bureau of tuberculosis:

*J. S. Lock, M. D., director, Louisville.

Bureau of public health nursing:

*Marian Williamson, R. N., director, Louisville.

Bureau of maternity and child health:

*Annie S. Veech, M. D., Louisville.

Bureau of prevention of trachoma and blindness:

*C. B. Kobert, M. D., director, Louisville.

Bureau of public health education:

*Adelbert Thomas, educational secretary.

Bureau of county health work:

*P. E. Blackerby, M. D., director and assistant State health officer, Louisville.

Bureau of mental hygiene:

Frank O'Brien, M. D., director, Louisville.

State tuberculosis sanitarium:

*S. W. Bates, superintendent, Louisville.

Total income for fiscal year ending June 30, 1923, \$217,352.52.

Publications issued by health department:

Monthly bulletin.

LOUISIANA.**Board of health:**

Oscar Dowling, M. D., Shreveport.

T. T. Tarlton, M. D., Grand Coteau.

Miss Fannie B. Walker, secretary pro tem.

E. H. Daste, New Orleans.

C. P. Brown, M. D., New Orleans.

J. T. Abshire, M. D., Kaplan.

Fred Ratzburg, D. D. S., Shreveport.

J. E. Brown, M. D., Lake Providence.

Mrs. L. C. McVoy, Baton Rouge.

W. F. Couvillion, Marksville.

Executive health officer:

*Oscar Dowling, M. D., president State board of health, New Orleans.

Bacteriologist:

W. H. Seemann, M. D., New Orleans.

Registrar:

J. Geo. Dempsey, M. D., New Orleans.

Sanitary engineers:

*John H. O'Neill, New Orleans.

H. S. Henning, assistant.

Child hygiene:

*Agnes Morris, director, New Orleans.

Maud Loeber, M. D., medical director, New Orleans.

Miss Anna Traber, public health nurse.

Analyst:

*J. Roy Keeny, Phar. D., New Orleans.

Bureau of venereal diseases:

*Leonard C. Scott, acting assistant surgeon, U. S. P. H. S., New Orleans.

Bureau of public health administration:

*K. E. Miller, surgeon, U. S. P. H. S., New Orleans.

Medical entomologist:

*Geo. E. Beyer.

LOUISIANA—Continued.**Appropriations for fiscal year ending June 30, 1924:**

Isolation hospital at Alexandria.....	\$12, 500
Venereal disease control work.....	12, 500
General.....	75, 000

Total..... 100, 000

Other source of revenue:

Fees from inspection of oil.

Publications issued by health department:

Monthly bulletin.

Quarterly bulletin.

Annual almanac.

Biennial report.

Miscellaneous leaflets.

MAINE.**Public health council:**

C. F. Kendall, M. D., chairman, Augusta.

F. N. Whittier, M. D., Brunswick.

J. Q. Gulnac, Bangor.

Hiram Ricker, South Poland.

W. N. Miner, M. D., Calais.

H. A. Kelley, D. D. S., Portland.

Executive health officer:

*C. F. Kendall, M. D., State commissioner of health, Augusta.

Division of administration:

*C. F. Kendall, M. D., Augusta.

Division of communicable diseases:

*A. G. Young, M. D., director, Augusta.

Division of laboratories:

*John Hewat, M. D., director, Augusta.

Division of sanitary engineering:

*Elmer W. Campbell, D. P. H., Augusta.

Division of vital statistics:

*C. F. Kendall, M. D., State registrar, Augusta:

Division of social hygiene:

*George H. Coombs, M. D., director, Augusta.

Division of public health nursing and child hygiene:

*Edith L. Soule, R. N., Augusta.

Division of dental hygiene:

*Dorothy Bryant, director.

District health officers:

*J. L. Pepper, M. D., South Portland.

*E. P. Goodrich, M. D., Lewiston.

*H. L. Lombard, M. D., Presque Isle.

*H. D. Worth, M. D., Bangor.

*G. H. Hutchins, M. D., Waterville.

*L. W. Hadley, M. D., Machias.

Appropriations for fiscal year ending June 30, 1924:

Salaries and clerk hire.....	\$33, 000
Office expense and epidemic fund.....	20, 000
District and local health officers.....	38, 000
Venereal disease control work.....	14, 000
Maternity and child-welfare work.....	10, 000
Branch State laboratory, Caribou.....	4, 000

Total..... 119, 000

Other sources of revenue:

Census Bureau, Washington, D. C., about \$800.

Publications issued by the department of health:

Annual report on vital statistics.

MARYLAND.**Board of Health:**

John S. Fulton, M. D., chairman, Baltimore.

William H. Welch, M. D., Baltimore.

Thomas H. Robinson, attorney general, Baltimore.

William W. Ford, M. D., Baltimore.

C. Hampson Jones, M. D., Baltimore.

Tolley A. Biays, Baltimore.

Benjamin C. Perry, M. D., Bethesda.

E. F. Kelly, Phar. D., Baltimore.

Executive health officer:

*John S. Fulton, M. D., director of health, Baltimore.

Division of legal administration:

*J. Davis Donovan, chief, Baltimore.

Division of public health nursing:

*Lydia R. Martin, R.N., chief, Baltimore.

Division of public health education:

*Gertrude B. Knipp, chief, Baltimore.

Bureau of communicable diseases:

*Robert H. Riley, M. D., chief, Baltimore.

Bureau of vital statistics:

Frederic V. Beitler, M. D., Baltimore.

Food and drug commissioner:

*A. L. Sullivan, chief, Baltimore.

Bureau of bacteriology:

*R. C. Salter, chief, Baltimore.

Bureau of sanitary engineering:

*Abel Wolman, B. S. E., chief, Baltimore.

Bureau of chemistry:

*Wyatt W. Randall, Ph. D., chief, Baltimore.

Bureau of personnel and accounts:

*Walter N. Kirkman, chief, Baltimore.

Bureau of child hygiene:

*J. H. Mason Knox, jr., M. D., chief, Baltimore.

Appropriations for fiscal year ending Sept. 30, 1925:

Salaries.....	\$221, 600
Expenses.....	103, 615
Total.....	325, 215

Publications issued by health department:

Annual report.

MASSACHUSETTS.**Public health council:**

Eugene R. Kelley, M. D., chairman, Boston.

Roger I. Lee, M. D., Boston.

Francis H. Lally, M. D., Milford.

Richard C. Strong, M. D., Boston.

Warren C. Jewett, Worcester.

Sylvester E. Ryan, M. D., Springfield.

James L. Tighe, Holyoke.

Executive health officer:

*Eugene R. Kelley, M. D., State commissioner of public health, Boston.

Secretary:

*Francis L. McClosky.

Division of administration:

(Under direction of secretary.)

Division of communicable diseases:

*George H. Bigelow, M. D., director, Boston

MASSACHUSETTS—Continued.**Division of sanitary engineering:**

*X. H. Goodnough, director and chief engineer, Boston.

Division of water and sewage laboratories:

*H. W. Clark, director and chemist, Boston.

Division of biologic laboratories:

*Benjamin White, Ph.D., director and pathologist, Boston.

Division of food and drugs:

*Herman C. Lythgoe, director and analyst, Boston.

Division of hygiene:

*Merrill E. Champion, M. D., director, Boston.

Division of tuberculosis sanatoria:

*Sumner H. Remick, M. D., director, Boston.

Appropriations for department of public health, 1924:**Division of administration—**

Salary of commissioner	\$7,500
Personal services	13,500
Services other than personal	7,900

Division of hygiene—

Personal services of director and assistants	24,400
Services other than personal	16,250
Personal services in connection with maternal and infant hygiene	29,625
Expenses in connection with maternal and infant hygiene	15,000

Division of communicable diseases—

Personal services of director district health officers, etc.	54,200
Services other than personal	16,100

(The appropriations made in the following items are in addition to any Federal funds now in the treasury or hereafter received which may be used for these purposes:)

Subdivision of venereal diseases—

For personal services	14,300
Services other than personal	21,600

Manufacture and distribution of arsphenamine—

For personal services	10,345
Services other than personal	9,298

Wassermann laboratory—

For personal services	11,800
For expenses of laboratory	6,000

Antitoxin and vaccine lymph—

For personal services	41,000
Other services	34,000

Inspection of foods and drugs—

For personal services	43,600
Other services	13,700

Water supply and disposal of sewage, engineering division—

For personal services	44,385
For other services	10,450

Water supply and disposal of sewage, division of water and sewage laboratories—

For personal services	31,000
For other services	7,700

State examiners of plumbers—

For personal services	5,000
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MASSACHUSETTS—Continued.**Appropriations for department of public health 1924—Continued.****Penikese Island leper settlement—**

For services of caretaker	1,600
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Division of tuberculosis—

For personal services	33,100
Services other than personal	10,500
Payment of subsidies	170,000

For maintenance of and for certain improvements at the Lakeville, North Reading, Rutland, and Westfield State sanatoria

855,135

Total

1,558,988

Publications issued by department of public health:

Monthly bulletin.

Annual report.

Miscellaneous pamphlets dealing with health matters.

MICHIGAN.**Advisory council of health:**

Guy L. Kiefer, M. D., president, Detroit.

C. C. Slemmons, M. D., Grand Rapids.

Frank M. Gowdy, M. D., St. Joseph.

Leland W. Carr, Lansing.

Robert B. Harkness, M. D., Houghton.

Executive health officer:

*Richard M. Olin, M. D., State health commissioner, Lansing.

Deputy health commissioner:

*George H. Ramsey, M. D., C. P. H. Lansing.

Bureau of engineering:

*E. D. Rich, C. E., director.

*William Hirn, C. E., assistant engineer.

*Ernest F. Badger, chemical engineer.

*John M. Hepler, C. E., S. E., assistant engineer.

*Willard F. Sheperd, B. S. E., assistant engineer.

Raymond J. Faust.

*Chas. L. Orr, water inspector.

Bureau of laboratories:

*C. C. Young, Ph. D., D. P. H., director.

*Minna Crooks, R. N., bacteriologist.

*R. L. Kahn, immunologist.

*Pearl Kendrick, assistant immunologist.

*Paul Yull, assistant bacteriologist.

*Margaret Taylor, assistant bacteriologist.

*E. F. Eldridge, chemist.

*Max Marshall, research assistant.

*A. B. Haw, clinical pathologist.

*Chas. L. Bliss, toxicologist.

Bureau of nursing and child hygiene:

*Blanche Haines, M. D., director.

Bureau of records and statistics:

*W. J. V. Deacon, M. D., director.

Bureau of institutional health administration:

*R. N. Slate, M. D.

Bureau of education:

*Marjorie Delavan, director.

Bureau of embalming:

*F. J. Pienta, director.

Bureau of epidemiology:

*George H. Ramsey, M. D., C. P. H., director.

MICHIGAN—Continued.**Appropriations for fiscal year ending June 30, 1924:**

Personal service	\$175, 000
Supplies	34, 000
Contractual service	32, 500
Fixed charges	26, 000
Outlay for equipment	12, 800

Total

Institutional health—

Personal service	25, 400
Supplies	500
Traveling expense	3, 000
Outlay for equipment	1, 750

Total

Antitoxin operation

Child hygiene and public health nursing

Grand total

Publications issued by health department:

Monthly bulletin.
Annual report.
Communicable disease pamphlets.
Sex hygiene pamphlets.
Child hygiene pamphlets.
Engineering bulletins.

MINNESOTA.**Board of health:**

C. L. Scofield, M. D., president, Benson.
S. Marx White, M. D., vice president, Minneapolis.
N. M. Watson, M. D., Red Lake Falls.
N. G. Mortensen, M. D., St. Paul.
L. P. Wolff, C. E., St. Paul.
O. F. Mellby, M. D., Thief River Falls.
R. C. Hunt, M. D., Fairmont.
H. R. Weirick, M. D., Hibbing.
J. A. Thabes, M. D., Brainerd.

Executive health officer, Capitol, St. Paul:

*A. J. Chesley, M. D., secretary and executive officer.

*Hortense Hilbert, R. N., educational agent.

Division of records, Capitol, St. Paul:

*O. C. Pierson, director.

Division of preventable diseases, university campus, Minneapolis:

*O. McDaniel, M. D., director.

*E. M. Wade, chief of laboratories.

Division of sanitation, university campus, Minneapolis:

*H. A. Whittaker, director.

Division of vital statistics, Capitol, St. Paul:

*Mrs. Gerda C. Pierson, director.

Division of venereal diseases, university campus, Minneapolis:

H. G. Irvine, M. D., director.

Division of child hygiene, university campus, Minneapolis:

*Ruth E. Boynton, M. D., director.

*Ruth Houlton, R. N., superintendent of public health nursing.

MINNESOTA—Continued.**Appropriations for fiscal year ending June 30, 1924:**

General fund	\$20, 000
Vital statistics	12, 000
Communicable diseases	25, 000
Laboratories	42, 500
Sanitary engineering	7, 000
Free antitoxin	10, 000
Prevention of blindness	1, 000
Venereal diseases	25, 000
Protection for maternity and infancy ..	15, 000

Total

Other sources of revenue:

Aid from county and city for branch laboratory at Duluth	1, 320
U. S. P. H. S. venereal disease aid (1924 only)	564
Sheppard-Towner aid, \$15,000; \$5,000 (gift)	20, 000
Aid from American Child Health Association for child health work on Minnesota Indian reservations	850

Publications issued by health department:

Educational pamphlets.
Biennial report.

MISSISSIPPI.**Board of health:**

W. W. Crawford, M. D., president, Hattiesburg.
J. P. Wall, M. D. Jackson.
J. J. Haralson, M. D., Forest.
S. E. Eason, M. D., New Albany.
L. B. Austin, M. D., Rosedale.
J. W. Lipscomb, M. D., Columbus.
S. J. Hooper, M. D., Winona.
J. M. Dampier, M. D., Crystal Springs.
W. H. Watson, M. D., Brandon.
E. M. Gavin, M. D., Overt.
Ira B. Seale, M. D., Holly Springs.
A. J. Brown, M. D., Duncan.
F. J. Underwood, M. D., secretary, Jackson.

Executive health officer:

*F. J. Underwood, M. D., executive officer, State board of health, Jackson.

Bureau of vital statistics:

*R. N. Whitfield, M. D., director, Jackson.

Bureau of child hygiene and public health nursing:

*F. J. Underwood, M. D., acting director, Jackson.

*Mary D. Osborne, R. N., supervisor, public health nursing, Jackson.

Hygienic laboratory:

*T. W. Kemmerer, M. D., director, Jackson.

Bureau of sanitary engineering and inspection:

*H. A. Kroeze, C. E., director, Jackson.

*I. L. Lyons, inspector, Gulfport.

Bureau of rural sanitation:

*C. E. Applewhite, M. D., director, Jackson.

*C. M. Shipp, M. D., epidemiologist in charge of malaria-control work, Jackson.

Bureau of venereal diseases:

*Hardie Hayes, M. D., director, Jackson.

MISSISSIPPI—Continued.**Appropriations for fiscal year ending Dec. 31, 1924:**

Administrative office.....	\$20,700
Bureau of vital statistics.....	12,000
Municipal sanitation.....	10,800
Rural sanitation.....	24,300
Hygienic laboratory.....	20,000
Child welfare.....	27,000
Venereal diseases.....	10,000
Total.....	124,800

**Publications issued by health department:
Biennial report.****MISSOURI.****Board of health:**

Emmett P. North, M. D., president, St. Louis.
R. S. Vitt, M. D., vice president, St. Louis.
Cortez F. Enloe, M. D., secretary, Jefferson City.

E. E. Brunner, M. D., Marshall.
T. A. Son, M. D., Bonne Terre.
T. H. Wilcoxon, M. D., Bowling Green.
J. R. McVay, M. D., Kansas City.

Executive health officer:

*Cortez F. Enloe, M. D., State health commissioner, Jefferson City.

Bureau of vital statistics:

G. A. Theilman, statistician, Jefferson City.

Division of child hygiene:

*Irl Brown Krause, M. D., director, Jefferson City.

Division of rural sanitation:

*Joseph Mountin, M. D., director, Jefferson City.

Division of venereal disease:

*R. L. Russell, M. D., director, Jefferson City.

Division for the control of contagious diseases:

*Ross Hopkins, M. D., assistant epidemiologist, Jefferson City.

Division of sanitary engineering:

*George W. Putnam, director, Jefferson City.

Appropriations for biennial period ending Dec. 21, 1924:

Board of health fund, bureau of license.....	\$20,000
Salaries.....	35,100
Salaries of sanitary-engineering department, suppressing of venereal diseases and tuberculosis, and the continuation and support of child hygiene and rural sanitation work.....	50,700
Cooperative rural sanitation and child hygiene work.....	100,000
Laboratory and contingent expense.....	36,000
Prevention of blindness, epidemic and laboratory services and biologics.....	50,000

Total..... 291,800
Of the above appropriation \$100,000 is being withheld by the governor until State revenues are sufficient for a release.

MONTANA.**Board of health:**

E. M. Porter, M. D., president, Great Falls.
E. G. Balsam, M. D., vice president, Billings.
B. L. Pampel, M. D., Livingston.

MONTANA—Continued.**Board of health—Continued.**

D. J. Donohue, M. D., Butte.
L. H. Fligman, M. D., Helena.

Executive health officer:

*W. F. Cogswell, M. D., secretary, Helena.

Division of communicable diseases:

*W. F. Cogswell, M. D., director.

Division of child welfare:

*Hazel Dell Bonness, M. D., director, Helena.

Division of food and drugs:

*H. M. Shea, director, Helena.

Division of vital statistics:

*W. F. Cogswell, M. D., State registrar, Helena.

*L. L. Benepe, deputy State registrar, Helena.

Division of water and sewage:

*H. B. Foote, director, Helena.
W. M. Cobleigh, consultant, Bozeman.
*G. D. Wiles, Analyst, Helena.

Food and drug laboratory:

*H. M. Shea, director, Helena.
W. M. Cobleigh, consultant, Bozeman.

Hygienic laboratory:

*John X. Newman, director, Helena.
*P. E. Griffin, technician, Helena.

Appropriations for the year ending June 30, 1924:

(Appropriations for salaries and expenses of State board of health are made in lump sum. The budget given is tentative and not arbitrarily fixed. Unexpended sums of one division may be diverted to other divisions when deemed necessary.)

General administration:

Salaries.....	\$6,800.00
Expenses.....	1,910.00
Division of child welfare.....	8,701.92
Hygienic laboratory.....	6,900.00
Inspection of water plants.....	4,000.00
Food and water laboratory.....	3,325.00
Enforcing foods and drugs law.....	4,650.00
Division of communicable diseases.....	4,425.00
Division of vital statistics.....	2,975.00
Board of entomology (Rocky Mountain spotted fever work).....	14,228.00
Total.....	57,914.92

Other sources of revenue:

Rockefeller Foundation..... 4,000.00
Fees for embalmers' licenses.

Publications issued by health department:

Special bulletins on communicable diseases.
Biennial report.

NEBRASKA.**Department of health and welfare:**

J. D. Case, M. D., superintendent, Lincoln.

Bureau of health—**Executive health officer—**

*J. D. Case, M. D., superintendent department of health and welfare, Lincoln.

Epidemiologist:

*J. D. Case, M. D., Lincoln.

Bacteriologist:

*L. O. Vose, Lincoln.

Division of venereal diseases:

*P. H. Bartholomew, M. D., director, Lincoln.

NEBRASKA—Continued.**Department of health and welfare—Continued.****Bureau of health—Continued.****Statistician:**

*J. D. Case, M. D., Lincoln.

Division of child hygiene:

*Mrs. C. H. England, director.

Sanitary engineer:**Medical examining board:**

J. E. Spatz, M. D., Fairfield.

H. J. Lehnhoff, M. D., Lincoln.

E. T. McGuire, M. D., Mead.

Appropriations for biennial period ending**June 30, 1925:**

Salaries.....\$45,000

Maintenance.....23,000

Total.....68,000

NEVADA.**State board of health:**

Jas. G. Scrugham, governor, president, Carson City.

S. L. Lee, M. D., secretary, Carson City.

W. G. Greathouse, secretary of State.

W. H. Hood, M. D., Reno.

Henry Albert, M. D., Reno.

Executive health officer:

*S. L. Lee, M. D., secretary, State board of health, Carson City.

State hygienic laboratory at State University:

Henry Albert, M. D., director, Reno.

Appropriation for fiscal year ending Dec. 31, 1924:

Salary of secretary.....\$5,000

State board of health.....3,800

Total.....8,800

Publications issued by health department:

Biennial report.

Special bulletins.

NEW HAMPSHIRE.**Board of health:**

Robert Fletcher, C. E., president, Hanover.

D. E. Sullivan, M. D., Concord.

George C. Wilkins, M. D., Manchester.

Sibley G. Morrill, M. D., Concord.

Fred H. Brown, governor, Somersworth.

Irving A. Hinkley, attorney general, Lancaster.

Executive health officer:

Charles Duncan, M. D., secretary State board of health, Concord.

Laboratory of hygiene:

*Charles D. Howard, chemist, Concord.

William R. McLeod, assistant bacteriologist, Concord.

*Joseph X. Duval, inspector, Concord.

*Charles L. Pool, sanitary engineer.

Robert Fletcher, C. E., engineer, Hanover.

Bacteriological laboratory:

H. N. Kingsford, M. D., pathologist, Hanover.

Veneral disease division:

*Charles A. Weaver, M. D., Manchester.

Appropriations for fiscal year ending June 30, 1925:

State board of health.....\$28,650

Laboratory of hygiene.....18,300

Vital statistics.....5,300

Total.....52,250

NEW HAMPSHIRE—Continued.**Publications issued by health department:**

Bulletin.

Biennial report.

NEW JERSEY.**Board of health:**

Thomas B. Lee, M. D., president, Camden.

Clyde Potts, C. E., vice president, Morristown.

H. E. Winter, V. M. D., Plainfield.

J. Oliver McDonald, M. D., Trenton.

Harold J. Harder, C. E., Paterson.

David D. Chandler, Newark.

Henry Spence, M. D., Jersey City.

Mrs. James E. Van Horne, Trenton.

Miss Margaret McNaughton, Jersey City.

J. E. H. Guthrie, D. D. S., Newark.

Executive health officer:

*Jacob C. Price, M. D., director of health, Trenton.

Bureau of bacteriology:

*John V. Mulcahy, chief, Trenton.

Bureau of chemistry:

*John E. Bacon, chief, Trenton.

Bureau of administration:

*Charles J. Merrell, chief, Trenton.

Bureau of food and drugs:

*Walter W. Scofield, chief, Trenton.

Bureau of child hygiene:

Julius Levy, M. D., consultant, Trenton.

Bureau of local health administration:

*David C. Bowen, chief, Trenton.

Bureau of engineering:

*H. P. Croft, chief, Trenton.

Bureau of vital statistics:

*David S. South, chief, Trenton.

Bureau of venereal disease control:

A. J. Casselman, M. D., consultant, Trenton.

Appropriations for fiscal year ending June**30, 1925:**

Salaries.....\$142,890

Miscellaneous.....67,300

Child hygiene.....65,000

Venereal disease control.....25,000

Tuberculosis.....10,000

Total.....310,190

Publications issued by health department:

Monthly bulletin.

Annual report.

NEW MEXICO.**Board of public welfare:**

Mrs. Francis S. Wilson, chairman, Santa Fe.

Dr. R. O. Brown, secretary, Santa Fe.

Mrs. B. Archibald, East Las Vegas.

Mrs. C. C. Meacham, Albuquerque.

Executive health officer:

*G. S. Luckett, M. D., director of public health, Santa Fe.

Division of preventable diseases:

*G. S. Luckett, M. D., chief, Santa Fe.

Division of vital statistics:

*P. M. Ruleau, chief, Santa Fe.

Division of sanitary engineering and sanitation:

*Paul S. Fox, B. S. in C. E., chief, Santa Fe.

Divisions of public health nursing and child hygiene:

*Matilda Harris, R. N., chief, Santa Fe.

[NEW MEXICO—Continued.]**Division of county health work:**

*D. B. Williams, M. D., chief, Santa Fe.

Public health laboratory:

*Myrtle Greenfield, chief, Albuquerque.

Appropriation for the years 1924 and 1925:

Bureau of public health, per annum. \$19, 237. 50

NEW YORK.**Public health council:**

Simon Flexner, M. D., LL. D., chairman, New York.

Homer Folks, LL. D., New York.

Henry N. Ogden, C. E., Ithaca.

Frederick F. Russell, M. D., New York.

Jacob Goldberg, M. D., Buffalo.

Stanton P. Hull, M. D., Petersburg.

Executive health officer:

*Matthias Nicoll, jr., M. D., commissioner of health, Albany.

Deputy commissioner of health:

*Paul B. Brooks, M. D., Albany.

Secretary:

*Edward H. Marsh, M. D.

Executive officer:

*Fenimore D. Beagle, Albany.

Division of public health education:

*B. R. Rickards, director, Albany.

Division of sanitation:

*Charles A. Holmquist, C. E., director, Albany

Division of vital statistics:

*Otto R. Eichel, M. D., director, Albany.

Division of child hygiene:

*Florence L. McKay, M. D., director, Albany.

Division of communicable diseases:

*Edward S. Godfrey, M. D., director, Albany.

Division of tuberculosis:

*Jonathan Pearson, M. D., director, Albany.

Division of venereal diseases:

*J. S. Lawrence, M. D., director, Albany.

Division of laboratories and research:

*Augustus B. Wadsworth, M. D., director, Albany.

Division of public health nursing:

*Mathilde S. Kuhlman, R. N., director, Albany.

Appropriations for fiscal year ending June

30, 1925:

Personal service.....	\$639, 350
Maintenance and operation	322, 500
Division of maternity, infancy, and child hygiene.....	206, 000
For State aid to county laboratories.....	50, 000
Construction of addition to laboratories and repairs.....	33, 500

Total..... 1, 251, 350

Other sources of revenue:

Fees from certified transcripts of birth, death, and marriage certificates, \$1,030 per annum.
Licensing laboratories, \$296.
Sale of serums, \$2,550.

Publications issued by health department:

Weekly Health News.
Quarterly Bulletin.

NORTH CAROLINA.**Board of health:**

J. Howell Way, M. D., president, Waynesville.

Richard H. Lewis, M. D., LL. D., Raleigh.

Thomas E. Anderson, M. D., Statesville.

A. J. Crowell, M. D., Charlotte.

Chas. O'H. Laughinghouse, M. D., Greenville.

E. J. Tucker, D. D. S., Roxboro.

Cyrus Thompson, M. D., Jacksonville.

D. A. Stanton, M. D., High Point.

James P. Stowe, Ph. G., Charlotte.

Executive health officer:

*W. S. Rankin, M. D., secretary State board of health and State health officer, Raleigh.

Assistant secretary:

*G. M. Cooper, M. D., Raleigh.

Laboratory of hygiene:

*C. A. Shore, M. D., director, Raleigh.

Deputy State registrar:

*F. M. Register, M. D., Raleigh.

Bureau of medical inspection of schools:

(vacant)

Bureau of engineering and inspection:

*H. E. Miller, C. E., director, Raleigh.

Bureau of maternity and infancy:

_____, director, Raleigh.

Deputy State health officers:

*E. F. Long, M. D., Western district, Raleigh.

*H. A. Taylor, M. D., Eastern district.

Appropriations for fiscal year ending June

30, 1924:

State board of health (executive office).....	\$46, 140. 34
Vital statistics.....	20, 000. 00
Laboratory of hygiene.....	75, 000. 00
School inspection.....	60, 000. 00
County health work.....	121, 600. 00
Epidemiology.....	30, 000. 00
Venereal disease control work.....	
Maternity and infancy.....	22, 259. 66
Engineering and inspection.....	50, 000. 00
Total.....	425, 000. 00

Other sources of revenue:

International Health Board.....	10, 000. 00
Federal Government.....	32, 706. 63
Counties, for county health work.....	150, 000. 00
Fees paid the laboratory.....	23, 000. 00

Publications issued by health department:

Monthly bulletin.
Special bulletins.
Biennial report.

NORTH DAKOTA.**Advisory health council:**

Minnie J. Nielson, superintendent public instruction, ex officio, Bismarck.

J. Gra-sick, M. D., president North Dakota

Tuberculosis Association, ex officio, Grand Forks.

Arne Oftedal, M. D., Fargo.

Fannie Dunn Quain, M. D., Bismarck.

F. E. Householder, D. D. S., Minot.

Executive health officer:

*A. A. Whittemore, M. D., State health officer, Bismarck.

NORTH DAKOTA—Continued.**Child hygiene and public health nursing:**

*Mayall M. Williams, M. D., director, Bismarck.

*Lena Schmidt, R. N., assistant, Bismarck.

Bureau of venereal diseases:

*F. R. Smyth, acting assistant surgeon, U. S. P. H. S., director, Bismarck.

Appropriations for biennial period ending June 30, 1925:**Salaries—**

State health officer, per year..... \$3,600.00

Clerical assistant, per year..... 2,400.00

Miscellaneous—

July 1, 1923, to June 30, 1924..... 3,000.00

July 1, 1924, to June 30, 1925..... 2,750.00

Maternity and child hygiene, per year..... 1,000.00

Independent of State board of health—
Donation to North Dakota Tuberculosis Association, per year..... 5,000.00

Appropriation for venereal disease work, per year..... 6,274.24

Appropriation for public health laboratories in university budget, per year..... 15,000.00

OHIO.**Public health council:**

John E. Monger, M. D., chairman, Columbus.

G. D. Lummis, M. D.

C. O. Probst, M. D.

F. C. Croxton.

R. M. Calfee.

James E. Bauman, secretary.

Executive health officer:

*John E. Monger, M. D., director of health, Columbus.

Assistant director of health:

*James E. Bauman.

Division of administration:

*James E. Bauman, chief.

*C. A. Orrison, chief clerk.

Bureau of publicity—

*Paul Mason, director.

Division of communicable diseases:

*Frank G. Boudreau, M. D., chief.

*E. J. Schwartz, M. D. chief epidemiologist.

Bureau of venereal diseases—

*C. P. Robbins, M. D., chief.

Bureau of trachoma clinics—

*R. B. Tate, M. D., chief.

Bureau of local health organization—

*E. R. Shafer, M. D., chief.

Division of sanitary engineering:

*W. H. Dittoe, chief.

Bureau of plumbing inspection—

*A. A. Manchester, chief.

Division of laboratories:

*Fred Berry, chief.

Division of vital statistics:

*Irvin C. Plummer, chief.

Division of hygiene:

*R. G. Leland, M. D., chief.

Bureau of tuberculosis—

*J. A. Frank, M. D., chief.

Bureau of child hygiene—

chief.

Bureau of hospitals—

*James A. Weis, chief.

OHIO—Continued.**Division of hygiene—Continued.****Division of public health nursing:**

*V. Lota Lorimer, R. N., chief.

Division of industrial hygiene:

*Nelson C. Dysart, M. D., chief.

Appropriations for fiscal year ending June 30, 1924:

Personal service..... \$178,420

Maintenance..... 128,051

State aid for health districts..... 225,000

Total..... 531,471

Publications issued by health department:

Monthly public health journal.

OKLAHOMA.**Executive health officer:**

*Carl Puckett, M. D., State health commissioner, Oklahoma.

Assistant State health commissioner and director of rural sanitation:

*D. T. Bowden, M. D.

Assistant State health commissioner and supervisor of sanitary inspectors:

*J. P. Folan, Oklahoma.

Director of bureau of epidemiology:

*J. F. Mahoney, P. A. Surg., U. S. P. H. S.

Director of bureau of maternity and infancy:

*Lucile Spire Blachly, M. D.

Director of laboratories:

*Henry C. Ricks, M. D.

Director of bureau of venereal disease control:

*J. C. Mahr, M. D.

Director of bureau of sanitary engineering:

*H. C. Darcey, Oklahoma.

Director of bureau of publicity:

*Gilbert Harrison, Oklahoma.

Registrar of vital statistics:

*W. B. Dennis, Oklahoma.

Appropriations for fiscal year ending June 30, 1925:

Salary of commissioner of health..... \$3,600.00

Salary of assistant commissioner of health..... 2,400.00

Salary of chief clerk..... 1,800.00

Salary of bookkeeper..... 2,000.00

Salaries, 3 stenographers (1 at \$1,800, 1 at \$1,500, 1 at \$1,200)..... 4,500.00

Contingent fund—administrative..... 10,000.00

Salary of director of publicity..... 2,400.00

Salary of stenographer..... 1,500.00

Contingent fund—public health education..... 1,000.00

Salary of State chemist..... 3,000.00

Salary of assistant State chemist..... 2,400.00

Salary of bacteriologist..... 3,000.00

Salary of assistant bacteriologist..... 2,400.00

Salary of record clerk..... 1,800.00

Contingent fund—laboratory..... 10,000.00

Salary of engineer..... 3,000.00

Contingent fund—sanitary engineering.. 1,800.00

Salary, 4 supervisors, \$2,400 each per annum..... 9,600.00

Hotel and traveling expenses, 4 supervisors..... 9,600.00

Salaries, 8 inspectors, \$1,800 each per annum..... 14,400.00

Contingent fund—sanitary inspection 14,400.00

OKLAHOMA—Continued.**Appropriations for fiscal year ending June 30, 1925—Continued.**

Salary of registrar.....	\$2,400.00
Salary of assistant registrar.....	1,800.00
Salaries, 3 statistical clerks, \$1,500 each.....	4,500.00
Contingent—vital statistics.....	4,000.00
Contingent—bureau of control epidemics.....	15,000.00
Contingent—bureau distribution biologies.....	10,000.00
Contingent—bureau of venereal diseases.....	20,000.00
Bureau of child welfare.....	21,370.52

OREGON.**Board of health:**

George E. Houck, M. D., president, Roseburg.
 C. M. Barbee, M. D., vice president, Portland.
 Frederick D. Stricker, M. D., secretary and State health officer, Portland.
 J. H. Rosenberg, M. D., Prineville.
 C. J. Smith, M. D., Portland.
 W. B. Morse, M. D., Salem.
 W. T. Phy, M. D., Hot Lake.

Executive health officer:

*Frederick D. Stricker, M. D., secretary and State health officer, Portland.

Assistant State health officer:

*H. S. Capps, M. D., Portland.

Register of vital statistics:

*Frederick D. Stricker, M. D., Portland.

Division child hygiene and public health nursing:

*Estella Ford Warner, M. D., chief, Portland.

Director laboratory:

*Wm. Levin, D. P. H., Portland.

Appropriation for fiscal year ending Dec. 31, 1924, \$40,000.

Publications issued by health department:

Annual report.

Biennial report.

Pamphlets and posters.

Weekly letter.

PENNSYLVANIA.**Department of health:****Advisory board—**

Edgar M. Green, M. D., Easton.
 A. A. Cairns, M. D., City Hall, Philadelphia.
 Samuel R. Haythorn, M. D., Pittsburgh.
 Howard C. Frontz, M. D., Huntingdon.
 Lewis Taylor, M. D., Wilkes-Barre.
 Charles F. Mebus, C. E., Philadelphia.

Executive health officer—

*Charles H. Miner, M. D., secretary of health, Harrisburg.

*William G. Turnbull M. D., deputy secretary of health.

Bureau of communicable diseases—

*J. Moore Campbell, M. D., Harrisburg.

Division of epidemiology—

*J. Moore Campbell, M. D., Harrisburg.

Division of tuberculosis—

*John D. Donnelly, M. D., Harrisburg.

Division of genito-urinary clinics—

*Edgar S. Everhart, M. D., Lemoynce.

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PENNSYLVANIA—Continued.**Department of health—Continued.****Bureau of communicable diseases—Contd.****Division of restaurant hygiene—**

*John M. Delaney, chief, Harrisburg.

Bureau of vital statistics—

*Wilmer R. Batt, M. D., Harrisburg.

Bureau of engineering, *W. L. Stevenson, chief engineer, Harrisburg.**Division of sanitary engineering—**

*H. E. Moses, Harrisburg.

Division of housing—

*H. F. Bronson, Harrisburg.

Division of milk control—

*Ralph E. Irwin, Camp Hill.

Bureau of tuberculosis sanatoria—**Mont Alto Sanatorium—**

*Royal H. McCutcheon, M. D., Mont Alto.

Cresson Sanatorium—

*Thos. H. A. Stites, M. D., Cresson.

Hamburg Sanatorium—

*Henry A. Gorman, M. D., Hamburg.

Bureau of child health, *J. Bruce McCreary, M. D., Shippensburg—**Pre-school division—**

*Mary Riggs Noble, M. D., Harrisburg.

School division—

*J. Bruce McCreary, M. D., Shippensburg.

Dental division—

*C. J. Hollister, D. D. S., Harrisburg.

Bureau of finance, *Clinton T. Williams, Harrisburg—**Division of accounts—**

*Clinton T. Williams, Harrisburg.

Division of purchases—

*Charles H. Clappier, jr., Harrisburg.

Division of supplies—

*Roy Miller, Harrisburg.

Division of laboratories—

*John L. Laird, M. D., Philadelphia.

Division of nursing—

*Alice M. O'Halloran, R. N., Harrisburg.

Division of public health education—

*William C. Miller, M. D., Harrisburg.

Division of drug control—

*James N. Lightner, Lancaster.

Appropriations for biennial period ending June 1, 1925, \$4,000,000.

PHILIPPINE ISLANDS.**Director of health:**

*Vicente de Jesus, M. D., Manila.

Assistant director of health:

*Salvador V. del Rosario, M. D., Manila.

Council of hygiene, advisory board to the director of health:

Fernando Calderon, M. D., president, Manila.

Leoncio Lopez Rizal, M. D., secretary, Manila.

Gervasio Ocampo, M. D., Manila.

José Albert, M. D., Manila.

Benito Valdez, M. D., Manila.

Eulogio P. Revilla, LL. B., Manila.

Thomas Earnshaw, Manila.

PHILIPPINE ISLANDS—Continued.**Executive officer:**

***Jose P. Bantug, M. D.**, acting executive officer, Manila.

Office of records and finance:

***Mamerto Tiano, chief**, Manila.

Office of property:

***Bonifacio Mencias, M. D.**, acting chief, Manila.

Office of vital statistics:

***Manuel Gomez, M. D.**, chief, Manila.

Office of general inspection:

***Rafael Villafranca, M. D.**, chief, Manila.

Office of public health nursing:

***Carmen R. Leogardo, R. N.**, chief, Manila.

Office of sanitary engineering:

***Manuel Mañosa, C. E.**, chief.

Division of communicable diseases:

***Leoncio Lopez Rizal, M. D.**, acting chief, Manila.

Division of metropolitan sanitation:

***Eugenio Hernando, M. D.**, chief, Manila.

Division of hospitals, dispensaries, and laboratories:

***Sisto Y. Orosa, M. D.**, acting chief, Manila.

Cullion leper colony:

***Jose Avellana Basa, M. D.**, chief, Cullion.

Division of provincial sanitation:

***Jacob Fajardo, M. D.**, chief, Manila.

Appropriations for fiscal year ending

Dec. 31, 1924:

Salaries and wages.....	\$429,749.00
Miscellaneous expenses.....	840,107.50
Treatment of segregated lepers....	125,000.00
Aid to specially organized provinces.....	203,450.00
School of nursing in Pagulo.....	3,600.00
Medicines, medical and surgical supplies, to be distributed among the dispensaries of the public schools.....	2,500.00

Total..... 1,604,406.50

Publications issued by the Philippine health service:

Daily Service News.

Monthly Bulletin.

Annual Report.

Occasional pamphlets.

PORTO RICO.**Insular board of health:**

Pedro Gutierrez Igaravidez, M. D., president, San Juan.

***José Y. De Guzmán Soto, M. D.**, secretary, San Juan.

W. A. Glines, M. D., San Juan.

Angel M. Pesquera, pharmacist, San Juan.

José A. Díaz, M. D., San Juan.

José S. Belval, M. D., San Juan.

G. A. Ramirez de Arellano, engineer, San Juan.

Executive health officer:

***Pedro W. Ortiz, M. D.**, commissioner of health, San Juan.

***A. Fernós Isern, M. D.**, assistant commissioner of health, San Juan.

Division of property and accounts:

***Abelardo Santiago**, chief, San Juan.

Division of sanitary engineering:

***Octavio Marciano**, sanitary engineer, San Juan.

PORTO RICO—Continued.**Bacteriological laboratory:**

***Pablo Morales Otero, M. D.**, director, San Juan.

Chemical laboratory:

***R. del Valle Sárraga**, chemist, director, San Juan.

Division of transmissible diseases:

***M. O. de la Rosa, M. D.**, chief, San Juan.

Bureau of statistics:

***Angel Paniagua**, chief, San Juan.

Appropriations for each of the fiscal years ending June 30, 1924, and June 30, 1925:

Office of the commissioner of health.....	\$265,483.50
Leper colony.....	33,150.25
Quarantine hospital.....	14,185.00
Antituberculosis sanatorium of Porto Rico.....	194,171.90
Blind asylum.....	51,071.00
Insular insane asylum.....	125,943.00
Education and maintenance of poor deaf and dumb children....	1,200.00
Care of tuberculosis patients in the sanatorium at Ponce under the control of the department health.....	20,000.00
Control and prevention of tuberculosis.....	100,000.00
For the control and prevention of venereal diseases.....	12,000.00
Bureau of social welfare.....	60,000.00
Extermination of mosquitoes and control and suppression of malaria.....	60,000.00
Suppression of anemia.....	60,000.00
Extermination of rats.....	40,000.00
Control and suppression of infantile tetanus and ophthalmia neonatorum.....	3,000.00
Emergency fund for the control and suppression of epidemics....	10,000.00
Girls' charity school.....	87,941.75
Boys' charity school.....	123,392.60
Sanitation fund, trust fund.....	188,367.50

Total..... 1,446,906.50

RHODE ISLAND.**Board of health:**

Thomas J. McLaughlin, M. D., president, Woonsocket.

William F. Williams, M. D., vice president, Bristol.

Alexander B. Briggs, M. D., Ashaway.

Berton W. Storrs, M. D., Portsmouth.

Joseph M. Bennett, M. D., Providence.

M. S. Budlong, M. D., Providence.

Executive health officer:

***B. U. Richards, M. D.**, secretary State board of health and State registrar, statehouse, Providence.

Pathologist:

Lester A. Round, Ph. D., Providence.

Chemist:

Stephen De M. Gage, Providence.

RHODE ISLAND—Continued.**Appropriations for 11 months ending****Nov. 30, 1923:**

Executive department.....	\$22,882.75
Chemical laboratory.....	15,507.28
Pathological laboratory.....	16,672.49
Child-welfare division.....	16,500.00
Total.....	71,562.52

SOUTH CAROLINA.**Executive committee, board of health:**

Robert Wilson, jr., M. D., chairman, Charleston.

R. A. Marsh, M. D., Edgefield.

C. C. Gambrell, M. D., Abbeville.

E. A. Hines, M. D., Seneca.

W. R. Wallace, M. D., Chester.

William Egleston, M. D., Hartsville.

S. C. Calder, Ph. G., Greenville.

W. M. Lester, M. D., Columbia.

Samuel M. Wolfe, attorney general, Columbia.

Walter E. Duncan, comptroller general, Columbia.

Executive health officer:

*James A. Hayne, M. D., State health officer, Columbia.

Department of county health units:

*L. A. Riser, M. D., Columbia.

Bureau of child hygiene:

*Miss Ada Taylor Graham, R. N., supervisor of public health nursing, Columbia.

Bureau of venereal diseases:

*James A. Hayne, M. D., Columbia.

Laboratory department:

*H. M. Smith, M. D., in charge, Columbia.

*J. R. Cain, chief bacteriologist, Columbia.

Bureau of vital statistics:

*C. W. Miller, Columbia.

Bacteriologist and chemist:

F. L. Parker, jr., M. D., Ph. D., Columbia.

South Carolina Sanatorium:

*Ernest Cooper, M. D., superintendent, Columbia.

Epidemiologist:

*A. H. Hayden, M. D., Columbia.

Sanitary engineer:

*E. L. Filby, C. E., Columbia.

State hotel inspector:

*J. H. Woodward, Columbia.

Appropriations for fiscal year ending**Dec. 31, 1924:**

Administrative office.....	\$49,484.30
Bureau of child hygiene.....	9,900.00
Bureau of vital statistics.....	7,575.00
Maternity-infancy work.....	6,000.00
Laboratory.....	11,750.00
Bureau of rural sanitation.....	19,107.94
Malaria cooperative work.....	14,550.00
Tuberculosis sanatoria.....	98,600.00
Hotel inspection.....	5,240.00
Aid for crippled children.....	5,600.00
Total.....	227,207.24

Publications issued by health department:

Annual report.

Bulletins of various departments.

SOUTH DAKOTA.**Board of health:**

J. W. Freeman, M. D., president, Lead.

R. D. Alway, M. D., vice president, Aberdeen.

J. Howard Smith, M. D., Huron.

H. R. Kenaston, M. D., Bonesteel.

Park B. Jenkins, M. D., superintendent, Waubay.

Executive health officer:

*Park B. Jenkins, M. D., superintendent and executive officer, Waubay.

Division of vital statistics:**Division of preventable diseases:**

*Park B. Jenkins, M. D., director.

Division of child hygiene:

*Clara Edna Hayes, M. D., director.

*Miss Florence Walker, R. N., supervisor of public health nursing.

Division of sanitary engineering:

*A. H. Wisters, director.

Division of education and publicity:

M. C. Haecker, director.

Division of medical licensure:

H. R. Kenaston, M. D., director.

Division of records and accounts:

*Edna Jenkins, director.

State laboratories at Vermilion:

*J. C. Ohlmacher, M. D., director.

Appropriations for the fiscal years

	1923-24 and 1924-25:	1923-24	1924-25
Salary, superintendent.....		\$3,200	\$3,200
Administration, vital statistics, sanitary engineering, child hygiene.....		17,600	17,600
Education and publicity.....		5,500	5,500
Medical licensure.....		1,000	1,000
Records and accounts.....		3,000	3,000
Biological products.....		2,500	2,500
General maintenance.....		4,000	4,000
Preventable diseases.....		4,000	4,000
Separate appropriation for child hygiene.....		10,000	10,000
Total.....		50,800	50,800

TENNESSEE.**Department of public health:**

*C. B. Crittenden, M. D., commissioner, Nashville.

Division of vital statistics:

*J. B. Bond, M. D., superintendent, Nashville.

Division of rural sanitation:

*E. L. Bishop, M. D., C. P. H., superintendent, Nashville.

Division of laboratories:

William Litterer, M. D., bacteriologist, Nashville.

Division of sanitary engineering:

*Howard R. Fullerton, C. E., director, Nashville.

Division of venereal disease control:

*C. B. Crittenden, M. D., acting director, Nashville.

State supervising nurse:

*Miss M. G. Nisbet, R. N., Nashville.

TENNESSEE—Continued.**Division of maternity and infant hygiene:**

*Evelyn G. Chase, R. N., superintendent,
Nashville.

Appropriations for biennial period ending June 30, 1925:

Administration.....	\$17,400.00
Epidemic fund.....	5,000.00
Trachoma fund.....	4,000.00
Vital statistics fund.....	24,800.00
Sanitary engineering fund.....	21,800.00
Laboratory fund.....	29,440.00
Rural sanitation fund.....	32,200.00
Maternity and child welfare fund....	20,000.00
Venereal disease control fund (unexpended balance) (exclusive of Federal allotment amounting to \$2,211.50).....	15,571.30

Total..... 170,211.30

Other sources of revenue:

International Health Board, rural sanitation,
\$39,500. (Variable.)

United States Department of Labor, maternity and child welfare, \$25,000.

United States Public Health Service, venereal disease control, \$2,211.59.

International Health Board, cooperation in malaria control and laboratory; American Red Cross, cooperation in nursing service; United States Public Health Service, cooperation in malaria control; individual counties and cities in State, cooperation in malaria control, rural sanitation, and maternity and child welfare.

TEXAS.**Board of health:**

Malone Duggan, M. D., president, Austin.
M. F. Bledsoe, M. D., Port Arthur.
T. B. Fisher, M. D., Dallas.
W. F. Holland, M. D., Santa Ana.
J. W. Torbett, M. D., Marlin.
Frank Paschal, M. D., San Antonio.

Executive health officer:

*Malone Duggan, M. D., Austin.

Bureau of laboratory:

Elizabeth Barrickman, director, Austin.

Bureau of rural sanitation:

*Aleck P. Harrison, M. D., director, Austin.

Bureau of vital statistics:

*C. E. Durham, M. D., Austin (in charge).

Bureau of venereal diseases:

*C. E. Durham, M. D., director, Austin.
*James Makins, M. D., epidemiologist, Austin.

Bureau of food and drugs:

W. W. Battle, director, Austin.

Bureau of child hygiene:

*H. Garst, M. D., director, Austin.
Jane L. Duffy, R. N., supervising nurse.

Bureau of sanitary engineering:

*V. M. Ehlers, C. E., director, Austin.
*E. G. Eggert, assistant sanitary engineer, Austin.
*Carl Martin, sanitarian, Jacksonville.
*E. W. Steel, C. E., sanitary engineer, Austin.
*E. Whedbee, C. E., sanitary engineer, Bonham.

TEXAS—Continued.**Appropriations for fiscal year ending**

Aug. 31, 1924:

General.....	\$146,467.52
Special funds.....	56,350.52
Total.....	202,818.04

Publications issued by health department:

Biennial report.
Quarterly health magazine.
Pamphlets, leaflets, and placards.
Weekly newspaper articles.

UTAH.**Board of health:**

Fred Stauffer, M. D., president, Salt Lake City.
T. B. Beatty, M. D., secretary, Salt Lake City.
Joseph R. Morrell, M. D., Ogden.
Mrs. Valeria B. Young, Salt Lake City.
Carl Hopkins, Ogden.
S. S. Burnham, D. D. S., Salt Lake City.
Chas. J. Ullrich, C. E., Salt Lake City.

Executive health officer:

*T. B. Beatty, M. D., State health commissioner, Salt Lake City.

Appropriations for biennial period ending

Mar 31, 1925:

Salaries.....	\$25,760
Office expenses.....	5,890
Travel.....	4,400
Equipment.....	700
Child hygiene.....	13,240
Total.....	49,990

Publications issued by health department:

Quarterly bulletin.
Biennial report.

Fiscal year ends Dec. 31.

VERMONT.**Board of health:**

F. Thomas Kidder, M. D., chairman, Woodstock.
William G. Ricker, M. D., St. Johnsbury.
Edward J. Rogers, M. D., Pittsford.

Executive health officer:

*Charles F. Dalton, M. D., secretary State board of health, Burlington.

Laboratory of hygiene:

*Charles F. Whitney, M. D., director, Burlington.

Sanitary engineering:

J. W. Votey, C. E., Burlington.

Sanitary inspecting:**Division of venereal diseases:****Division of tuberculosis:**

*H. W. Slocum, Burlington.

Division of poliomyelitis:

*W. L. Aycock, M. D., research, Burlington.
*Bertha E. Weisbrod, R. N., after-care, Burlington.

Appropriations for fiscal year ending June 30, 1924:

Total budget, \$40,000.

Other sources of revenue:

Private donations for study and treatment of infantile paralysis.

Publications issued by health department:

Quarterly bulletin.
Biennial report.

VIRGINIA.**Board of health:**

W. M. Smith, M. D., president, Alexandria.
 J. B. Fisher, M. D., secretary, Midlothian.
 J. T. Wilson, Richmond.
 W. T. Graham, M. D., Richmond.
 Mrs. Chas. Hall Davis, Petersburg.
 John T. Daniel, Cape Charles.
 Isaac Peirce, M. D., Tazewell.
 W. F. Drewry, M. D., Petersburg.
 T. J. George, M. D., Stuart.
 H. T. Marshall, M. D., University of Virginia.
 Guy R. Harrison, D. D. S., Richmond.
 Hugh J. Hagan, M. D., Roanoke.
 L. T. Royster, M. D., Norfolk.
 A. L. Tynes, M. D., Staunton.

Executive health officer:

*Ennon G. Williams, M. D., State health commissioner, Richmond.

Assistant health commissioner:

*Roy K. Flannagan, M. D., Richmond.

Registrar of vital statistics:

*W. A. Piecker, M. D., Richmond.

Bacteriologist:

*A. H. Straus, Richmond.

Sanitary engineer:

*Richard Messer, C. E., Richmond.

Bureau of child welfare:

*Mary E. Brydon, M. D., director.

Public health nursing:

*Nannie B. Minor, R. N., director.

Tuberculosis education:

*Agnes D. Randolph, R. N., director.

Appropriations for fiscal year ending Feb. 28, 1925:

Administration.....	\$22, 110
Sanitary engineering.....	16, 200
Publicity.....	5, 600
Rural sanitation.....	25, 000
Malaria.....	5, 000
Inspection of convict camps.....	750
Laboratory.....	24, 150
Child welfare and public health nursing.....	38, 000
Veneral diseases.....	2, 200
Control of epidemics.....	5, 000
Vital statistics.....	22, 530
For collection and publication of marriage and divorce statistics.....	2, 855
Prevention of blindness.....	2, 300
Tuberculosis education.....	23, 350
Total.....	195, 045

Publications issued by health department:

Monthly bulletin.
 Biennial report.

WASHINGTON.**Board of health:**

Paul A. Turner, M. D., director of health, chairman.
 W. W. Brand, M. D.
 James H. Egan, M. D.
 R. E. Elvins, M. D.
 Herbert C. Lieser, M. D.
 C. E. Dorisy, C. E., secretary, Seattle.

Executive health officer:

*Paul A. Turner, M. D., director of health, Seattle.

WASHINGTON—Continued.**Epidemiologist:**

*A. U. Simpson, M. D., Seattle.

Chief of laboratory:

*A. U. Simpson, M. D., Seattle.

Sanitary engineer:

*C. E. Dorisy, C. E., Seattle.

Registrar:

*C. E. Dorisy, C. E., Seattle.

Division of child hygiene:

H. E. Coe, chief.

*Jane Teare Dahlman, executive secretary.

*Ella S. Erikson, R. N., advisory nurse.

Appropriations for biennial period ending Mar. 31, 1925:

Operations.....	\$79, 000
Capital outlays.....	1, 832
	<hr/> \$80, 832
Division of child hygiene.....	10, 000
Tuberculosis hospitals.....	190, 000
(State aid to local sanatoria.)	

WEST VIRGINIA.**Public health council:**

W. M. Babb, M. D., president, Keyser.

J. L. Pyle, M. D., Chester.

W. T. Henshaw, M. D., commissioner of health, Charleston.

H. G. Camper, M. D., Welch.

O. H. Jennings, M. D., Williamson.

V. T. Churchman, M. D., Charleston.

Thos. L. Harris, M. D., Parkersburg.

Executive health officer:

*W. T. Henshaw, M. D., commissioner of health, Charleston.

Division of sanitary engineering:

*Ellis S. Tisdale, chief engineer, Charleston.

*F. J. Lavery, assistant engineer, Charleston.

*Louis F. Warrick, assistant engineer, Charleston.

Division of vital statistics:

*Carl F. Raver, M. D., M. P. H., Charleston.

Division of child welfare and public health nursing:

*Jean T. Dillon, R. N., director, Charleston.

*Edna M. Hardsaw, R. N., field advisory nurse.

*Gertrude H. Wuesthoff, R. N., field advisory nurse.

*Ruth E. Occomy, R. N., field advisory nurse for negroes.

Hygienic laboratory:

*Chas. E. Gabel, Ph. D., director, Charleston.

*Lucy F. Gabel, chemist, Charleston.

*F. C. Schroder, assistant bacteriologist, Charleston.

Bureau of venereal diseases:

W. S. Robertson, M. D., director, Charleston.

*Permella C. Shields, associate director, Charleston.

*F. C. Williams, field worker among negroes.

Bureau of rural sanitation:

*M. V. Ziegler, M. D., passed assistant surgeon, U. S. P. H. S., director, Charleston.

Division of public health education:

*Ada L. Coddington, director, Charleston.

WEST VIRGINIA—Continued.**Appropriations for fiscal year ending June 30, 1924:**

For general use.....	\$60,000
Salary of commissioner.....	4,800
Bureau of venereal diseases.....	21,000
State Sheppard-Towner.....	5,000
Total.....	90,800

Other sources of revenue:

- Fees for granting certificates to practice medicine.
- Fees from laboratory work for private individuals.

Expense of cooperative work with the Federal Government Sheppard-Towner act relating to maternal and infant hygiene, \$10,000.

- Publications issued by health department:
 - Quarterly bulletin.
 - Annual report.

WISCONSIN.**Board of health:**

- Wm. F. Whyte, M. D., president, Madison.
- L. A. Steffen, M. D., Antigo.
- E. S. Hayes, M. D., Eau Claire.
- G. Windesheim, M. D., Kenosha.
- Mina B. Glasier, M. D., Bloomington.
- Otho Fiedler, M. D., Sheboygan.
- C. A. Harper, M. D., health officer, Madison.
- *L. W. Hutchcroft, assistant State health officer, Madison.

Executive health officer:

- *C. A. Harper, M. D., State health officer, Madison.

Bureau of vital statistics:

- *C. A. Harper, M. D., State registrar, Madison.

Bureau of communicable diseases:

- *H. M. Guilford, M. D., director, Madison.

Bureau of sanitary engineering:

- *C. M. Baker, State sanitary engineer, Madison.

- *E. J. Tully, chemical engineer, Madison.

Bureau of education:

- *L. W. Bridgman, acting director, Madison.

Bureau of child welfare and public health nursing:

- *Mrs. Mary P. Morgan, director, Madison.

Bureau of nursing education:

- *Adda Eldredge, R. N., director, Madison.

Bureau of plumbing and domestic sanitary engineering:

- *Frank R. King, State domestic sanitary engineer, Madison.

Bureau of social hygiene:

- *H. M. Guilford, M. D., director, Madison.

Laboratory service:

- *W. D. Stovall, M. D., director, State laboratories, Madison.
- *M. S. Nichols, chemist, State laboratory, Madison.
- *Katherine Wattawa, director branch laboratory, Rhinelander.

WISCONSIN—Continued.**Laboratory service—Continued.**

- *Dorothy Packard, director cooperative laboratory, Superior.
- *A. H. Broche, M. D., director, cooperative laboratory, Oshkosh.
- *Henry Miller, director cooperative laboratory, Kenosha.
- *Josephine Foote, director cooperative laboratory, Wausau.
- *Ruth Kuhns, director cooperative laboratory, Green Bay.
- *Marion Anderson, director cooperative laboratory, Beloit.
- *Clarissa McFetridge, director, cooperative laboratory, Green Bay.

Appropriations for fiscal year ending June 30, 1924:

General administration.....	\$51,000
Emergency appropriation for epidemics.....	7,500
Branch laboratory and State cooperative laboratories.....	9,000
Prevention of infantile blindness.....	1,000
Venereal disease control work.....	36,370
Bureau of sanitary engineering.....	17,000
Bureau of communicable diseases.....	13,300
Bureau of child welfare and public health nursing.....	23,000
Comfort station supervision.....	5,000
Licensing of embalmers, hotels and restaurants, plumbers, beauty parlors, nurses, and barbers.....	57,650
Total.....	220,820

Publications issued by health department:

- Quarterly bulletin.
- Biennial report.

WYOMING.**Board of health:**

- C. Y. Beard, M. D., president, Cheyenne.
- R. W. Hale, M. D., vice president, Thermopolis.
- G. M. Anderson, M. D., secretary and executive officer, Cheyenne.
- Earl E. Whedon, M. D., Sheridan.
- Edw. S. Lauzer, M. D., Rock Springs.

Executive health officer:

- *G. M. Anderson, M. D., State health officer, Cheyenne.

Infant and maternal hygiene:

- Louise Buford, R. N., supervisor.

Appropriations for biennial period ending

Mar. 31, 1925:

State board of health.....	\$10,000
Salary of secretary.....	8,000
Salary board members.....	500
Bureau of maternity and infant hygiene.....	6,000
Total.....	24,500

Publications issued by health department:

- Biennial report.
- Bimonthly bulletin.

DEATHS DURING WEEK ENDED AUGUST 9, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended August 9, 1924, and corresponding week of 1923. (From the Weekly Health Index, August 12, 1924, issued by the Bureau of the Census, Department of Commerce.)

	Week ended August 9, 1924.	Corresponding week, 1923.
Policies in force.....	56, 683, 926	53, 095, 777
Number of death claims.....	9, 119	6, 905
Death claims per 1,000 policies in force, annual rate.....	8. 4	6. 8

Deaths from all causes in certain large cities of the United States during the week ended August 9, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, August 12, 1924, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended Aug. 9, 1924.		Annual death rate per 1,000 corre- sponding week, 1923.	Deaths under 1 year.		Infant mortal- ity rate, week ended Aug-9, 1924. ¹
	Total deaths.	Death rate. ¹		Week ended Aug. 9, 1924.	Corre- sponding week, 1923.	
Total (65 cities).....	5, 506	10. 6	³ 10. 4	812	³ 772	-----
Akron.....	14			1	4	11
Albany.....	37	16. 3	8. 4	2	2	46
Atlanta.....	81	18. 5	18. 7	11	13	
Baltimore.....	192	12. 8	12. 1	34	31	101
Birmingham.....	60	15. 6	10. 9	8	5	
Boston.....	156	10. 5	10. 2	29	18	80
Bridgeport.....	23			3	2	48
Buffalo.....	113	10. 8	10. 2	17	17	72
Cambridge.....	17	7. 9	12. 2	2	5	35
Canden.....	25	10. 3	13. 4	4	6	66
Chicago.....	485	8. 6	8. 9	76	75	71
Cincinnati.....	126	16. 1	15. 8	16	15	100
Cleveland.....	136	7. 8	8. 2	19	24	48
Columbus.....	64	12. 5	14. 2	6	14	57
Dallas.....	42	11. 7	12. 9	5	11	
Dayton.....	38	11. 7	9. 5	7	9	117
Denver.....	66			9	13	
Des Moines.....	22	7. 9	8. 1	1	0	
Detroit.....	202			41	36	76
Duluth.....	11	5. 3	7. 4	1	0	22
Erie.....	33			3	1	62
Fall River.....	23	9. 9	12. 1	7	7	99
Flint.....	13			5	6	86
Fort Worth.....	18	6. 3	8. 7	2	7	
Grand Rapids.....	20	7. 0	7. 9	4	6	62
Houston.....	59			10	2	
Indianapolis.....	99	14. 7	12. 8	11	9	81
Jacksonville, Fla.....	26	13. 2	14. 1	4	2	
Jersey City.....	60	10. 0	11. 0	6	5	43
Kansas City, Kans.....	34	15. 1	9. 9	10	4	193
Kansas City, Mo.....	96	13. 9	11. 6	15	20	
Los Angeles.....	153			10	15	31
Louisville.....	54	10. 9	17. 4	8	17	75
Lowell.....	31	14. 0	10. 9	4	5	71
Lynn.....	16	8. 0	9. 6	0	2	0
Memphis.....	60	18. 2	13. 8	10	8	
Milwaukee.....	88	9. 3	8. 1	13	13	62
Minneapolis.....	81	10. 1	8. 9	8	7	43
Nashville.....	62	26. 2	17. 4	8	4	
New Bedford.....	35	13. 8	8. 0	8	2	125
New Haven.....	41	12. 2	10. 2	10	5	132
New Orleans.....	132	16. 8	16. 8	14	15	
New York.....	1, 072	9. 3	9. 5	137	148	56
Bronx Borough.....	118	7. 1	6. 4	13	8	46
Brooklyn Borough.....	336	8. 0	8. 7	44	51	47

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 1923. Cities left blank are not in the registration area for births.

³ Data for 63 cities.

⁴ Deaths for week ended Friday, Aug. 8, 1924.

Deaths from all causes in certain large cities of the United States during the week ended August 9, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, August 12, 1924, issued by the Bureau of the Census, Department of Commerce.)—Continued.

City.	Week ended Aug. 9, 1924.		Annual death rate per 1,000 corresponding week, 1923.	Deaths under 1 year.		Infant mortality rate, week ended Aug. 9, 1924.
	Total deaths.	Death rate.		Week ended Aug. 9, 1924.	Corresponding week, 1923.	
New York—Continued.						
Manhattan Borough.....	474	10.9	11.5	65	76	66
Queens Borough.....	165	9.9	8.8	10	7	50
Richmond Borough.....	39	15.6	13.1	3	6	55
Newark, N. J.....	84	9.8	9.5	10	10	47
Norfolk.....	32	10.2	11.1	2	8	36
Oakland.....	51	10.8	9.3	6	3	75
Oklahoma City.....	14	7.0		3		
Omaha.....	48	12.0	14.3	7	7	75
Paterson.....	22	8.2	5.6	1	1	17
Philadelphia.....	400	10.7	9.7	68	54	87
Pittsburgh.....	158	13.2	11.5	32	30	108
Portland, Oreg.....	42	7.9	7.4	3	5	31
Providence.....	54	11.6	9.9	9	7	73
Richmond.....	51	14.5	15.8	13	11	158
Rochester.....	61	9.8		10		79
St. Louis.....	187	12.0	11.1	22	27	
St. Paul.....	41	8.8	9.1	5	6	43
Salt Lake City *.....	18	7.3	9.5	2	2	40
San Antonio.....	42	11.4	11.3	12	6	
San Francisco.....	121	11.5	11.1	4	9	24
Schenectady.....	24	12.5	8.4	2	2	59
Seattle.....	55			2	6	20
Somerville.....	12	6.2	8.4	1	3	27
Spokane.....	21			2	2	44
Springfield, Mass.....	20	7.0	8.7	7	6	118
Syracuse.....	26	7.2	12.2	4	1	50
Tacoma.....	20	10.1	5.1	3	0	72
Toledo.....	51	9.6	12.4	7	8	66
Trenton.....	22	8.8	6.5	5	0	83
Utica.....	25	12.4	9.1	6	3	131
Washington, D. C.....	111	11.9	14.4	16	18	93
Waterbury.....	8			0	7	0
Wilmington, Del.....	22	9.6	10.2	11	0	246
Worcester.....	45	12.0	7.6	12	5	144
Yonkers.....	16	7.6	9.7	6	3	131
Youngstown.....	33	11.1	6.9	6	6	83

* Deaths for week ended Friday, Aug. 8, 1924.

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT WEEKLY STATE REPORTS.

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

Reports for Week Ended August 16, 1924.

ARIZONA.		CONNECTICUT—continued.	
	Cases.		Cases.
Chicken pox.....	1	Dysentery (bacillary).....	2
Diphtheria.....	3	German measles.....	1
Malta fever.....	5	Lethargic encephalitis.....	1
Measles.....	5	Measles.....	5
Mumps.....	4	Mumps.....	8
Polioomyelitis.....	1	Pneumonia (lobar).....	3
Scarlet fever.....	5	Polioomyelitis.....	3
Smallpox.....	1	Scarlet fever.....	32
Tuberculosis.....	34	Septic sore throat.....	6
Typhoid fever.....	5	Tetanus.....	1
Whooping cough.....	2	Tuberculosis (all forms).....	24
		Typhoid fever.....	11
		Whooping cough.....	43
ARKANSAS.		DELAWARE.	
Chicken pox.....	5	Influenza.....	4
Influenza.....	4	Measles.....	1
Malaria.....	105	Tuberculosis.....	4
Measles.....	13	Typhoid fever.....	1
Mumps.....	8	Whooping cough.....	1
Ophthalmia neonatorum.....	1		
Pellagra.....	3	FLORIDA.	
Trachoma.....	1	Cerebrospinal meningitis.....	2
Tuberculosis.....	2	Diphtheria.....	5
Typhoid fever.....	30	Influenza.....	9
Whooping cough.....	12	Leprosy.....	3
COLORADO.		Malaria.....	38
(Exclusive of Denver.)		Ophthalmia neonatorum.....	1
Diphtheria.....	5	Pneumonia.....	34
Impetigo contagiosa.....	1	Scarlet fever.....	1
Measles.....	1	Trachoma.....	3
Scarlet fever.....	6	Typhoid fever.....	22
Smallpox.....	1	Typhus fever.....	1
Tuberculosis.....	92		
Typhoid fever.....	5	GEORGIA.	
Whooping cough.....	2	Cerebrospinal meningitis.....	1
CONNECTICUT.		Diphtheria.....	20
Cerebrospinal meningitis.....	2	Dysentery (bacillary).....	5
Chicken pox.....	4	Hookworm disease.....	8
Diphtheria.....	28		

GEORGIA—continued.

Cases.

Malaria	17
Measles	1
Mumps	2
Pellagra	1
Pneumonia	12
Scarlet fever	5
Septic sore throat	2
Smallpox	5
Tetanus	1
Tuberculosis (pulmonary)	12
Typhoid fever	32
Whooping cough	9

ILLINOIS.

Cerebrospinal meningitis:	
Cook County	2
St. Clair County	1
Winnebago County	1
Diphtheria:	
Cook County	32
Scattering	28
Influenza	55
Lethargic encephalitis:	
McLean County	1
Peoria County	2
Winnebago County	2
Measles	61
Pneumonia	191
Poliomyelitis:	
Clay County	1
Cook County	4
Franklin County	1
Scarlet fever:	
Cook County	15
Scattering	30
Smallpox:	
Lake County	10
Scattering	5
Tuberculosis	454
Typhoid fever	40
Whooping cough	172

KANSAS.

Cerebrospinal meningitis	3
Chicken pox	5
Diphtheria	15
Measles	9
Mumps	22
Pneumonia	8
Poliomyelitis	1
Scarlet fever	19
Smallpox	3
Tuberculosis	18
Typhoid fever	24
Whooping cough	48

LOUISIANA.

Diphtheria	6
Hookworm disease	8
Malaria	10
Measles	7
Paratyphoid fever	1
Pneumonia	7
Scarlet fever	4
Tuberculosis	28
Typhoid fever	28

MAINE.

Cases.

Chicken pox	3
Conjunctivitis	15
Diphtheria	10
Influenza	3
Measles	6
Mumps	10
Pneumonia	1
Poliomyelitis	7
Scarlet fever	13
Septic sore throat	3
Tuberculosis	7
Typhoid fever	9
Whooping cough	27

MARYLAND.¹

Cerebrospinal meningitis	1
Chicken pox	5
Diphtheria	25
Dysentery	11
Influenza	15
Malaria	5
Measles	20
Mumps	9
Paratyphoid fever	2
Pneumonia (all forms)	14
Poliomyelitis	15
Scarlet fever	7
Tetanus	1
Tuberculosis	62
Typhoid fever	40
Vincent's angina	1
Whooping cough	54

MASSACHUSETTS.

Cerebrospinal meningitis	1
Chicken pox	14
Conjunctivitis (suppurative)	4
Diphtheria	98
Dysentery	1
German measles	2
Hookworm disease	1
Lethargic encephalitis	2
Malaria	8
Measles	35
Mumps	24
Ophthalmia neonatorum	11
Pneumonia (lobar)	23
Poliomyelitis	9
Scarlet fever	46
Septic sore throat	3
Tetanus	1
Trichinosis	1
Tuberculosis (all forms)	145
Typhoid fever	18
Whooping cough	67

MICHIGAN.

Diphtheria	62
Measles	40
Pneumonia	19
Scarlet fever	95
Smallpox	15
Tuberculosis	42
Typhoid fever	16
Whooping cough	142

¹ Week ended Friday.

Reports for Week Ended August 9, 1924.

Deaths.

SUMMARY OF MONTHLY REPORTS FROM STATES.

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

State.	Cerebro-spinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Polio-myelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>May, 1924.</i>										
District of Columbia	0	25	8	-----	106	0	1	141	36	5
<i>June, 1924.</i>										
District of Columbia	0	17	5	-----	52	0	1	82	7	3
<i>July, 1924.</i>										
Arizona	0	1	0	0	29	0	0	9	5	13
District of Columbia	0	15	1	-----	15	0	0	38	1	10
Georgia	-----	12	4	88	5	5	4	28	28	138
Massachusetts	8	412	9	5	939	6	12	381	2	49
New Jersey	8	235	7	7	650	-----	4	189	17	50
Wisconsin	5	150	39	0	413	0	4	275	85	17

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.

Diphtheria.—For the week ended August 2, 1924, 33 States reported 893 cases of diphtheria. For the week ended August 4, 1923, the same States reported 1,149 cases of this disease. One hundred and two cities, situated in all parts of the country and having an aggregate population of more than 28,600,000, reported 477 cases of diphtheria for the week ended August 2, 1924. Last year for the corresponding week they reported 562 cases. The estimated expectancy for these cities was 583 cases. The estimated expectancy was based on the experience of the last nine years, excluding epidemics.

Measles.—Twenty-nine States reported 928 cases of measles for the week ended August 2, 1924, and 2,357 cases for the week ended August 4, 1923. One hundred and two cities reported 406 cases of measles for the week this year, and 512 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-three States—this year, 798 cases; last year, 884 cases. One hundred and two cities—this year, 332 cases; last year, 314 cases; estimated expectancy, 245 cases.

Smallpox.—For the week ended August 2, 1924, 33 States reported 302 cases of smallpox. Last year for the corresponding week they reported 194 cases of this disease. One hundred and two cities reported smallpox for the week as follows: 1924, 113 cases; 1923, 73 cases; estimated expectancy, 48 cases.

Typhoid fever.—Seven hundred and five cases of typhoid fever were reported for the week ended August 2, 1924, by 33 States. For the corresponding week of 1923, the same States reported 842

cases. One hundred and two cities reported 189 cases of typhoid fever for the week this year and 187 cases for the week last year. The estimated expectancy for these cities for the week was 200 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 102 cities as follows: 1924, 306 deaths; 1923, 291 deaths.

City reports for week ended August 2, 1924.

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

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

Division, State, and city.	Chick- en pox, cases re- ported	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.		
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.	
NEW ENGLAND.											
Maine:											
Lewiston.....	4	1	0	0	0	0	0	1	1	2	0
Portland.....	1	2	1	0	0	0	2	1	1	0	0
New Hampshire:											
Concord.....	0	1	0	0	0	0	0	0	1	1	0
Manchester.....	0	1	0	0	0	0	0	3	0	0	0
Nashua.....	0	0	0	0	0	1	0	0	0	1	0
Vermont:											
Barre.....	0	0	0	0	0	0	0	0	1	0	0
Burlington.....	1	1	0	0	0	0	0	0	0	1	0
Massachusetts:											
Boston.....	1	35	24	1	0	21	6	8	12	0	18
Fall River.....	0	3	2	1	1	0	0	0	0	2	0
Springfield.....	1	1	1	0	0	2	2	0	1	3	0
Worcester.....	1	2	0	0	0	3	0	1	1	1	0
Rhode Island:											
Pawtucket.....	0	1	1	0	0	2	0	0	0	0	0
Providence.....	0	5	10	0	0	1	0	2	2	8	0
Connecticut:											
Bridgeport.....	0	4	4	0	0	0	0	1	2	1	0
Hartford.....	0	3	4	0	1	4	1	1	0	3	0
New Haven.....	0	2	0	0	0	8	0	3	1	3	0
MIDDLE ATLANTIC.											
New York:											
Buffalo.....	0	12	4	0	0	0	0	5	5	6	0
New York.....	26	127	122	4	3	62	16	84	31	39	0
Rochester.....		6	0	0	0	3		1	3	2	0
Syracuse.....	3	4	5	0	0	10	2	1	3	2	0
New Jersey:											
Camden.....	2	1	3	0	0	2	1	0	0	0	0
Newark.....	6	8	3	0	0	24	3	5	4	1	0
Trenton.....	1	3	0	0	0	1	0	4	0	0	0
Pennsylvania:											
Philadelphia.....	20	34	36		3	57	22	19	15	16	0
Pittsburgh.....	6	14	12	0	0	1	13	11	6	7	0
Reading.....	0	2	3	0	0	0	6	1	0	0	0
Scranton.....	0	2	1	0	0	1	0	0	1	0	0

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.
EAST NORTH CENTRAL.										
Ohio:										
Cincinnati.....	0	6	0	0	0	1	0	2	2	5
Cleveland.....	25	18	7	0	0	33	34	7	8	4
Columbus.....		2							2	
Toledo.....	7	4	3	0	1	6	0	1	6	0
Indiana:										
Fort Wayne.....		1	1	0	0	1		0	1	0
Indianapolis.....		6	5	0	0	3		5	2	2
South Bend.....	0	1	1	0	0	0	0	1	1	2
Terre Haute.....	0	0	0	0	0	0	0	0	1	0
Illinois:										
Chicago.....	36	72	28	0	0	58	26	20	25	26
Cicero.....	0	1	0	0	0	0	0	0	1	0
Peoria.....	0	1	0	0	0	0	0	2	1	0
Springfield.....		1	0	1	0	0		0	1	0
Michigan:										
Detroit.....	17	32	26	0	0	8	6	12	21	15
Flint.....		3							2	
Grand Rapids.....	2	3	2	0	0	3	0	0	1	5
Wisconsin:										
Madison.....	1	0	0	0	0	0	2	0	1	4
Milwaukee.....	21	9	8	0	0	16	9	0	11	0
Racine.....	3	0	2	0	0	1	0	0	2	0
Superior.....	0	1	0	0	0	0	0	1	1	0
WEST NORTH CENTRAL.										
Minnesota:										
Duluth.....	1	2	0	0	0	0	0	1	1	0
Minneapolis.....	11	10	13	0	0	2	1	2	6	11
St. Paul.....		11	7	0	0	0		2	3	7
Iowa:										
Des Moines.....	0	2	2	0		0	0		2	2
Sioux City.....	0	1	0	0		0	0		1	1
Waterloo.....	0	0	1	0		0	0		1	0
Missouri:										
Kansas City.....	0	3	1	2	2	0	2	3	2	7
St. Joseph.....	0	1	0	0	0	2	0	1	0	0
St. Louis.....	9	22	11	0	0	11	5		5	37
North Dakota:										
Fargo.....	0	0	0	0	0	0	0	0	1	0
Grand Forks.....	0	0	0	0	0	0	0	0	0	0
South Dakota:										
Aberdeen.....	0		0	0		0	0			1
Sioux Falls.....	0	1	0	0	0	0	0	1	0	0
Nebraska:										
Lincoln.....	0	1	2	0	0	0	0	0	0	0
Omaha.....	0	3	5	0	0	0	0	2	2	0
Kansas:										
Topeka.....	0	0	0	0	0	1	8	1	1	0
Wichita.....	0	1	2	0	0	0	0	1	1	1
SOUTH ATLANTIC.										
Delaware:										
Wilmington.....	0	1	2	0	0	0	0	0	1	0
Maryland:										
Baltimore.....	2	11	10	3	0	20	3	13	6	4
Cumberland.....		0	0	0	0	0		0	1	0
Frederick.....		1							0	
District of Colum- bia:										
Washington.....	2	3	5	0	0	1		9	3	7
Virginia:										
Lynchburg.....	0	0	0	0	0	1	3	0	0	0
Norfolk.....	0	0	0	0	0	0	5	0	0	0
Richmond.....	0	2	3	0	0	6	0	2	1	2
Roanoke.....	0	1	0	0	0	0	0	2	1	0
West Virginia:										
Charleston.....	0	1	0	0	0	5	0	0	0	0
Huntington.....	0	0	0	0	0	0	0	1	0	0
Wheeling.....	0	1	2	0	0	0	0	1	1	0
North Carolina:										
Raleigh.....	0	1	1	0	0	0	0	2	0	0
Wilmington.....	0	0	0	0	0	1	1	0	0	0
Winston-Salem.....	0	1	2	0	0	0	0	0	1	1

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Mea- sles, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.
SOUTH ATLANTIC— continued.										
South Carolina:										
Charleston.....	0	1	0	0	0	0	0	3	0	1
Columbia.....	0	1	1	0	0	0	0	0	0	0
Greenville.....	0	0	0	0	0	0	0	0	0	0
Georgia:										
Atlanta.....	-----	2	0	1	1	0	-----	3	2	3
Brunswick.....	0	0	0	0	0	0	2	0	0	0
Savannah.....	0	1	1	0	0	0	1	1	1	2
Florida:										
St. Petersburg..	0	0	0	0	0	0	0	0	0	0
Tampa.....	0	0	1	0	0	0	0	0	0	0
EAST SOUTH CEN- TRAL.										
Kentucky:										
Covington.....	1	1	0	0	0	0	0	0	0	0
Louisville.....	0	3	0	0	0	1	0	3	0	1
Tennessee:										
Memphis.....	0	3	1	0	0	0	0	3	1	0
Nashville.....	-----	1	1	0	1	0	0	0	1	0
Alabama:										
Birmingham....	1	1	0	1	0	0	4	5	2	0
Mobile.....	0	1	0	0	0	1	0	0	1	1
Montgomery....	0	1	1	0	0	1	0	1	0	0
WEST SOUTH CEN- TRAL.										
Arkansas:										
Fort Smith.....	1	1	0	0	-----	0	0	-----	1	1
Little Rock.....	0	0	1	0	0	1	0	0	0	0
Louisiana:										
New Orleans....	0	5	6	1	0	0	0	3	1	3
Shreveport.....	0	-----	2	0	0	0	0	2	-----	0
Oklahoma:										
Oklahoma.....	0	1	0	0	0	0	0	2	1	0
Texas:										
Dallas.....	1	3	1	0	0	2	0	1	2	2
Galveston.....	0	0	0	0	0	0	0	1	0	0
Houston.....	-----	2	2	0	0	0	-----	2	1	5
San Antonio....	0	0	0	0	0	0	0	2	1	0
MOUNTAIN.										
Montana:										
Billings.....	2	0	0	0	0	0	0	1	0	0
Great Falls....	1	1	0	0	0	1	0	0	0	2
Helena.....	0	1	0	0	0	0	0	0	0	0
Missoula.....	0	0	1	0	0	0	0	0	0	0
Idaho:										
Boise.....	2	1	0	0	0	0	0	0	0	0
Colorado:										
Denver.....	-----	7	-----	-----	-----	-----	-----	-----	3	-----
Pueblo.....	0	2	0	0	0	0	2	0	0	1
New Mexico:										
Albuquerque....	-----	1	0	0	0	0	-----	0	0	0
Utah:										
Salt Lake City..	12	2	2	0	0	5	1	0	1	2
Nevada:										
Reno.....	0	0	0	0	0	0	0	0	0	0
PACIFIC.										
Washington:										
Seattle.....	3	3	2	0	-----	0	2	-----	3	2
Spokane.....	3	1	0	0	-----	0	0	-----	2	3
Tacoma.....	-----	1	-----	-----	-----	-----	-----	-----	1	-----
Oregon:										
Portland.....	10	3	12	0	0	1	2	3	3	2
California:										
Los Angeles....	21	23	41	1	0	12	2	11	5	12
Sacramento....	1	1	7	0	0	1	0	0	1	1
San Francisco..	5	11	19	0	1	2	1	6	5	5

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Popula- tion July 1, 1923, estimated.	Smallpox.			Tubercu- losis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
NEW ENGLAND.										
Maine:										
Lewiston.....	33,790	0	0	0	0	1	3	0	0	14
Portland.....	73,129	0	0	0	0	1	0	1	4	21
New Hampshire:										
Concord.....	22,406	0	0	0	1	0	0	0	0	3
Manchester.....	81,383	0	0	0	2	0	0	0	0	13
Nashua.....	29,234	0	0	0	0	0	0	0	0	4
Vermont:										
Barre.....	110,008	0	0	0	0	0	0	0	0	1
Burlington.....	23,613	0	0	0	0	0	0	0	0	2
Massachusetts:										
Boston.....	770,400	0	0	0	20	4	0	0	17	158
Fall River.....	120,912	0	0	0	1	2	0	0	13	18
Springfield.....	144,227	0	0	0	2	1	0	0	3	25
Worcester.....	191,927	0	0	0	2	0	0	0	3	29
Rhode Island:										
Pawtucket.....	68,799	0	0	0	1	0	0	0	0	17
Providence.....	242,378	0	0	0	3	1	0	0	1	57
Connecticut:										
Bridgeport.....	1143,555	0	0	0	0	0	1	1	2	23
Hartford.....	1138,036	0	0	0	1	1	1	0	1	30
New Haven.....	172,967	0	0	0	2	2	2	0	6	34
MIDDLE ATLANTIC.										
New York:										
Buffalo.....	536,718	0	0	0	16	2	0	0	12	99
New York.....	5,927,625	0	0	0	92	28	42	8	244	1,061
Rochester.....	317,867	0	0	0	3	1	0	0	0	41
Syracuse.....	184,511	0	0	0	2	1	0	0	7	38
New Jersey:										
Camden.....	124,157	0	2	1	6	2	1	0	8	36
Newark.....	438,699	0	0	0	5	1	1	0	92	61
Trenton.....	127,390	0	0	0	1	1	1	0	7	38
Pennsylvania:										
Philadelphia.....	1,922,788	0	0	0	25	11	11	0	150	388
Pittsburgh.....	613,442	0	7	1	12	4	3	0	19	125
Reading.....	110,917	0	0	0	1	2	0	0	21	30
Scranton.....	140,636	0	0	0	0	0	1	0	4	---
EAST NORTH CENTRAL.										
Ohio:										
Cincinnati.....	406,312	1	8	0	13	2	3	0	5	94
Cleveland.....	888,519	2	0	0	11	4	0	1	68	140
Columbus.....	261,082	1	---	---	---	2	---	---	---	---
Toledo.....	268,338	1	2	1	8	2	1	0	24	60
Indiana:										
Fort Wayne.....	93,573	0	0	0	1	0	0	0	---	14
Indianapolis.....	342,718	1	8	0	6	3	3	0	---	80
South Bend.....	76,709	1	0	0	2	0	0	0	0	24
Terre Haute.....	68,939	0	0	0	2	0	0	0	0	12
Illinois:										
Chicago.....	2,886,121	1	0	0	43	4	8	0	104	507
Cicero.....	55,968	0	0	0	0	0	0	0	1	3
Peoria.....	79,675	0	0	0	2	1	0	0	2	18
Springfield.....	61,833	1	0	0	0	1	3	0	---	16
Michigan:										
Detroit.....	995,668	3	6	2	37	6	0	0	99	213
Flint.....	117,968	1	---	---	---	1	---	---	---	---
Grand Rapids.....	145,947	0	1	0	0	1	0	0	4	22
Wisconsin:										
Madison.....	42,519	0	0	0	0	0	1	1	16	6
Milwaukee.....	484,595	2	0	0	4	1	1	0	27	68
Racine.....	64,393	0	1	0	2	0	0	0	0	9
Superior.....	139,671	1	1	0	0	0	0	0	0	4

¹ Population Jan. 1, 1920.

* Pulmonary only.

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Popula- tion July 1, 1923, estimated.	Smallpox.			Tuberculosis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
WEST NORTH CENTRAL.										
Minnesota:										
Duluth.....	106,289	1	1	0	0	0	0	0	15	17
Minneapolis.....	409,125	3	3	0	10	2	0	1	0	75
St. Paul.....	241,891	2	7	1	6	1	2	0	0	43
Iowa:										
Des Moines.....	140,923	1	0	0	0	0	0	0	0	0
Sioux City.....	79,662	1	0	0	0	0	0	0	0	0
Waterloo.....	39,667	0	0	0	0	0	0	0	0	0
Missouri:										
Kansas City.....	351,819	1	0	0	8	3	1	1	16	87
St. Joseph.....	78,232	0	0	0	1	1	0	0	0	28
St. Louis.....	803,853	1	0	0	9	8	6	2	11	167
North Dakota:										
Fargo.....	24,841	1	0	0	0	0	0	0	0	8
Grand Forks.....	14,547	0	0	0	0	0	0	0	0	0
South Dakota:										
Aberdeen.....	15,829	0	0	0	0	0	0	0	3	0
Sioux Falls.....	29,206	0	0	0	0	0	0	0	0	6
Nebraska:										
Lincoln.....	58,761	1	0	0	0	0	0	0	0	9
Omaha.....	204,382	1	5	0	4	0	0	0	1	43
Kansas:										
Topeka.....	52,555	0	0	0	1	0	0	0	3	7
Wichita.....	79,261	1	2	0	1	3	0	0	3	36
SOUTH ATLANTIC.										
Delaware:										
Wilmington.....	117,728	0	0	0	4	0	2	0	2	23
Maryland:										
Baltimore.....	773,580	0	0	0	17	11	2	0	52	201
Cumberland.....	32,361	0	0	0	0	1	0	0	0	6
Frederick.....	11,301	0	0	0	0	1	0	0	0	0
District of Columbia:										
Washington.....	1437,571	1	0	0	8	6	5	0	22	112
Virginia:										
Lynchburg.....	30,277	0	0	0	0	1	0	0	1	5
Norfolk.....	159,089	0	0	0	0	3	4	1	0	0
Richmond.....	181,044	0	0	0	3	3	5	0	13	57
Roanoke.....	55,502	0	1	0	0	2	0	0	2	18
West Virginia:										
Charleston.....	45,597	1	0	0	1	2	1	0	2	9
Huntington.....	57,913	0	0	0	0	2	0	0	0	23
Wheeling.....	56,208	0	0	0	2	1	0	0	0	17
North Carolina:										
Raleigh.....	29,171	0	0	0	1	1	1	0	2	15
Wilmington.....	35,719	0	0	0	0	1	1	0	0	6
Winston-Salem.....	56,290	0	1	0	5	2	2	0	10	24
South Carolina:										
Charleston.....	71,245	1	0	0	2	2	0	0	0	28
Columbia.....	39,688	0	0	0	0	1	2	0	3	0
Greenville.....	25,789	0	0	0	1	1	1	0	2	9
Georgia:										
Atlanta.....	222,963	2	1	0	6	2	3	4	67	2
Brunswick.....	15,937	0	0	0	0	0	0	0	0	0
Savannah.....	89,448	0	0	0	4	2	1	0	0	27
Florida:										
St. Petersburg.....	24,403	0	0	0	0	0	1	0	0	6
Tampa.....	56,050	0	0	0	0	0	0	0	0	14
EAST SOUTH CENTRAL.										
Kentucky:										
Covington.....	57,877	0	0	0	2	1	0	1	0	23
Louisville.....	257,671	0	1	1	5	6	3	0	0	65

¹ Population Jan. 1, 1920.

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Popula- tion, July 1, 1922, estimated.	Smallpox.			Tubercu- losis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
EAST SOUTH CENTRAL—continued.										
Tennessee:										
Memphis.....	170,067	0	0	0	7	4	14	3	3	76
Nashville.....	121,128	0	2	0	2	6	6	1		50
Alabama:										
Birmingham.....	195,991	0	13	0	3	4	11	0	2	64
Mobile.....	63,858	0	0	0	3	1	0	0	0	9
Montgomery.....	45,383	0	0	0	0	1	2	1	0	
WEST SOUTH CENTRAL.										
Arkansas:										
Fort Smith.....	30,635	0	0			1	0		9	
Little Rock.....	70,916	0	0	0	2	1	3	1	1	
Louisiana:										
New Orleans.....	404,575	1	0	0	6	4	5	2	1	121
Shreveport.....	54,590		1	0	3		1	0	0	32
Oklahoma:										
Oklahoma.....	101,150	1	1	0	0	2	1	0	0	21
Texas:										
Dallas.....	177,274	1	0	0	2	4	4	1	3	32
Galveston.....	46,877	0	0	0	1	1	2	0	0	8
Houston.....	154,970	0	1	0	3	1	2	0		35
San Antonio.....	184,727	1	0	0	5	0	0	0	0	41
MOUNTAIN.										
Montana:										
Billings.....	16,927	0	0	0	0	1	0	0	0	4
Great Falls.....	27,787	1	0	0	0	1	0	0	0	6
Helena.....	12,037	0	0	0	0	0	0	0	0	1
Missoula.....	12,668	0	0	0	0	0	1	0	0	8
Idaho:										
Boise.....	22,806	0	2	0	0	0	0	0	0	2
Colorado:										
Denver.....	272,031	2				3				
Pueblo.....	43,519	0	0	0	0	1	1	0	0	7
New Mexico:										
Albuquerque.....	16,648	0	0	0	1	0	0	0		9
Utah:										
Salt Lake City.....	126,241	2	0	0	2	1	2	0	1	30
Nevada:										
Reno.....	12,429	0	0	0	0	1	0	0	0	3
PACIFIC.										
Washington:										
Seattle.....	1,315,685	2	0			1	3		0	
Spokane.....	104,573	3	3			0	0		1	
Tacoma.....	101,731	1				0				
Oregon:										
Portland.....	273,621	3	8	0	1	1	1	0	1	
California:										
Los Angeles.....	666,853	1	32	0	26	4	3	1	24	176
Sacramento.....	69,950	0	0	0	0	1	1	0	0	21
San Francisco.....	539,038	1	0	0	9	2	3	0	1	142

1 Population Jan. 1, 1920.

City reports for week ended August 2, 1924—Continued.

Division, State, and city.	Cerebro-spinal meningitis.		Lethargic encephalitis.		Pellagra.		Polio-myelitis (infantile paralysis).			Typhus fever.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, est. expectancy.	Cases.	Deaths.	Cases.	Deaths.
NEW ENGLAND.											
Massachusetts:											
Boston.....	0	0	0	0	2	0	1	2	0	0	0
Worcester.....	0	0	0	0	0	0	0	1	0	0	0
Rhode Island:											
Providence.....	0	0	0	0	0	0	0	1	0	0	0
Connecticut:											
Hartford.....	0	0	1	1	0	0	0	2	0	0	0
MIDDLE ATLANTIC.											
New York:											
New York.....	4	1	7	6	0	0	7	5	1	1	0
Syracuse.....	0	0	0	0	0	0	1	15	2	0	0
Pennsylvania:											
Philadelphia.....	0	0	0	0	1	1	0	0	0	0	0
EAST NORTH CENTRAL.											
Illinois:											
Chicago.....	0	0	0	0	0	0	4	2	0	0	0
Michigan:											
Detroit.....	0	0	0	0	0	0	1	5	0	0	0
Wisconsin:											
Milwaukee.....	1	1	0	0	0	0	1	0	0	0	0
WEST NORTH CENTRAL.											
Minnesota:											
Minneapolis.....	2	0	0	0	0	0	1	0	0	0	0
St. Paul.....	0	0	0	0	0	0	0	1	0	0	0
Missouri:											
St. Louis.....	0	0	0	0	0	0	1	1	0	0	0
SOUTH ATLANTIC.											
Delaware:											
Wilmington.....	1	0	0	0	0	0	0	0	0	0	0
Maryland:											
Baltimore.....	0	0	0	0	0	0	1	6	0	0	0
North Carolina:											
Winston-Salem.....	0	0	0	0	1	0	0	1	0	0	0
South Carolina:											
Charleston.....	0	0	0	0	0	1	0	0	0	0	0
Columbia.....	1	0	0	0	0	0	0	0	0	0	0
Georgia:											
Atlanta.....	0	1	0	0	0	0	0	0	0	0	0
Savannah.....	0	0	0	0	2	0	0	0	0	0	0
EAST SOUTH CENTRAL.											
Kentucky:											
Louisville.....	1	1	0	0	0	0	0	0	0	0	0
Alabama:											
Birmingham.....	0	0	1	0	0	0	1	0	0	0	0
Mobile.....	0	0	0	0	0	0	0	1	0	0	0
WEST SOUTH CENTRAL.											
Arkansas:											
Little Rock.....	0	0	0	0	0	2	0	0	0	0	0
Louisiana:											
New Orleans.....	0	0	0	0	1	1	0	0	0	0	0
MOUNTAIN.											
Montana:											
Missoula.....	0	0	0	0	0	0	0	1	1	0	0
PACIFIC.											
Oregon:											
Portland.....	0	0	0	0	0	1	0	0	0	0	0
California:											
Los Angeles.....	2	0	0	0	0	0	0	0	0	0	0
San Francisco.....	1	0	1	1	0	0	1	0	0	0	0

The following table gives a summary of the reports from 105 cities for the 10-week period ended August 2, 1924. The cities included in this table are those whose reports have been published for all

10 weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923, which is the latest date for which estimates are available. The cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

Summary of weekly reports from cities, May 25 to August 2, 1924.

DIPHTHERIA CASES.

	1924, week ended—									
	May 31.	June 7.	June 14.	June 21.	June 28.	July 5.	July 12.	July 19.	July 26.	Aug. 2.
Total.....	868	919	911	885	891	666	603	652	560	484
New England.....	85	90	73	97	78	64	55	71	59	47
Middle Atlantic.....	371	387	405	368	387	296	301	274	222	188
East North Central.....	129	150	157	135	136	101	135	120	99	182
West North Central.....	80	76	55	65	36	50	52	36	37	40
South Atlantic.....	33	41	35	31	20	17	19	26	21	28
East South Central.....	4	8	6	4	8	1	3	2	6	3
West South Central.....	18	18	17	16	15	19	5	5	15	12
Mountain.....	14	37	15	30	30	19	36	25	14	13
Pacific.....	134	112	148	139	181	99	87	93	87	71

MEASLES CASES.

Total.....	2,942	3,240	2,847	2,302	1,857	1,186	987	676	528	408
New England.....	227	247	175	168	120	90	66	52	59	41
Middle Atlantic.....	1,231	1,483	1,287	1,051	774	535	422	283	204	160
East North Central.....	732	747	756	568	565	288	295	202	155	127
West North Central.....	124	130	97	87	63	46	29	35	22	16
South Atlantic.....	344	317	317	220	187	141	91	55	43	34
East South Central.....	47	36	32	26	19	15	15	13	6	3
West South Central.....	28	19	11	2	5	1	7	3	5	3
Mountain.....	70	50	20	33	35	22	11	7	6	8
Pacific.....	139	211	152	147	89	48	51	26	28	16

SCARLET FEVER CASES.

Total.....	1,208	1,243	1,067	973	713	563	561	441	340	331
New England.....	168	181	143	111	92	59	50	39	38	40
Middle Atlantic.....	380	401	335	331	226	186	144	114	90	73
East North Central.....	254	243	252	238	161	132	168	102	90	187
West North Central.....	167	182	160	128	102	68	100	93	65	64
South Atlantic.....	112	120	91	63	43	30	47	33	15	20
East South Central.....	8	11	6	6	1	1	7	7	7	2
West South Central.....	11	11	12	9	7	11	8	5	9	11
Mountain.....	17	17	3	13	12	16	4	14	5	9
Pacific.....	91	77	65	74	69	60	33	34	21	25

SMALLPOX CASES.

Total.....	327	472	334	346	239	159	169	158	108	116
New England.....	0	0	0	0	0	0	1	0	0	0
Middle Atlantic.....	1	8	7	10	16	19	16	17	9	9
East North Central.....	145	174	157	121	61	44	33	44	36	128
West North Central.....	19	40	33	34	41	23	47	33	13	18
South Atlantic.....	29	39	44	35	12	9	3	5	3	3
East South Central.....	36	107	22	65	36	23	21	18	13	16
West South Central.....	7	5	7	8	7	1	1	0	0	2
Mountain.....	7	2	6	10	9	5	6	4	2	2
Pacific.....	83	97	58	63	57	35	41	37	32	38

¹ Figures for Columbus, Ohio, and Flint, Mich., estimated. Reports not received at time of going to press.

² Figures for Frederick, Md., estimated.

³ Figures for Wilmington, Del., estimated.

⁴ Figures for Denver, Colo., estimated.

Summary of weekly reports from cities, May 25 to August 2, 1924—Continued.

TYPHOID FEVER CASES.

	1924, week ended—									
	May 31.	June 7.	June 14.	June 21.	June 28.	July 5.	July 12.	July 19.	July 26.	Aug. 2.
Total.....	78	92	107	132	91	128	142	197	191	193
New England.....	9	3	7	8	4	2	6	7	6	4
Middle Atlantic.....	18	30	46	58	41	46	34	50	59	59
East North Central.....	6	11	9	11	11	9	20	20	17	120
West North Central.....	5	8	5	4	5	15	12	10	11	9
South Atlantic.....	13	12	10	16	10	23	25	36	25	32
East South Central.....	11	7	8	13	3	8	10	31	29	36
West South Central.....	10	13	13	8	4	8	21	26	22	17
Mountain.....	1	0	0	4	3	6	5	4	7	59
Pacific.....	5	8	9	10	10	11	9	13	15	11

INFLUENZA DEATHS.

	30	21	15	22	13	9	11	5	3	13
Total.....	30	21	15	22	13	9	11	5	3	13
New England.....	1	1	1	0	1	1	0	0	1	2
Middle Atlantic.....	10	5	6	8	3	2	5	1	0	6
East North Central.....	10	3	2	2	3	2	1	1	0	10
West North Central.....	1	2	2	1	0	0	0	1	1	2
South Atlantic.....	5	3	1	5	4	3	2	1	1	1
East South Central.....	1	2	3	3	2	1	3	0	0	1
West South Central.....	1	2	0	3	0	0	0	0	0	0
Mountain.....	0	0	0	0	0	0	0	0	0	0
Pacific.....	1	3	0	0	0	0	0	1	0	1

PNEUMONIA DEATHS.

	630	590	573	521	432	358	318	307	304	295
Total.....	630	590	573	521	432	358	318	307	304	295
New England.....	34	37	46	28	22	19	16	14	16	17
Middle Atlantic.....	267	276	250	214	200	167	141	127	126	131
East North Central.....	131	118	108	130	91	62	55	53	58	52
West North Central.....	40	22	40	34	11	15	22	17	13	14
South Atlantic.....	60	66	51	50	50	39	39	37	35	37
East South Central.....	40	18	20	12	15	14	9	12	15	12
West South Central.....	14	18	27	24	12	16	16	22	20	11
Mountain.....	18	14	15	9	12	8	10	4	7	4
Pacific.....	26	21	16	20	19	18	10	21	14	17

¹ Figures for Columbus, Ohio, and Flint Mich., estimated. Reports not received at time of going to press.

² Figures for Wilmington, Del., estimated.

³ Figures for Frederick, Md., estimated.

⁴ Figures for Denver, Colo., estimated.

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

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

FOREIGN AND INSULAR.

BRAZIL.

Leprosy—Para.

During the week ended July 13, 1924, a death from leprosy was reported at Para, Brazil.

CANADA.

Communicable Diseases—Ontario—July, 1924 (Comparative).

Communicable diseases were reported in the Province of Ontario, Canada, during the month of July, 1924, as follows:

Disease.	July, 1924.		July, 1923.	
	Cases.	Deaths.	Cases.	Deaths.
Cerebrospinal meningitis.....	2	1	5	3
Chancroid.....			1	
Chicken pox.....	179		(¹) 1	
Diphtheria.....	220	12	225	24
German measles.....	28		(¹)	
Gonorrhoea.....	124		127	
Influenza.....		2		7
Lethargic encephalitis.....	1	1	(¹)	
Measles.....	1,045	8	1,412	11
Mumps.....	141	1	(¹)	
Pneumonia.....		68		47
Scarlet fever.....	267	3	243	4
Smallpox.....	7		14	
Syphilis.....	45		87	
Tuberculosis.....	137	60	188	108
Typhoid fever.....	77	4	58	8
Whooping cough.....	109	4	208	20

¹ Not reported in 1923.

² Only 40 per cent stated to be reported.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana, Cuba, as follows:

Disease.	July 21-31, 1924.		Remain- ing under treatment July 31, 1924.
	New cases.	Deaths.	
Diphtheria.....	6		5
Leprosy.....			15
Malaria.....	22		131
Measles.....	3		5
Paratyphoid fever.....	1		4
Scarlet fever.....			2
Typhoid fever.....	69	17	276

¹ From the interior, 9

² From the interior, 35.

Status of Typhoid Fever.

Under date of August 2, 1924, the occurrence of new cases of typhoid fever at Habana was stated to be apparently diminishing slowly.

EGYPT.**Status of Plague.**

Plague has been reported in Egypt as follows: Week ended July 8, 1924—three cases, one case occurring in the city of Ismailia and the remaining two cases in two districts. Week ended July 15, 1924—five cases, occurring in two districts. From January 1 to July 15, 1924, 328 cases of plague were reported in Egypt, as compared with 1,190 cases notified during the corresponding period of the preceding year.

FINLAND.**Communicable Diseases—June 16–30, 1924.**

During the period June 16 to 30, 1924, communicable diseases were reported in Finland as follows:

Disease.	Cases.	Disease.	Cases.
Diphtheria.....	32	Poliomyelitis.....	1
Lethargic encephalitis.....	1	Scarlet fever.....	52
Paratyphoid fever.....	8	Typhoid fever.....	12

HAWAII.**Plague-Infected Rat—Hamakua Coast.**

A plague-infected rat was found July 15, 1924, near Kukuihaele, on the Hamakua coast of the island of Hawaii.

ITALY.**Kala-azar—Malta Fever—Catania, City and Province.**

During the week ended July 13, 1924, a case of kala-azar was reported in the Province of Catania, Italy. During the week ended July 20, 1924, a case of Malta fever was reported at the city of Catania.

PALESTINE.**Relapsing Fever—Tiberias.**

During the week ended June 30, 1924, a case of relapsing fever was reported at Tiberias, Palestine.

PARAGUAY.**Smallpox—Hookworm Campaign.**

Reports have been received, under date of June 2, 1924, stating that many cases of smallpox have occurred in the region of Encarnacion, in the south of Paraguay, and that several cases of this disease have appeared in Asuncion.

A hookworm campaign is being conducted by the International Health Board.

POLAND.**Communicable Diseases—May 4-17, 1924.**

During the period May 4 to 17, 1924, communicable diseases were reported in Poland as follows:

MAY 4-10, 1924.

Disease.	Cases.	Deaths.	Districts showing greatest number of deaths.
Cerebrospinal meningitis.....	16	4	Warsaw.
Diphtheria.....	120	7	Kielce.
Measles.....	185	11	Warsaw.
Scarlet fever.....	220	15	Do.
Smallpox.....	14	4	Krakow.
Typhoid fever.....	173	18	Lwow.
Typhus fever.....	262	27	Kielce.
Typhus fever, recurrent.....	5	-----	-----
Whooping cough.....	45	5	Krakow.

MAY 11-17, 1924.

Cerebrospinal meningitis.....	13	2	Silesia.
Diphtheria.....	83	3	Lwow.
Measles.....	169	5	Do.
Scarlet fever.....	175	8	Lodz.
Smallpox.....	12	4	Krakow.
Typhoid fever.....	151	17	Kielce.
Typhus fever.....	275	24	Tarnopol.
Typhus fever, recurrent.....	4	-----	-----
Whooping cough.....	39	3	Lodz.

Dysentery—Malaria.

During the period under report, 36 cases of dysentery with 3 deaths, and 144 cases of malaria with 2 deaths, were reported in Poland.

SYRIA.**Plague—Beirut.**

Plague was reported present at Beirut, Syria, August 4, 1924.

UNION OF SOUTH AFRICA.**Plague-Infected Rodent—Orange Free State.**

The finding of a plague-infected rodent in the Orange Free State, Union of South Africa, was reported during the week ended June 28, 1924. The rodent was found in the Bothaville area of the Kroonstad district.

VENEZUELA.**Typhoid Fever—Puerto Cabello.**

Under date of July 17, 1924, typhoid fever was stated to be present at Puerto Cabello, Venezuela, with 1 death registered. The number of cases was not reported.

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

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

Reports Received During Week Ended August 22, 1924.¹**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India				May 25-June 7, 1924: Cases, 13,228; deaths, 9,350.
Calcutta	June 15-28	128	115	
Rangoon	June 29-July 5	6	5	
Philippine Islands				Reported during week ended July 5, 1924: Cases, 4; deaths, 4.
Batangas	July 1	2	2	Four cases previously reported "suspect" declared positive.
Bulacan	June 21	1	1	
Rizal	July 3	1	1	
Siam:				
Bangkok	June 15-21	2	2	
Straits Settlements:				
Singapore	June 22-28	4	2	

PLAGUE.

Ceylon:				
Colombo	June 29-July 5	1	1	
China:				
Amoy	July 6-12		3	
Egypt				July 2-15, 1924: Cases, 8. Total, Jan. 1-July 15, 1924—cases, 328 (corresponding period, preceding year—cases, 1,190).
Hawaii:				
Hamakua coast				Near Kukuihaele, Island of Hawaii: One plague rat.
India				May 25-June 7, 1924: Cases, 16,533; deaths, 14,131.
Bombay	June 15-21	2	1	
Rangoon	June 29-July 5	20	19	
Iraq:				
Bagdad	June 15-21	3	1	
Java:				
East Java—				
Soerabaya	June 8-14	10	10	
Madagascar:				
Tananarive Province				May 16-31, 1924: Cases, 11; deaths, 9. Bubonic, pneumonic, septicemic.
Tamatave	June 2-8		2	Bubonic.
Tananarive	May 16-31	2	2	Bubonic, 1; pneumonic, 1.
Other localities	do	9	7	Bubonic, 6; septicemic, 3.
Syria:				
Beirut	Aug. 4			Present.
Union of South Africa:				
Orange Free State				June 22-28, 1924: Plague-infected mouse found in the Bothaville area, Kroonstad district.

SMALLPOX.

Canada:				
Manitoba—				
Winnipeg	July 26-Aug. 1	1		
Ontario				July 1-31, 1924: Cases, 7.
China:				
Amoy	July 6-12			Present.
Antung	June 23-29	7		
Manchuria—				
Dairen	June 15-29	2		
Tientsin	June 22-28	1		Reported by mission hospitals and British concessions.
Gibraltar	July 21-27	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 During Week Ended August 22, 1924—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain: England and Wales.....				July 20-26, 1924: Cases, 52.
Counties—				
Derby.....	July 20-26.....	13		
Northumberland.....	do.....	19		
Nottingham.....	do.....	6		
Yorks (North Rid- ing).....	do.....	3		
Yorks (West Rid- ing).....	do.....	9		
India.....				May 25-June 7, 1924: Cases, 5,131; deaths, 1,226.
Bombay.....	June 15-21.....	44	32	
Calcutta.....	June 15-28.....	21	17	
Rangoon.....	June 29-July 5.....	8	3	
Japan: Tokyo.....	June 8-14.....	1		
Java:				
East Java—				
Malang.....	May 25-31.....	5	1	Not a seaport.
Soernbaya.....	June 1-7.....	47	18	
West Java—				
Batavia.....	June 21-27.....	1		In Province.
Mexico: Tuxtepec.....	July 3-18.....	3	1	State of Oaxaca.
Paraguay: Asuncion.....	June 2.....			Present.
Encarnacion.....	do.....			Many cases reported.
Poland.....				May 4-17, 1924: Cases, 26; deaths, 8.
Portugal: Lisbon.....	June 23-20.....		1	
Do.....	July 7-19.....	2	1	
Tunis: Tunis.....	July 15-21.....	1		

TYPHUS FEVER.

Chile:				
Concepcion.....	July 8-14.....		2	
Talcahuano.....	June 29-July 12.....	3	1	July 12, 5 cases present.
Great Britain:				
Ireland—				
Dublin.....	July 13-19.....	1		
Lismore.....	July 19.....	1		
Longford.....	do.....	1		
Palestine:				
Jaffa.....	July 8.....	1		
Poland.....				May 4-17, 1924: Cases, 537; deaths, 51
Spain:				
Barcelona.....	July 10-16.....		1	
Union of South Africa:				
Orange Free State.....				June 22-28, 1924: Outbreaks.

Reports Received from June 28 to August 15, 1924.¹**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				
Bombay.....	May 4-10.....	1		Apr. 20-May 24, 1924: Cases, 45,434; deaths, 33,431.
Calcutta.....	May 11-June 7.....	137	116	
Madras.....	June 1-21.....	7	6	
Do.....	June 29-July 5.....	1		
Rangoon.....	May 11-June 28.....	98	76	
Indo-China:				
Saigon.....	Apr. 27-June 28.....	6	4	Including 100 square kilometers of surrounding country.

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 June 28 to August 15, 1924—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands.....				Week ended June 21, 1924: 18 cases and 11 deaths, including suspects, occurring in 6 Provinces. Week ended June 28, 1924: 14 cases and 11 deaths, including suspects, occurring in 8 Provinces.
Manila.....	June 22-28.....	1		Suspect. Occurring in a non-resident.
Province—				
Cagayan.....	Mar. 30-Apr. 5.....	1	1	
Laguna.....	May 18-24.....	1	1	
Siam:				
Bangkok.....	May 4-June 14.....	18	15	
Straits Settlements:				
Singapore.....	June 15-21.....	5	4	
On vessel:				
S. S. Argalia.....		1		At Bassein, Lower Burma, India. Case in European member of crew. Case removed to hospital. Vessel left May 16, 1924; arrived June 8 at Durban, South Africa; left Durban June 10 for Trinidad and Cuba.

PLAGUE.

Argentina:				April, 1924: Cases reported.
Chaco Territory.....				
British East Africa:				
Kenya—				
Tanganyika Territory..	Feb. 24-June 7....	1	2	
Canary Islands:				
Teneriffe—				
La Laguna.....	June 20.....	1		
Ceylon:				
Colombo.....	May 11-June 28....	11	7	Ten plague rodents.
Chile:				
Antofagasta.....	June 1-16.....	4		
China:				
Amoy.....	June 15-28.....		3	
Do.....	June 29-July 5.....		4	
Foochow.....	May 4-June 21.....		25	Cases not reported.
Ecuador:				
Eloy Alfaro.....	May 16-31.....	1		
Guayaquil.....	May 16-June 15....	2		Rats taken, 14,987; found infected, 88.
Egypt.....				June 11-July 1, 1924: Cases, 36.
City—				Jan. 1-July 1, 1924: Cases, 320 (corresponding period, preceding year, 1,110 cases).
Alexandria.....	Apr. 2.....	1	1	
Port Said.....	Apr. 24-May 31....	2	1	
Suez.....	Jan. 2-June 26....	11	5	
Do.....	June 27-July 5.....	2		
Province—				
Assiout.....	Apr. 1-June 18....	40	31	
Beni-Suef.....	June 21.....	3	3	
Charkieh.....	Jan. 31.....	1	1	
Fayoum.....	Feb. 18-June 19....	105	32	
Gharbia.....	Apr. 21-June 17....	2	1	
Ghirga.....	Jan. 17-May 13....	10	3	
Kalioubieh.....	Jan. 6-May 22.....	10	1	
Kena.....	Apr. 9-May 17.....	44	26	
Menoufieh.....	Jan. 2-June 12....	48	31	
Minia.....	Feb. 5-June 26....	39	20	
Greece:				
Kalamata.....				Reported July 15, 1924: Cases, 29; deaths, 6.
Patras.....	July 7.....	36		
Saloniki.....	July 3-4.....	2		
India.....				Apr. 20-May 24, 1924: Cases, 74,793; deaths, 60,790.
Bombay.....	May 4-June 14.....	48	43	
Calcutta.....	May 11-June 14....	10	10	
Karachi.....	May 18-June 21....	16	13	
Madras Presidency.....	May 18-31.....	7	2	
Rangoon.....	May 11-June 28....	77	72	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from June 28 to August 15, 1924—Continued.****PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Saigon.....	May 4-June 28....	10	2	Including 100 square kilometers of surrounding country.
Iraq:				
Bagdad.....	Apr. 20-June 14....	118	59	
Japan:				
Shizuoka Prefecture— Higashi.....				To June 20, 1924: Cases, 2; death, 1.
Madagascar:				
Tananarive Province.....				Apr. 1-30, 1924: Cases, 105; deaths, 99.
Tananarive Town.....	Apr. 1-30.....	9	9	
Other localities.....	do.....	96	90	
Persia:				
Abadan.....	May 1-31.....	20	12	
Bander Abbas.....	do.....	11	6	
Bushire.....	do.....	1	1	Landed at quarantine.
Mohammerah.....	do.....	111	78	
Peru:				
Lima (city).....	May 1-31.....	3	4	May 1-31, 1924: Cases, 5; deaths, 5.
Lima (country).....	do.....	1		
Mollendo.....	do.....	1	1	
Siam:				
Bangkok.....	May 4-June 14....	3	3	
Union of South Africa.....				Apr. 27-June 7, 1924: Cases, 28; deaths, 14. Dec. 16, 1923, to May 31, 1924: Cases, 347; deaths, 208 (white, 51 cases, 26 deaths; native, 296 cases, 182 deaths).
Orange Free State.....				May 11-June 14, 1924: Cases, 19; deaths, 7.
On vessel:				
S. S. Amboise.....	July 10.....	1		At Marseille, France; removed to quarantine station. Case occurred in an Arab fireman embarked at Aden. Vessel left Yokohama May 30 and Colombo, Ceylon, June 22, 1924.

SMALLPOX.

Bolivia:				
La Paz.....	May 1-31.....	2	4	
Brazil:				
Bahia.....	May 18-24.....	1		
Porto Alegre.....	May 18-June 28....	1	2	
Rio de Janeiro.....	May 18-24.....	2		
British East Africa:				
Kenya—				
Mombasa.....	May 4-31.....	3		
British South Africa:				
Northern Rhodesia.....	May 6-June 16....	61	1	Natives.
Canada:				
British Columbia—				
Vancouver.....	June 15-28.....	11		
Do.....	June 29-July 26....	18		Not including suburbs.
Manitoba—				
Winnipeg.....	July 13-25.....	2		
New Brunswick—				
Restigouche County.....	June 1-30.....	7		
Do.....	July 6-26.....	16		
Ontario.....				June 1-30, 1924: Cases, 24.
Sarnia.....	July 20-26.....	1		
Windsor.....	June 22-28.....	1		
Quebec—				
Montreal.....	June 8-14.....	1		
Chile:				
Antofagasta.....	June 11.....	2		Under treatment at Lazaretto, 2 cases.
Valparaiso.....	June 1-7.....		1	This report covers the two principal districts of Valparaiso.
China:				
Amoy.....	May 11-June 28....			Present.
Do.....	June 29-July, 5....			Do.

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

Reports Received from June 28 to August 15, 1924—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China—Continued.				
Antung	June 9-22	34	3	Present. Do. Do.
Chungking	May 11-June 28			
Do.	June 29-July 5			
Foochow	May 18-June 21			
Hongkong	May 4-June 28	30	24	Do. Do.
Manchuria—				
Dairen	May 12-June 1	20	7	
Harbin	May 13-June 23	2		
Nanking	May 18-June 28			Do. Do.
Do.	July 6-19			
Shanghai	May 25-31		1	British municipality.
Tientsin	May 4-June 14	10	1	
Chosen:				
Fusan	May 1-31	1		
Denmark	May 18-31	3	1	
Copenhagen	May 18-31	3	1	
Egypt:				
City—				
Alexandria	June 4-10	1		
Cairo	Feb. 19-Apr. 22	46	9	
Port Said	June 18-24	1	2	
Do	June 25-July 8	3		
France.				
Limoges	Apr. 1-May 31		2	
Marseille	May 1-31		1	
Paris	May 21-31	2		
Great Britain:				
England and Wales				May 25-June 28, 1924: Cases, 342.
Counties—				June 29-July 19, 1924: Cases, 161.
Derby	May 25-June 28	159		
Do.	June 29-July 19	53		
London	do.	1		
Northumberland	May 25-June 28	61		
Do.	June 29-July 19	20		
Nottingham	May 25-June 28	29		
Do.	June 29-July 19	26		
Yorks (North Rid- ing).	May 25-June 28	54		
Do.	June 29-July 19	24		
Yorks (West Rid- ing).	May 25-June 28	5		
Do.	June 29-July 19	18		
Greece:				
Saloniki	Apr. 21-May 4	7	2	
Haiti:				
Port au Prince	July 6-12	2		Developed at Cape Haitien.
India.				Apr. 20-May 24, 1924: Cases, 17,069; deaths, 3,893.
Bombay	May 4-June 14	339	229	
Calcutta	May 11-June 14	15	15	
Karachi	May 18-June 28	51	18	
Do.	June 29-July 5	1	2	
Madras	May 18-June 28	32	10	
Do.	June 29-July 5	7		
Rangoon	May 11-June 28	53	21	
Indo-China:				
Saigon	Apr. 27-June 28	145	79	Including 100 sq. km. of sur- rounding country.
Iraq:				
Bagdad	Apr. 20-May 24	8	1	
Italy:				
Messina	May 26-June 1	1		
Jamaica				June 1-28, 1924: Cases, 141. June 29-July 19, 1924: Cases, 105. (Reported as alastrim.)
Kingston	June 1-28	6		Reported as alastrim.
Do.	June 29-July 19	7		Do.
Japan:				
Kobe	May 26-June 21	3		
Nagoya	June 8-14	2		
Java:				
East Java—				
Soerabaya	Apr. 13-May 31	333	88	
Madoera Residency—				
Sampang	May 22			Epidemic.
West Java—				
Batavia	May 31-June 20	2		

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

Reports Received from June 28 to August 15, 1924—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Latvia.....				Apr. 1-May 31, 1924: Cases, 2.
Mexico:				
Guadalajara.....	May 1-June 30.....	9	4	
Do.....	July 8-14.....		1	
Mexico City.....	May 4-June 28.....	96		Including municipalities in Federal district.
Do.....	June 29-July 5.....	9		
Salina Cruz.....	May 25-31.....	1	1	
Tampico.....	June 14-20.....	2		
Do.....	July 1-20.....	6	5	
Palestine:				June 17-23, 1924: 20 cases in northern district.
Samaria Province—				
Samak.....	May 27-June 2.....	1		
Poland.....				Mar. 30-May 3, 1924: Cases, 164; deaths, 7.
Portugal:				
Lisbon.....	May 25-June 21.....	7	1	
Do.....	June 29-July 5.....	2		
Oporto.....	May 11-June 28.....	18	16	
Do.....	June 29-July 19.....	2	7	
Russia.....				Jan. 1-Dec. 31, 1923: Cases, 44,628.
Siam:				
Bangkok.....	Apr. 27-June 14.....	3	5	
Spain:				
Barcelona.....	Year 1923.....	160		
Malaga.....	June 29-July 5.....		2	
Valencia.....	June 8-21.....	3		
Do.....	July 13-19.....	1		
Straits Settlements:				
Singapore.....	May 4-24.....	2	1	
Sumatra:				
Medan.....	Jan. 1-31.....	5		
Switzerland:				
Berne.....	May 25-June 28.....	22		
Do.....	June 29-July 5.....	5		
Syria:				
Damascus.....	May 28-June 12.....	12		
Tunis:				
Tunis.....	May 27-June 30.....	17	4	
Do.....	July 1-14.....	1	5	
Turkey:				
Constantinople.....	June 1-7.....	1		
Union of South Africa.....				Mar. 1-May 31, 1924: Cases, 133 (white, 15; native, 118). Outbreaks.
Cape Province.....	May 4-31.....			Do.
Orange Free State.....	May 4-10.....			Do.
Transvaal.....	May 4-31.....			Do.
On vessel:				
S. S. Karoa.....	May 7.....	1		At Durban, South Africa, from Bombay, India. Vessel left Bombay Apr. 16, 1924. Patient, European.
S. S. Mount Evans.....	July 8.....	1		At Key West, Fla., from Manchester, England.

TYPHUS FEVER

Algeria:				
Algiers.....	May 1-June 30.....	24	9	
Brazil:				
Porto Alegre.....	June 1-7.....		1	
Chile:				June 16, 1924: Two cases in Lazaretto.
Antofagasta.....				
Concepcion.....	May 20-26.....		3	
Iquique.....	June 22-28.....		1	
Talcahuano.....	May 25-31.....	2		
Valparaiso.....	May 25-June 21.....		11	
Do.....	June 29-July 5.....		3	
China:				
Antung.....	June 2-16.....	6		
Chungking.....	May 11-June 14.....			Present.
Chosen:				
Chemulpo.....	May 1-June 30.....	10		
Seoul.....	do.....	43	5	

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

Reports Received from June 28 to August 15, 1924—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt:				
Alexandria.....	June 25-July 1....	1		
Cairo.....	Feb. 19-Apr. 15....	17	9	
Esthonia:				Apr. 1-May 31, 1924: Cases, 32.
Germany:				
Coblentz.....	July 13-19.....	2		
Great Britain:				
Ireland—				
Dublin.....	June 8-14.....	1		
Greece:				
Saloniki.....	Apr. 20-May 4....	6		
Iraq:				
Bagdad.....	Apr. 27-May 10....	2		
Latvia:				Apr. 1-May 31, 1924: Cases, 82.
Mexico:				
Guadalajara.....	May 1-June 30....	2	2	
Mexico City.....	May 4-June 28....	59		Including municipalities in Federal district.
Palestine:				
Jaffa.....	June 17-23.....	1		
Jerusalem.....	July 1-7.....	1		
Poland:				Mar. 30-May 3, 1924: Cases, 1,543; deaths, 142. Recurrent typhus: Cases, 27; deaths, 3.
Portugal:				
Oporto.....	June 15-21.....		1	
Russia:				Jan. 1-Dec. 31, 1923: Cases 242,890. Recurrent typhus, Cases, 258,271.
Syria:				
Aleppo.....	June 8-14.....	1		
Tunis:				
Tunis.....	May 27-June 9....	4		
Turkey:				
Constantinople.....	May 18-June 21....	7	2	
Union of South Africa:				Mar. 1-May 31, 1924: Cases, 344; deaths, 35 (white, cases, 20; deaths, 1; native, cases, 324; deaths, 34).
Cape Province.....				Mar. 1-May 31, 1924: Cases, 203; deaths, 11.
Do.....				June 1-7: Outbreaks.
Natal.....				Mar. 1-May 31, 1924: Cases, 18; deaths, 3.
Do.....				June 1-7: Outbreaks.
Durban.....	Apr. 20-26.....	1		
Orange Free State.....				Mar. 1-May 31, 1924: Cases, 64; deaths, 9.
Do.....				June 1-7: Outbreaks.
Transvaal.....				Mar. 1-May 31, 1924: Cases, 39; deaths, 5.
Johannesburg.....	May 11-24.....	2		

YELLOW FEVER

Brazil:				
Pernambuco.....	May 11-17.....	2	1	