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FILTERABILITY OF THE INFECTIVE AGENT OF PSITTACOSIS IN BIRDS

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The following observations suggest that the causative agent of psittacosis in birds is filterable.

EXPERIMENT I

Parrakeet No. 2 was injected subcutaneously with an emulsion of organs from a parrot that had been regarded as responsible for human infection, and, in addition, part of the carcass of the bird was put into the cage with the parrakeet. This parrakeet was found dead in the cage on the sixth day after inoculation.

An emulsion of the tissues of parrakeet No. 2 was used for the subcutaneous inoculation of parrakeet No. 6. This bird was sick on the seventh day, was chloroformed, and material was taken for further work.

Heart, liver, lungs, kidney, and breast muscle of parrakeet No. 6 were used to prepare an emulsion, part of which was filtered through a Berkefeld N filter. Fluid and plate cultures of this filtrate indicated sterility in the ordinary bacteriological sense. One cubic centimeter of this emulsion (filtrate) was inoculated into the breast muscle of two parrakeets, Nos. 7 and 8. Both these birds died on the seventh day after inoculation. Another portion of the emulsion of organs of parrakeet No. 6 was, at the same time that the filtration test was made, used without filtration to inoculate two parrakeets, Nos. 9 and 10 (controls). The inoculations also were made into the breast muscles, and the amount of the emulsion used was 0.25 c. c. to 0.5 c. c. Parrakeet No. 9 died on the eighth day and No. 10 on the twelfth day.

EXPERIMENT II

Droppings from a parrot that was regarded as having caused human infection were kept dry in a refrigerator for 31 days. At the end of this time a small portion of the droppings was emulsified and part of the emulsion was filtered through a Berkefeld N filter and tested as in the preceding experiment. The filtrate and the unfiltered emulsion

(control) were stored overnight in the ice box before being used for inoculation purposes.

The results of the inoculation of the filtrate and of the unfiltered emulsion into parrakeets are shown in the following table. Certain of the birds were given phenolized serum from a recently recovered case of psittacosis (human) and others were given normal human serum, also phenolized. The serum in each case was given just prior to the giving of the infecting material and at a different site.

Birds given filtered emulsion				Controls (emulsion n	ot filtered)
Bird	Other treatment	Interval between in- oculation and death	Bird	Other treatment	Interval between in- oculation and death
A B C D F.	NonedoImmune serumdoNormal serumdo	Well after 20 days. 10 days. 4 hours. 14 days. 1 day. 3 days.	G J	None Immune serum do Normal serum	Well after 20 days. 11 days. 8 days. 4 days.

This experiment shows no material difference between the tests on filtrate and on the unfiltered material. No definite influence of serum is to be seen, for while the birds given the normal serum died much earlier than those given serum from the recovered case, there was one survival of the two birds given filtrate alone, and the single bird given only unfiltered emulsion also survived.

MENTAL DISORDERS AND THE PUBLIC HEALTH

By Hugh S. Cumming, Surgeon General, United States Public Health Scrvice 1

The public health administrator of the present day is called upon from time to time to make new adjustments and new adaptations to meet the ever changing conditions of modern life. New diseases are being recognized and discovered, demanding studies and investigations for their control and suppression; old diseases lose their significance through changing virulence, a community immunity, modifications in living conditions, or the development of more accurate methods for their prevention; while still other diseases, long recognized, in time become of greater relative importance and significance to the public-health official.

The business of public health is constantly changing. The dramatic and spectacular experiences in the suppression of diseases, borne by insects, water, food, or other physical agents, occur less and less each year. This is probably due, in part, to the fact that mankind

¹ Address delivered at a meeting of the Mental Hygiene Society of Maryland, at Osler Hall, Baltimore, Mar. 7, 1930.

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has become more tolerant and cognizant of the necessity for absolute control of his physical environment. But public sentiment has not been sufficiently aroused to demand the control and suppression of those diseases that are dependent for their prevention on the restriction of individual rights. In the field of public health, the restriction and control of persons, such as disease carriers, affords an altogether different problem from the restriction of things and the control of physical environment.

Efforts to control smallpox further illustrate this situation. One of the most reliable and specific preventives known to medicine is available for the control of this disease, and yet an organized opposition to vaccination demands a constant educational program for the protection of a community against smallpox. Despite the difficulties encountered in the control of those diseases, demanding the control of man himself, the interest of the public-health official is also stimulated by such situations as the increase of cancer, the relative increase of deaths from cardio-vascular diseases or pneumonia, and of those endemic diseases involving the nervous system, such as disseminated sclerosis, anterior-poliomyelitis, encephalitis lethargica, or that wide variety of diseases included under the term of mental disorders. Thus, new adjustments must be made from time to time by health agencies to meet the spirit of the times; but these must be tempered by the customs and traditions of public-health practices and procedure.

The necessity for directing efforts toward the prevention of mental disorders, toward the conservation of mental health, and toward the amelioration of adverse mental states is brought to our attention by the ever-increasing number of persons with mental disorders seeking aid in public institutions. During the 50-year period from 1880 to 1930, the rate of persons under care in State hospitals for the insane alone had increased from 81 to more than 220 per each 100,000 of the general population. The rate had almost trebled, but the actual number of cases under care had increased to almost six times the number under care in 1880. The rapid expansion in public facilities for the care of the group comprising one form of mental illness—namely, the group for whom the public demands segregation—has entailed an enormous outlay of public funds for buildings and equipment, and required yearly increases in expenditures for the care of inmates.

This economic loss is of vital interest to legislators and practical administrators, who are equally desirous of reaching an adequate solution of the problem. An intangible, but none the less important, aspect of such a situation is the economic loss to the community through invaliding so many people in the prime of life, and the suffering of individuals whose families are not infrequently rendered impoverished by such diseases.

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The problem of the so-called insanities is only one of the several problems, for other mental disorders also claim attention. These include the mentally defective or feeble-minded, as they are more often termed. Their prevalence is not exactly known; but studies conducted by the Public Health Service, as well as by others, indicate that they may be found in the proportion of about 5 to each 1,000 of the general population. With this figure as a basis, it is estimated that there are at least 500,000 feeble-minded persons in the United States to-day.

Besides this feeble-minded group, there is also a large number of so-called nervous invalids in whom the community is not interested sufficiently to warrant their segregation, but whose illness, nevertheless, interferes with good social adaptation and individual efficiency. These are sometimes called the nervous prostration cases, the hysteric, the neurosthenic, the psycho-neurotic; or as an interested public has dubbed them, the "shellshocks of civilization." Lastly are those with convulsive disorders, which, for purposes of convenience, have been grouped under the term "epilepsies."

It is obvious from the foregoing statements that those interested in the prevention, control, or suppression of mental diseases must be concerned with a variety of mental disorders and conditions, including the so-called insanities, feeble-mindedness, the epilepsies, and mild manifestations of mental ill health.

For a long time mental diseases were considered apart from general medicine and little effort was made to understand their nature or causes. During the early ages, those afflicted with mental deviation were regarded as either possessed of special virtues which are attributed to the Deity or as having demoniacal qualities acquired of his satanic majesty. In recent years, however, there has been an awakening of interest which has developed the specialty of psychiatry more or less independently of other branches of medical practice. A traditional aversion toward those of unsound mind, shared by the medical profession, probably operated in no small degree to produce this effect. Among other factors which played a part in this independent development was the segregation of mentally disordered persons in public institutions that were more or less isolated and remote from other centers of medical work, and also from a conscious or unconscious isolation on the part of workers engaged in this special field of medical endeavor.

But this isolation of psychiatry is gradually giving way to an appreciation of the relationship of mental factors to many forms of illness and to the establishment of a more common meeting ground with specialists in other branches of medical practice. This has been especially true with regard to those engaged in preventive work. A common meeting ground has been established with the social and

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other organizations which minister to the needs of the community with regard to education, dependency, reformation, and other social problems.

In approaching the problem of mental health, the public-health administrator should contemplate the coordination of health activities with those institutional and communal forces that are called upon to minister to the needs of the mentally ill. A broad program of mental hygiene should consider where and under what conditions mental disease occurs and aid in developing appropriate means for the early recognition and treatment of mentally ill persons by providing adequate and suitable facilities for such purposes and by training personnel to undertake the work. It should also contemplate investigations and studies with respect to the underlying reasons or causes of mental ill health and interpret and diffuse such knowledge to the public and medical profession. A balanced program should also consider a just apportionment of the cost of supervision and care of the mentally ill persons by a humane and efficient method of interchange between communities having responsible jurisdictions, thus partly serving in the solution of the economic problems involved. A well-balanced program must take cognizance of the activities of agencies tending to conserve an individual's social integrity and afford such assistance and cooperation as may be possible, either directly or indirectly, that may influence the solution of these problems.

It may be of interest to enumerate briefly the accomplishments and rôle of the United States Public Health Service in carrying such a broad general program into effect. The first contribution of the Public Health Service in the field of mental health had its inception in 1875 when, by a decision of the Supreme Court, all State laws relating to foreign immigration were declared unconstitutional and the authority for the regulation of foreign immigration was declared vested in the Federal Government. This left suspended the means by which the separate States could care for the thousands of sick, disabled, and insane immigrants who came to their shores. not until 1882, however, six years after State regulation was declared unconstitutional, that the first Federal immigration law was enacted. Several changes took place in this law, a significant one in 1891, since which year the medical examination of arriving aliens has been conducted by officers of the United States Public Health Service. The mental disorders that are now mandatorily excluded embrace the insane, idiots, imbeciles, feeble-minded, chronic alcoholics, constitutional psychopathic inferiors, and the mentally defective. Our changing immigration policy inaugurated by the per-centum limit plan of restriction provided in 1924 for a system of consular inspection of prospective immigrants in countries of origin. This was by no means a new proposal, for the first bill providing for such a scheme

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was introduced into Congress in 1838. During the first year of operation after the passage of the act of 1924, physically and mentally disabled immigrants continued to arrive at ports of entry in the same proportions as before. The same hardships and inconveniences continued, and through invitations of the British and Irish Free State Governments officers of the Public Health Service were stationed in 1925 at seven American consulates in Great Britain and Ireland for the purpose of medically examining prospective immigrants who apply for American immigration visa.

The results of this experiment of examining prospective immigrants in their country of origin was so satisfactory to all concerned that our Government was asked to continue the practice. Other governments, seeing the advantage to be had, extended an invitation for the same procedure to be applied to their nationals. The work inaugurated August 1, 1925, had extended to 9 countries, involving 27 stations and 37 officers of the Public Health Service by February 1926. During the last fiscal year (1928–29) 7 out of every 1,000 prospective immigrants examined abroad were denied permission to immigrate to the United States because of mental disorders.

Throughout the more than 35 years of the experience of the Public Health Service in immigration work, sincere efforts have been made to bring about greater perfection in the recognition of mental defects and diseases among immigrants and to improve the work. As a means for further improving the early recognition of mental disabilities among prospective immigrants, special studies have been made in countries of origin. Heretofore the individual immigrant has been the only unit considered in immigration work. Studies with reference to the feasibility of making the family the unit for consideration are now under way.

Since the growth of our population has been associated with increasing tides of immigration in the past, it might be expected that the foreignborn population would play some rôle in the evolution of public policies involving relief from the Public Treasury. Investigations along these lines indicate that the foreign-born population furnish the highest proportion of admissions to State hospitals; that the native born of foreign or mixed parentage furnish the next highest; and the native born furnish the lowest proportion. The factors productive of such a situation are very complex and form an intricate maze of forces continually working in and through each other. Obviously, the different methods of social adjustments and adaptations made by our foreign-born population must be the result of a variety of factors. It is conceivable, however, that racial traits which influence normal mental health may also be mirrored in abnormal mental states. Thus in mental disorders produced from such exogenous causes as syphilis, infectious diseases, and other physical disturbances, an

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important rôle is played in their genesis by the sexual life, social customs, occupations, and habits of different racial groups; and even in those mental diseases in which endogenous factors play an important rôle, racial customs and traditions may be of significance.

It was not until 1914 that the Public Health Service undertook certain field studies and investigations referable to mental hygiene in American communities. These studies dealt with the physical and mental status of school children and with the mental status of the dependent and delinquent classes. Special surveys were made of States and local jurisdictions with reference to the prevalence and needs of the feeble-minded in the general population. Surveys and studies were also undertaken among those under care in institutions devoted to the supervision of the dependent and delinquent classes and of special institutions devoted to the care of the feeble-minded. Certain studies were also made in connection with juvenile-court work, with special reference to the mental status of those coming within the purview of such courts. The results of these studies have been published from time to time.

In the examination of some 30,000 American school children opportunity was afforded to ascertain the value of certain psychological tests and to study those children who could not profit by the usual course of study as provided in public schools. At least 20 in every 1,000 belong to this group: Some are feeble-minded, others belong to that twilight zone between normality and feeble-mindedness, others are simply mentally retarded, while still others, because of their emotional instability and because of faulty habits of thought and conduct, are problem children in schools and in the home.

With reference to the feeble-minded the Public Health Service has proceeded on the principle that life-long supervision is fundamental in the solution of this problem. Such a policy embraces a system of state-wide supervision of all mentally defective persons: First, by the early recognition in public schools; second, by training such children in special classes established in connection with educational facilities; third, by exercising care and supervision of those needing it in the community; and fourth, by institutional training and supervision of those who do not benefit by facilities available in the community. A policy of this character involves a state-wide program entailing close cooperation between health agencies, public-school authorities, and those who minister to the needs of mentally disordered persons generally. The machinery necessary to develop such a program concerns itself, first, with the establishment of the State training school for this class of the general population; second, with the organization of special classes in public schools; and third, with the development of a placement and supervision agency in the community. An adequate system of medical supervision of schools

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should be of assistance in this important undertaking and lend valuable aid to those engaged in this effort.

It was recognized also that among certain children physical defects seemed to play a rôle in the production of mental retardations. Those defects which directly or indirectly affect hearing, such as middle ear disease, adenoids, and enlarged and diseased tonsils, were considered important in the production of retardation. Vision defects did not seem to play such an important rôle in this respect, but conditions associated with malnutrition, such as hookworm disease, intestinal parasites, and malarial cachexia, seemed to play an important rôle. Such findings open up an interesting avenue of speculation with reference to nutrition in childhood and its relation to mental retardation.

Many of the so-called problem cases were recognized as possessed of character traits that are prominent features in the past history of the mental invalids seen in later life. The recognition and correction of these unhealthy habits of thought and conduct in childhood may be of value in the prevention of future mental ill health, and every system for the medical supervision of school should recognize it.

In studies of the personality of feeble-minded children in the community, it was recognized that a variable proportion presented traits of character which were definitely antisocial and that the segregation of such cases was probably essential for the greater part of their lives. Special provision is now being made by some States for the segregation of this class or group in special institutions.

Whereas the Public Health Service has been interested in the study of the mental traits and mental disorders among children, no studies have been made of the preschool age group, and no experience has been acquired in connection with the mental hygiene problems arising in preparatory schools or colleges. Moreover, no experience has been had in relation to modifications or the development of the curricula of medical, theological, or law schools bearing upon the nature of mental health problems which such professions encounter in their daily work.

With the advent of the Great War, Congress created a venereal disease division in the Public Health Service, which has for its object the control and suppression of venereal diseases and research in this particular field. In the activities of that division, intensive cooperation has been maintained with State departments of health; venereal diseases have been made reportable; the manufacture, interstate sale, and purity and potency of arsenicals used in the treatment of these diseases have been supervised; special studies and investigations of diagnostic procedure and treatment have been made and are now being conducted under the supervision of the Public Health Service. Such activities must eventually reflect themselves in the

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better control of venereal diseases and, hence, in a reduction in the morbidity and mortality rate of general paresis.

Subsequent to the World War, the Public Health Service was called upon to provide additional hospital facilities for the care of the disabled ex-service man and woman. In the solution of this problem this service initiated a broad program with respect to the care of the mentally disabled ex-service man, and estimated the needs, both present and future, respecting this class of beneficiary. As a member of the Interdepartmental Hospital Board concerned with this problem. it is gratifying to learn that the broad policies laid down, and the estimates made by the Public Health Service are being carried to completion.

The care afforded the insane and other mentally disabled residents of the Territory of Alaska have been the subject of discussion from time to time. In 1929 the Department of Interior asked the cooperation of the Public Health Service in this matter, and pursuant to an act of Congress, an officer was detailed to supervise the care of the Alaska insane under treatment at Portland, Oreg. The outgrowth of such a detail may mean the eventual improvement in the care of, and the development of facilities for, the mentally ill of Alaska.

Special studies of the abusive use of narcotic drugs have been undertaken by the Public Health Service since 1922. On January 19. 1929. Congress authorized the establishment of two institutions for the confinement and treatment of persons addicted to the use of habitforming narcotic drugs who have committed offenses against the United States, and the Public Health Service was designated as the Federal agency to administer these institutions. The act created within the Public Health Service a Narcotics Division for that purpose. The functions of the newly created division are both administrative and investigative in character. The Congress of the United States has directed that these institutions to care for adult offenders shall be designed and operated as curative and rehabilitation centers.

But curative and rehabilitation centers are not created by legislative acts alone. Nor do sites, locations, buildings, and equipment, while necessary, mean that the institutions will perform these functions. Above all this, there is the necessity for competent, efficient. and interested personnel. It was assumed that such a personnel was available or could be recruited from a suitable permanent organization with a traditional background for accomplishment. connection, it may or may not be significant that the Public Health Service was chosen to accomplish this task.

The narcotic farms act provided for the Public Health Service to assume the responsibility for the confinement and treatment of a certain class of Federal prisoners who are addicted to the use of habitforming drugs. Acting upon this precedent, the Department of April 4, 1930 734

Justice has requested the Public Health Service to assume supervisory charge and to administrate the medical and psychiatric service in Federal prisons under the control of the Department of Justice. Such a plan has the approval of the two departments concerned, and a bill to accomplish it has been introduced into Congress and has already passed the House. With such a scheme the Public Health Service may be in a position to contribute more to the field of mental hygiene in relation to correctional procedure.

In addition to the activities enumerated, the Public Health Service has supplemented the information issued by the Bureau of the Census by ascertaining and publishing currently in the Public Health Reports certain data respecting the incidence of mental diseases in the United States with reference to the admissions and discharges of mentally disordered persons in State institutions. It is obvious that data of this character have some value, but the control and suppression of disease is dependent upon a knowledge as to when, how, and where such diseases occur. An epidemiological approach toward the problem of mental disorders is a necessary adjunct in connection with the control and suppression of mental diseases and is in keeping with the customary approach of agencies dealing with health problems.

COURT DECISION RELATING TO PUBLIC HEALTH

Statute regarding furnishing of health certificate by school-teacher construed.—(Missouri Supreme Court, Division No. 1; Tate v. School Dist. No. 11 of Gentry County, 23 S. W. (2d) 1013; decided Dec. 31, 1929.) In an action brought against a school district to recover on a contract of employment as teacher, one of the matters passed on by the supreme court was the construction of a statutory provision reading as follows:

No teacher shall be employed to teach in the schools of Missouri who have [has] not furnished a certificate by a reputable physician, showing said teacher to be in good health and free from any contagious disease at the time the certificate is granted.

The court stated that it was obvious that "it was the legislative intent, derivable from the language used in the statute, that the time of furnishing the required certificate shall be referable to the actual period of employment of the teacher, and not to the date of execution of the contract of employment." Continuing, the court said:

* * The evident object and purpose of the statute is that the teacher shall be in good health and free from any contagious disease during the term of actual employment, or at least at the beginning of the term of actual employment. Crabb v. School District, 93 Mo. App. 254, 260. Any other construction would make the statute uncertain and indefinite in meaning and application; for, if the statute be construed literally, a teacher may comply with the literal requirement of the statute by "furnishing a certificate by a reputable physician, showing said teacher to be in good health and free from any contagious disease at the time the

certificate is granted," although the certificate of the physician may have been granted 1, 5, 10, or any number of years prior to the actual period of employment of the teacher. * * *

DEATHS DURING WEEK ENDED MARCH 22, 1930

Summary of information received by telegraph from industrial insurance companies for the week ended March 22, 1930, and corresponding week of 1929. (From the Weekly Health Index March 26, 1930, issued by the Bureau of the Census Department of Commerce)

	Week ended Mar. 22, 1930	Corresponding week, 1929
Policies in force	75, 593, 686	73, 638, 229
Number of death claims	15, 822	16, 659
Death claims per 1,000 policies in force, annual rate.	10. 9	11. 8

Deaths from all causes in certain large cities of the United States during the week ended March 22, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, March 29, 1930, issued by the Bureau of the Census, Department of Commerce)

City	Total deaths	 	rate per 1,000,			
Total (64 cities)		Death rate ¹	corre- sponding week, 1929	Week ended Mar. 22, 1930	Corresponding week, 1929	mortality rate, week ended Mar. 22, 1930 ²
Total (64 cities)	7, 862	13. 9	14.1	713	770	1 63
Akron	53			3	5	27
Albany 4	45	19.5	15.6	. 2	1 4	44
Atlanta	88	18.0	15.7	. 7	7	74
White	41			3	5	95
_ Colored	47	(5)	(5)	4	2	63
Baltimore 4	267	16.8	14.1	26	12	88
White	216			22	8	95 65
Colored	51 66	(5) 15. 5	(5) 17. 1	4	6	56
Birmingham	28	15.5	17.1	1	4	15
WhiteColored	38	(5)	(3)	5	2	118
Boston	265	17.3	18.5	28	25	79
Bridgeport	33	1	20.0	2	6	34
Buffalo	153	14.4	14.0	16	12	71
Cambridge	35	14.5	13.7	5	1	93
Camden	30	11.6	13. 5	4	Ī	73
Canton	23	10.3	10.3	3	i 2	74
Chicago 4	778	12.8	13. 2	68	69	60
Cincinnati	140			13	15	77
Cleveland	208	10.7	10.4	24	18	72
Columbus	96	16.7	14.8	7	5	68
Dallas	56	13. 4	14.6	7	5	
White	34			4	4	
Colored	22	(5) 11. 6	(5)	3	1	
Dayton	41		14.7	3 9	9	44
Denver	94	16.7	15.1	1	3	94 17
Des Moines	29 313	10.0 11.8	11. 0 13. 5	46	43	71
DetroitDuluth	24	10.7	12.9	4	2	108
El Paso	35	15.5	17.3	2	8	100
fall River	32	12.4	8.5	3	4	69
Flint	32	11. 2	9.8	6	7	70
ort Worth	42	12.9	11.6	ž	3	
White	34			Ö	3	
Colored	8	(5)	(3)	2	Ō	
Frand Rapids	31	9.8	8.6	4	1	61
Iouston	62			4	9	
White	33			2 2	8	
Colored	29	(5)	(9)	2	1	
ndianapolis	100	13.6	16.8	3	4	22
White	84			` 2	4	17
Colored	16	(9)	(1)	.1	0 7	54
ersey City	65	10.4	10.4	11	6	96 47
Kansas City, Kans	23	10.1	16.7	2	2	53
WhiteColored	20	(3)	(5)	2	2	

Deaths from all causes in certain large cities of the United States during the week ended March 22, 1930, infant mortality, annual death rate, and comparison with corresponding week of 1929. (From the Weekly Health Index, March 29, 1930, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week en 22,	ded Mar. 1930	Annual death		under 1 ear	Infant
City	Total deaths	Death rate 1	rate per 1,000, corre- sponding week, 1929	Week ended Mar. 22, 1930	Corresponding week, 1929	mortalit rate, wee ended Mar. 22, 1930 ²
Kansas City, Mo	116	15. 5	14.7	8 7	12	6
Knoxville	51 39	25. 2	16.8	. 6	3 3	16 15
Colored	12	(5)	(5)	i	ď	24
Los Angeles	311	l		. 20	27	24 6
ouisville	107	16.9	16. 1	9	8 6 2 1 2 9	7. 7. 7. 7. 5.
WhiteColored	79 28		(5)	8	5	7
owell	25	(5)	9	1 3 2	1 1	4
ynn.	21	10.4	11. 9	ž	2	5
ynn Iemphis	102	28.0	24.4	4	9	4
White	50 52			2 2	3	3
Colored	52 124	(5) 11. 9	(5) 14, 5	2	6 30	6 10
Inneapolis		11.3	11. 2	20 8	14	5
Vashville	99 52 31 21	19.4	20.9	6	14 8 6 2 2 3 13	ğ
White.	31			ď	6	8
Colored	21	(5)	(5)	4 2	2	12
ew Bedford	21			2	2	5
lew Haven	46 173	12.8 21.0	14. 2 18. 3	6 25	3	11 14
	98	21.0	10.0	5	13	4
WhiteColored	75	(4)	(4)	20	5 8	33
ew York Bronx Borough	1, 618	(5) 14.0	(⁴) 14. 0	146	168	6
Bronx Borough	236	12.9 12.3	11.0	18	15	4
Brooklyn Borougn	544	12.3	12.9	67	71	7
Manhattan Borough	631	18.8	19.4	43	68	7
Queens Borough Richmond Borough	165 42	10.1	9.8 12.1	14	13 1	4
Awark N J	114	14.5 12.6	15.0	12	11	6
ewark, N. Jaklandklahoma City	68	12.6 12.9	14.1	-0	4 1	
klahoma City	42			5	3 7	99 5
maha	57	13.3	14.0	5	7	5
atersonhiladelphia	40	14. 4 13. 7	14.8 13.7	5	. 4	8
ittsburgh	544 185	14.8	16.7	87 20	54 23	5. 73
ortland, Oreg.	91	17.0			ĩ	74
rovidence	68	12.4	15. 5	8		5. 1.
ichmond	49	13.1	17. 2	1	9 6 2 4	15
White	31			0	2	
Coloredochester	18 77	(⁶) 12. 2	(1)	5	6	44
t. Louis	259	15.9	17.3	12	20	39
Paul	59			12 2 3	2	20
ut Lake City	59 39	14.7	14.0	3	2 7 8 2	47
n Antonio	59	14.1	12.7	11 2	8	
in Diego	42			2	2	42
n Francisco	162 21	14. 4 11. 7	12.1	4	6	27 31
attle.	94	12.8	7. 8 10. 3	2	3 7 3	20
merville	20	10. 2	10.7	3	ġί	96
okane	21	10.0	15.3	1	1	20
okane oringfield, Mass	38	13. 2	14.3	5	5	96 26 79 62
acoma	42	11.0	15.7 8.0	5	6	62 26
oledo	21 38 42 37 64	17. 5 10. 7	13.0	1 2	7	2
renton	40	15.0	15.0	3 5	7	03
tica.	29	14.5	15. 5	5	5	142
ticaashington, D. C	29 147	13. 9	16.5	13	9	. 75
White.	94 (· -		4	7	35
Colored	53 24	(4)	(9)	9	9 7 2 1	160 26 68
aterburyimington, Del	21	12.6	16.6	1 8	8	20
orcester	31 50	13. 2	15.6	4	9	52

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.

³ Deaths for 71 cities.

⁴ Deaths for week ended Friday.

⁵ In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knovville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowldge 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 Weeks Ended March 22, 1930, and March 23, 1929

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 22, 1930, and March 23, 1939

	Diph	theria	Infl	lenza	Me	asles		gococcus ngitis
Division and State	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929						
New England States:								
Maine		6	6	26	31	251	2	0
New Hampshire	3	3	7	14	29	36	0	i o
Vermont		3			18	7	0	ĺÒ
Massachusetts	68	84	13	65	862	387	7	0 0 5 0
Rhode Island	4	11	l	6	2	90	0	lò
Connecticut	20	28	9	18	16	515	2	2
Middle Atlantic States:	1 1							·
New York	126	310	1 40	1 52	961	1, 214	21	42
New Jersey	146	107	15	22	788	246	11	6
Pennsylvania	159	189			1, 297	2, 293	21	7
East North Central States:						•		
Ohio	28	29	12	43	720	1, 263	4	5
Indiana	24	30			84	485	14	0
Illinois	164	157	44	220	662	1, 637	10	14
Michigan	66	88	8	20	995	417	24	38
Wisconsin	14	17	30	50	835	1, 142	4	8
West North Central States:							l i	
Minnesota	14	27	4	1	292	752	3	3
Iowa	6	11			462	57	1	5
Missouri	37	52	9	14	145	384	13	35
North Dakota	5	8			26	81	1	6
South Dakota	1	3	2	1.	109	16	0	2
Nebraska	12	16			594	49	4	2 2
Kansas	13	9	1	26	557	290	3	9
South Atlantic States:	1							
Delaware	4	1	1	3	18	32	0	0
Marvland 2	21	20	36	98	19	83	1	1
District of Columbia	18	11		5	1	24	0	0
West Virginia	21	9	22	64	97	249	2	3
North Carolina	33	22	36		25	72	2	5
South Carolina	14	17	914	623		10	4	0
Georgia:	6	7	128	55	221	25	10	1
Florida	7	6	2	4	388	26	0	0
East South Central States:	ı				1			
Kentucky					217	54	2	0
Tennessee	7	11	95	95	287	6	52	5
Alabama	22	26	171	111	312	114	6	7
Mississippi	10	3	- l		,l		- 11	

¹ New York City only.

² Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 22, 1930, and March 23, 1929—Continued

	,		1		т			
	Diph	theria	Infl	lenza	Ме	asles	Menin men	gococcus ingitis
Division and State	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929
West South Central States: Arkansas	8 18 15 34	16 21 18 21	68 27 54 26	148 99 153 64	17 122 140 129	56 85 27 150	10 2 3 4	6 2
Mountain States: Montana Idaho Wyoming Colorado New Mexico Arizona Utah ¹	1 10 8 7 4	4 3 2 10 4	1 8	6 4 4 9 1	33 28 10 347 122 30 186	130 4 22 11 2	3 2 0 2 2 4 5	6 10 6 3 2 14
Pacific States: Washington Oregon California	3 11 54	7 8 58	58 34	107 102	269 52 1, 901	105 194 57	9 1 13	34 2 18
	Polion	yelitis	Scarle	t fever	Sma	allpox Typho		id fever
Division and State	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0000	00000	52 23 12 269 20 139	56 26 20 336 23 74	0 0 1 0 0	2 0 11 0 0	0 0 0 0 0	0 0 0 4 2 1
Middle Atlantic States: New York New Jersey Pennsylvania East North Central States:	1 0 0	1 1 2	627 308 547	708 233 531	16 0 3	5 0 0	18 6 10	11 4 17
Unio Indiana Illinois Michigan Wissonsin	0 0 0 2 0	2 0 3 1 0	247 161 624 320 170	306 230 523 368 263	174 144 139 79 24	47 60 157 84 5	4 0 6 4 4	16 6 4 5 4
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Nebraska Kansas	2 0 0 0 0 1	0 1 0 0 0 0	142 90 114 24 16 87 135	103 182 87 47 31 120 223	10 87 72 10 41 45 110	0 60 40 6 15 71 79	6 2 2 3 1 0 5	3 3 7 0 1 1 0
South Atlantic States: Delaware Maryland ² District of Columbia West Virginia. North Carolina South Carolina Georgia. Florida.	0 0 1 0 0 0	0 0 0 2 0 0	12 99 26 45 39 23 24	2 105 24 16 33 13 20 10	0 0 29 15 0 0	0 0 21 14 3 15	11	0 2 0 21 6 6 6 3
East South Central States: Kentucky	0 2 1 0	0 0 1 0	39 70 28 13	112 52 11 7	20 10 2 0	43 0 6 1	2 18 18 4	6 4 12 2
West South Central States: Arkansas Louisiana. Oklahoma J Texas.	0 0 1 0	0 0 0 1	11 27 21 58	9 53 28 71	39 1 74 35	6 5 101 85	15 3 0	3 7 4 3

² Week ended Friday.

³ Figures for 1930 are exclusive of Oklahoma City and Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended March 23, 1930, and March 23, 1929—Continued

	Polion	nyelitis	Scarle	t fever	r Smallpox T			'yphoid fever	
Division and State	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	Week ended Mar. 22, 1930	Week ended Mar. 23, 1929	
Mountain States: Montana	0 0 0 0 0 0 0	0 0 1 0 0 0 0 0	42 7 2 20 20 36 6 6 61 44 182	21 27 7 20 27 6 20 53 473	9 11 5 9 3 41 0 71 21 67	4 11 2 26 0 6 2 52 36 37	0 2 0 7 0 1 0 6 1 8	0 0 0 1 3 1 1 1	

² Week ended Friday.

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	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Ma- laria	Mea- sles	Pella- gra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
January, 1930 Hawaii Territory February, 1930	2	39	14		70		1		1	5
Idaho Illinois Louisiana Maine Maryland Minnesota Missouri New York North Carolina Ohio Oklahoma ! Pennsylvania Rhode Island West Virginia	27 44 18 1 1 20 11 76 85 17 42 0 11	85 633 69 15 108 281 48 164 577 145 251 80 627 48	138 156 47 188 36 9 168 157 167 595	21 1 2 32 3 3 58	347 2, 337 428 74 53 2, 028 1, 023 518 2, 449 2, 488 518 3, 077 13 295	7	06 1 2 1 3 10 4 5 1 2 0	45 2, 541 78 233 400 1, 365 575 554 2, 128 234 1, 396 165 2, 005 135	71 493 25 0 0 311 33 336 222 79 825 391 10 0	21 37 14 12 11 11 7 82 10 35 28 51 23

January, 19 3 0		Chicken pox:	Cases
Hawaii Territory:	Cases	IdahoIllinois	
Chicken pox	95 54	Louisiana	71 224
Hookworm disease Impetigo contagiosa Leprosy	3	Maryland	926
Mumps Psittacosis	26 1	Missouri	542
Tetanus Trachoma Whooping cough	2 1 22	North Carolina Ohio Oklahoma ¹	1,863
February, 1930		PennsylvaniaRhode Island	2, 752 71
Actinomycosis:	_ [West Virginia	
IllinoisAnthrax:	1	Conjunctivitis: Oklahoma 1	
New YorkOklahoma 1	2	Diarrhea: Maryland	1

¹ Exclusive of Oklahoma City and Tulsa.

Diarrhea and enteritis:	Cases 17		Case
Ohio (under 2 years)	. 17	Ohio	
Illinois	. 12	- 1	
Louisiana		1	
Maryland		,	
Minnesota (amebic)		Illinois	
New York		New York	1
Oklahoma ¹		Ohio	•
Food poisoning:		Pennsylvania	
Ohio	. 1	Rabies in animals:	
German measles:		Illinois	
Illinois	134	Louisiana	,
Maine	. 14	Maryland	
Maryland		Missouri	
New York		New York	
North Carolina		Rhode Island	
Ohio	51	Rabies in man:	
Pennsylvania	290	Michigan	
Rhode Island	26	Scabies:	
Hookworm disease:		Maryland	
Louisiana	14	Oklahoma 1	
Impetigo contagiosa:		Septic sore throat:	
Maryland	4	Idaho	
Lead poisoning:		Illinois	
Illinois	7	Louisiana	
Ohio	3	Maine	
Leprosy:		Maryland	2
Illinois	1	Michigan	4
Louisiana	1	Missouri	
ethargic encephalitis:		New York	4
Illinois	7	North Carolina	
Maine	1	Ohio	4
Maryland	2	Oklahoma 1	2
Michigan	5	Rhode Island	
Minnesota	3	Tetanus:	
New York	10	Louisiana	:
Ohio	8	Maryland	
Pennsylvania	7	New York	
Rhode Island	1	Ohio	1
filk sickness:	_	Pennsylvania	-
Illinois	1	Trachoma:	•
fumps:		Illinois	3
Idaho	63	Louisiana	11
Illinois	786	Minnesota	1
Louisiana	8	Missouri	ç
Maine	287	New York	3
Maryland	76	Ohio	6
Michigan	591	Oklahoma 1	9
Missouri	151	Pennsylvania	2
New York		Rhode Island	2
Ohio	785	Trench mouth:	-
Oklahoma 1	31	Oklahoma 1	
Pennsylvania		Trichinosis:	1
Rhode Island	2	Minnesota	48
phthalmia neonatorum:	- 1		17
Illinois	20	Ohio	1
Maryland	30	Pennsylvania	2
New York	1	+	
Ohio	3	Illinois	10
Ohio	120	Louisiana	1
Pennsylvania	7	Maryland	1
The J. 7-1 3	1	Ohio	3
Rhode Island	- 1		
aratyphoid fever:		Undulant fever:	
	1 8	Undulant fover: Illinois	6 1

¹ Exclusive of Oklahoma City and Tulsa.

Undulant fever—Continued.	Cases	Whooping cough—Continued.	Cases
Michigan	. 2	Louisiana	46
Minnesota	. 2	Maine	181
Missouri	. 12	Maryland	186
New York	. 8	Michigan	577
Ohio	. 4	Minnesota	223
Pennsylvania		Missouri	154
Vincent's angina:		New York	1, 645
Maine	. 6	North Carolina	1, 130
Maryland	. 9	Ohio	851
New York	90	Oklahoma ¹	63
Oklahoma 1	. 2	Pennsylvania	1, 551
Whooping cough:		Rhode Island	154
Idaho	16	West Virginia	187
Illinois	811		

¹ Exclusive of Oklahoma City and Tulsa.

RECIPROCAL NOTIFICATIONS

Notifications regarding communicable diseases sent during the month of February, 1930, by departments of health of certain States to other State health departments

Disease	Califor- nia	Connect- icut	Illinois	Minne- sota	New York	Ohio
Dipltheria				1 1		
Smallpox Trachoms			4	1		
Tuberculosis Typhoid fever	1 1		10	29 1 3	2	1

¹ One carrier.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 96 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,-985,000. The estimated population of the 89 cities reporting deaths is more than 30,395,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended March 15, 1930, and March 16, 1929

	1930	1929	Estimated expectancy
Diphtheria: Cases reported			
46 States	1, 423	1, 460	
96 cities	639	765	926
Messles:	-		
45 States	12,980	12, 739	1
96 cities	4,065	4,039	
Meningococcus meningitis:	,,,,,,	2,000	
46 States	247	329	I
96 cities	109	152	
Poliomyelitis:	1 1	-0-	
47 States	19	14	1
Scarlet fever:	1 - 1		
46 States	5, 479	5, 944	
96 cities	2 123	1, 969	1, 619
Smallpox:	1 1	-,	_,
46 States	1, 549	1, 055	l
96 cities	155	75	84
Pyphoid fever:	1		
46 States	152	142	
96 cities	34	27	30
Deaths reported	1		!
Influenza and pneumonia:	1 1		l .
89 cities	1,039	1, 246	i
Smallpox:	1 2,000	1, 220	
89 cities	1 01		

City reports for week ended March 15, 1930

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

If the reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1921 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Diph	theris	Infi	ienza	<u> </u>		
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases re- ported	Cases re- ported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
NEW ENGLAND								
Maine: Portland New Hampshire:	25	1	0	1	0	1	12	4
Concord	0	0	1 0		0 1	2 0	0	4 3
Nashua Vermont: Barre	1	0	0		0	4	0	0
Massachusetts: Boston	60	38	15	3	0	244	51	15
Fall River Springfield Worcester	15 5	3 4 4	0 7 0	1	1 0 0	1 1 56	0 5 0	3 5 0
Rhode Island: Pawtucket Providence	3 8	1 8	3 9	2	8	0	0	4 15
Connecticut: Bridgeport Hartford	1 8	6	3 0	1	0	0 2	0	3 11
New Haven MIDDLE ATLANTIC	30	1	0		0	0	5	6
New York: Buffalo New York Rochester Syracuse New Jersey: Camden.	22 284 9 23	12 236 8 5	6. 135 3 0	29	0 11 0 0	301 8 0	8 175 4 111	15 229 5 7
Newark Trenton Pennsylvania:	50 2	16 3	24 6	4	0	181 26	15 0	5 11 11
Philadelphia Pittsburgh Reading Scranton	96 29 31 6	69 19 3 3	24 9 0 1	11	7 7 0 0	111 244 1 0	65 9 2 0	66 40 4 0
EAST NORTH CENTRAL Ohio:		į	ł					
Cincinnati Cleveland Columbus Toledo Indiana:	6 165 19 42	10 30 4 5	3 28 3 1	4 8 1 8	2 1 1 3	0 4 45 187	0 43 7 21	18 20 6 5
Fort Wayne	3 17 0 1	2 6 1	0 3 0		0	0 15 0 1	0 5 0	3 16 1 2
Chicago	124 13	100	130	20	7	27	79	76 0
Detroit	83 19 3	50 3 2	38 2 0	8	2 0 1	624 8 1	72 7 1	48 5 2

		Diph	theria	Influ	lenza			
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases re- ported	Cases re- ported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
EAST NORTH CENTRAL—continued								
Wisconsin: Kenosha Madison Milwaukee Racine Superior	4 2 178 8 0	2 0 17 2 0	0 1 7 1		0 0 0 0	0 53 7 3 23	0 1 110 0 0	1 7 0 0
WEST NORTH CENTRAL								
Minnesota: Duluth Minneapolis St. Paul Iowa:	3 41 30	0 14 9	0 2 1		0 0 1	76 30 2	0 70 21	1 14 8
Davenport Des Moines Sioux City Waterloo Missouri:	4 2 2 2 25	1 2 1 0	0 0 1 0			0 52 36 63	2 3 14 2	
Kansas City St. Joseph St. Louis North Dakota:	25 0 29	6 0 42	8 0 27	3	0	15 1 3	0 0 17	12 5
Fargo	6 1	1 0	0		0	0	19 0	1
South Dakota: Aberdeen Sioux Falls	3 0	0	0			0 18	0	
Nebraska: Omaha	14	3	15		0	70	0	6
Kansas: Topeka Wichita	3 30	1 2	0 3	1	1 0	52 55	15 2	0
SOUTH ATLANTIC								
Delaware: Wilmington	3	3	4		0	1	0	4
Maryland: Baltimore	165	24	22	16	3	6	3	34
Cumberland Frederick	2	1	0		0	. 0	0	1
District of Columbia: Washington Virginia:	37	13	14	2	1	14	0	14
Lynchburg Norfolk	4 8	0	2 2		0	110 2	8 63	6
Richmond Roanoke	8	2 2 1	2 0		1 0	0 64	0	6 5 2
West Virginia: Charleston		0					2	<u>2</u>
Wheeling	26	2 0	0		0	1		. 2
Wilmington Winston-Salem South Carolina:	11 8	0	8		0	0	0 14	2 2
Charleston	2 4	0	0	41	3	8	1	3 1
Georgia: Atlanta	17	3	3	26	o	19	28	16 0
Brunswick	0	3 0 1	0		0	0	0	·····
Florida: MiamiSt. Petersburg	8	2	4	2	0	1	8	0
Tampa	13	ĭ	1		ĭľ	16	19	Ō

		Diph	theria	Infi	uenza			
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases re- ported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
BAST SOUTH CENTRAL								
Kentucky: Covington Tennessee:	1	0	1		1	. 0	0	3
Memphis Nashville	16 0	4 1	0	3	3	0	17 0	10 7
Alabama: Birmingham Mobile Montgomery	9 1 2	2 0 0	3 0 0	13 1	5 1	2 6 94	1 0 2	11 5
WEST SOUTH CENTRAL								İ
Arkansas: Fort Smith Little Rock	0 13	0	0		-	1 1	0	ō
Louisiana: New Orleans Shreveport	3 4	12 0	10 0	8	7 0	. 50 . 1	0 5	14 3
Oklahoma: Oklahoma City Tulsa	3 25	1 1	0		8	20 317	1 0	0
Texas: Dallas Fort Worth Galveston Houston San Antonio	14 6 0 1	5. 4 1 5	8 1 1 10 3	1	1 1 0 2 2	122 2 0 1	6 0 0 0	5 3 2 7 9
MOUNTAIN		ا			-	•	Ĭ	·
Montana: Billings Great Falls Helena Missoula	1 3 0	0 1 0	0 0 0		0 0 0	0 0 0	10 13 13	1 0 1 0
Idaho: Boise	0	o	0		0	0	0	. 0
Colorado: Denver Pueblo New Mexico:	42 9	9	3 0		2 0	106 0	24 52	5 3
Albuquerque Arizona:	0	0	. 0		0	21	10	3
Phoenix	7 20	1 2	0		0	5	0 11	.1
Nevada: Reno	0	0	0		0	171	0	1
PACIFIC			1		-	1		
Washington: Seattle Spokane Tacoma	67 28 18	4 2 1	3 0 3	1	ō	89 0 32	80 0 2	<u>2</u>
Oregon: Portland	15 12	8	1 0		1 0	7	11 9	7
California: Los Angeles Sacramento San Francisco	83 9 40	41 2 18	19 0 6	20	1 0 0	238 10 560	41 46 108	15 6 3

	Scarle	t fever		Smallpo)X	Tuber-		phoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases,	Cases re- ported	Deaths re- ported	ing cough, cases re-	Deaths, all causes
NEW ENGLAND											
Maine: Portland	3	1	0	0	0	0	0	o	0	7	23
New Hampshire: Concord	0	3	0	0	0	0	0	0	0	9	14
Manchester Nashua	3	0	8	0	0	0	8	0	. 0	0	32
Vermont: Barre	0	0	0	0	0	3	0	0	0	2	5
Massachusetts: Boston	86	81	اه	Q	0	18	1	1	o	58	246
Fall River Springfield	5 8	0 12	0	0	0	3	0	0	0	15 26	55
Worcester Rhode Island:	10	14	0	0		2	0	1	0	16	52
Pawtucket Providence	2 12	1 22	0	0	0	0	0	0	0	13 14	14 64
Connecticut: Bridgeport	12	29	0	0	0	1	0	o	0	0	40
Hartford New Haven	6 10	8 5	0	0	8	6 1	0	8	0	2 6	65 47
MIDDLE ATLANTIC											
New York: Buffalo	29	31	0	0	0	17	0	0	0	28	146
New York Rochester	372 13	374 12	8	Ö	8	124	8	8	0	82 1	1, 684 90
Syracuse New Jersey:	11	41	0	0	0	2	0	Ò	0	19	56
Camden Newark	7 44	8 56	8	8	0	0 5	0	1 0	0	0 21	44 114
Trenton Pennsylvania:	5	12	_	0	0	3	0	0	0	2	42
Philadelphia Pittsburgh	103 33	158 30	8	8	0	37 12	0	1 0	0	20 35	539 226 25
Reading Scranton	6 3	4	Ó	8	0	0	0	11	0	9	25
EAST NORTH CEN- TRAL											
Ohio: Cincinnati	20	29	2	11	0	17	1	0	0	6	164
Cleveland Columbus	47 11	141	2 0 1	9 7	0	14 8	1 0	0	0	94 1	208 70
Toledo Indiana:	14	28	2	5	Ó	4	1	2	1	11	91
Fort Wayne Indianapolis	6 12	18	1 9	12 3	0	0 8	000	0 1	8	2 5	25
South Bend Terre Haute	8	5	0	0	0	1 0	0	0	0 2	0	17 22
Illinois: Chicago	136	341	2	6	o	48	2	1	Ŏ	107	766 14
Springfield Michigan:	4	0	0	٥	0	1	0	0	0	4 35	332
Detroit Flint	120 13	132 21	2 2 0	6 3	0	34 3	0	0 0	8	14	332 32 35
Grand Rapids. Wisconsin:	11	6		0	0	0	1	0	0	6 5	35 11
Kenosha Madison	5	11 5	8	0	0	0	0	ŏ		26 28	104
Milwaukee Racine	39 5	19 5	8	0	0	6	0	ŏ	š	20 2	16 10
Superior	4	4)	υĮ	0]	0)	0 1	. 0]	U I	v 1	, v	10

¹ Nonresident.

	Scarle	t fever		Smallp)X	Tuber-		phoid :	lever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re-	Cases,	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NORTH CENTRAL											
Minnesota: Duluth Minneapolis St. Paul Iowa:	10 57 34	1 12 18	0 3 1	6 0 0	0	1 3 2	0	2 0 0	0 0	2 5 24	28 78 52
Davenport Des Moines Sioux City Waterloo Missouri:	2 9 2 3	0 19 6 0	1 2 0 0	10 16 1 18			0 0 0	0		3 0 4 1	43
Kansas City St. Joseph St. Louis North Dakota:	21 2 38	20 4 41	2 1 2	0 1 5	0	7 1 13	0 0 1	0	0 0 0	17 0 8	113 46 229
Fargo Grand Forks South Dakota: Aberdeen	1 0 1	4 8 0	0	2 1 0	0	0	0	0	0	11 0 2	8
Sioux Falls Nebraska: Omaha	2 4	0 20	3	5 5	0	3	Ŏ O	Ŏ O	0	ō 0	52
Kansas: Topeka Wichita	3 5	6 27	0 2	2 2	8	8	0	0	0	7 7	22 23
SOUTH ATLANTIC Delaware: Wilmington	6	7	0	0	o	0	0	0	o	o	31
Maryland: Baltimore Cumberland	32 1	55 1	0	0	0	22 1	1 0	1 0	0	19 0	252 11
Frederick District of Columbia: Washington	27	19	1	0	0	9	1	0	0	11	147
Virginia: Lynchburg Norfolk Richmond	0 2 8	0 5	0	0	0	0 2 10	0	0	0	200	14
Roanoke West Virginia: Charleston	1	0	0	0	0	1	0	0	0	5	19
Wheeling North Carolina: Raleigh Wilmington	0	0	1	2	0	3 2	0	0	0	2 5 14	22 24 16
Winston-Salem South Carolina: Charleston	1 1	0	0	0	0	0 2	0	0	0	5 2 8	18 29 18
Georgia: Atlanta Brunswick	5	12	4	0	0	3 0	0	0	0	7 0	92 4
Savannah Florida: Miami St. Petersburg	1 0	0	0 -	0	0	1 0	0	0	0	2	21 25
Tampa	0	1	0	0	0	•	1	0	Ò	1	23
Kentucky: Covington Tennessee:	2	1	0	0	0	1	0	0	0	0	25
Memphis Nashville Alabama:	9	13 0	1	0 3	0	8 1	0	0	0	7 0	99 53
Birmingham Mobile Montgomery	0	0 0	6 0 1	0	8	11	0 0	0	8	0	78 23

	Scarle	t fever		Small	lpox		Tube		yphoid	lever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Case re- porte	re	,	culo-	Cases esti- mate	Cases	Deaths re- ported	ing cough,	Deaths, all causes
WEST SOUTH CENTRAL												
Arkansas: Fort Smith Little Rock	1 3	0 1	0 1		0	 -	 <u>-</u>	- 0	0	o	0	
Louisiana: New Orleans Shreveport	7 1	19 1	0 1		0	0	13 0		0	0	0	151 27
Oklahoma: Oklahoma City Tulsa	2 1	0 1	3 2		0	0	1	_ 1	0	0	3 11	32
Texas: Dallas Fort Worth Galveston Houston San Antonio	4 4 0 1 2	18 8 0 7 2	4 2 0 2 0		0 0 0 3 2	0 0 0 0	0 6 1 5 10	1 0 0	0 0 0 0	0 0 0 0	4 0 0 0 0	40 28 16 73 81
MOUNTAIN			•									
Montana: Billings Great Falls Helena Missoula	0 2 0 0	3 26 0	0 1 0 0		0	0000	1 2 0 0	0	0 0 0	0 0 0	0 0 0	9 7 8 7
Idaho: Boise Colorado:	1	0	0		0	0	0	0	0	0	0	-6
DenverPuebloNew Mexico:	15 1	4 1	1 0		0	0	12 0		0 6	8	32 6	76 14
Albuquerque Arizona:	1	1	0		3	0	7	1	1	0	0	20
Phoenix Utah: Salt Lake City.	0	0 7	0 2	10	0	0	2	1	0	0	· 1	13 26
Nevada: Reno	0	2	0		1	0	0		0	0	0	6
PACIFIC									l			
Washington: Seattle Spokane Tacoma Oregon:	10 8 3	23 1 7	3 8 3	2 2 1	8 7 4	0	0	1 0	3 0 0	0	12 12 6	27
Portland Salem California:	6	3	13 1	1	2	0	0	0	8	0	11 11	92
Los Angeles Sacramento San Francisco.	36 3 24	39 7 36	2 1 2		4 3 1	000	31 2 10	0 0 1	0 0 2	0 0 0	17 4 3	251 30 154
		Men	ingococ eningiti	cus	Leth encep	arg hali	ic itis	Pella	agra		yelitis (i paralysis	
Division, State, a	nd city	Case	Dea	ths	Cases	Ďe	aths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
NEW ENGLAN	TD		1									
Massachusetts: Boston Fall River Connecticut:			5 1	3 0	0		0	0	0	0	0	0
Bridgeport Hartford		-	1	8	0		0	0	0	0	0	. 0

	Menin men	gococcus ingitis	Let! encer	nargie shalitis	Pel	lagra	Poliom	yelitis (paralysis	infantile s)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
MIDDLE ATLANTIC									
New York: New York	10	7				١.	٠.		١.
New Jersey: Newark	1	1	4	0	0	1	1	3	0
Pennsylvania: Philadelphia	2	1 1		1 1	0	0			1
Pittsburgh	8	0 5	0	0	0	0	0	0	0
BAST NORTH CENTRAL									
Ohio: Cincinnati	1		0	o	0	0	0	0	,
Cleveland Columbus	5 1	3	0 1	Ŏ 1	Ŏ	ŏ	ŏ	Ŏ	0 0 0
ToledoIndiana:	î	i	ô	Ô	ŏ	ŏ	ŏ	ŏ	ŏ
Indianapolis	6	0	0	0	0	0	0	0	0
Illinois: Chicago	9	5	1	1	0	0	0	0	0
Michigan: Detroit	12	8	0	1	1	o	0	1	0
Flint	2	1	Ŏ	Ō	Ō	ŏ	Ŏ	Õ	ŏ
WEST NORTH CENTRAL									
Minnesota: Duluth	1	o o	o o	0	Q	0	0	0	0
Minneapolis	3 11	0	0	0	0	0	0	0	0
Sioux City	6	2	0		0		0	0	0
Kansas City	2	3	0	0	0	0	ŏ	ŏ	ő
Fargo	0	0	0	1	0	0	0	0	0
SOUTH ATLANTIC									
Maryland: Baltimore	1	1	. 0	1	1	o	0	0	0
West Virginia: Wheeling	1	1	0	o	0	0	0	0	0
North Carolina: Raleigh	0	0	0	o	1	1	0	0	0
Raleigh Wilmington Winston-Salem	0	0	0	0	1 0	0	0	0	0
South Carolina: Charleston 2	0	0	0	0	7	0	0	0	0
Georgia: Atlanta	4	2	0	0	1	1	0	0	0
EAST SOUTH CENTRAL		İ				İ	-		
Tennessee: Memphis	16		0			اه	0	0	0
Nashville	ŏ	ĭ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏį	ŏ
Birmingham Montgomery	0	0	0	0	0	1 0	8	0	0
WEST SOUTH CENTRAL	ľ	ı "	١	١	١:	١,	1	١	·
Arkenses:	.	ا						اء	_
Fort Smith	1	0	0	•	•	٥	0	0	0
New Orleans Shreveport	8	8	0	0	0	8	8	0	0
Oklahoma: Oklahoma City	o	1	0	0	0	0	0	0	0
Texas: Dallas	0	o l	o l	o l	o	1	o l	0	0
Fort Worth	0 1	0 1	0 1	0)	0 }	1 }	0 1	0 1	0

¹ Nonresident.

² Dengue: 2 cases at Charleston, S. C.

	Menin men	gococcus ingitis	Leth encep	nargic halitis	Pell	lagra	Poliom	yelitis (i paralysis	nfantile)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Death s	Cases, esti- mated expect- ancy	Cases	Deaths
MOUNTAIN									
Montana: Missoula Colorado:	1	1	0	0	0	o	0	0	0
Denver	0	1	0	0	0	0	0	0	0
Arisona: Phoenix	0	0	•	0	0	0	0	0	1
Utah: Salt Lake City	4	3	•	0	0	0	0	0	0
PACIFIC									
Washington: Seattle Spokane California:	1 1	0	0	0	0	0	0	0	0
Los Angeles	1 0	2 1	0	0 1	0 1	0	1 0	0	0

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended March 15, 1930, compared with those for a like period ended March 16, 1929. The population figures used in computing the rates are approximate estimates, authoritative figures for many of the cities not being available. The 98 cities reporting cases have an estimated aggregate population of more than 32,000,000. The 91 cities reporting deaths have more than 30,500,000 estimated population.

Summary of weekly reports from cities, February 9 to March 15, 1930-Annual rates per 100,000 population, compared with rates for the corresponding period of 1929 1 DIPHTHERIA CASE RATES

					Week	ended-	*			
	Feb.	Feb.	Feb.	Feb.	Mar.	Mar.	Mar.	Mar.	Mar.	Mar.
	15,	16,	22,	23,	1,	2,	8,	9,	15,	16,
	1930	1929	1930	1929	1930	1929	1930	1929	1930	1929
98 cities	97	121	93	118	2 107 -	121	90	133	3 104	126
New England	95	130	100	117	111	123	84	108	84	135
	83	147	87	139	109	140	89	185	99	159
	115	115	102	106	4 125	131	95	130	135	121
West North Central South Atlantic East South Central West South Central	104	150	93	131	118	135	116	144	108	152
	93	73	110	67	88	64	71	67	99	84
	74	82	108	68	61	55	40	68	27	55
	146	114	86	175	108	145	153	114	120	95
Mountain Pacific	60 87	44 77	69 61	44 106	73	61 72	86 45	61 36	26 73	44 65

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1930 and 1929, respectively.

² South Bend, Ind., and Denver, Colo., not included.

³ Charleston, W. Va., and Savannah, Ga., not included.

⁴ South Bend, Ind., not included.

⁵ Denver, Colo., not included.

Summary of weekly reports from cities, February 9 to March 15, 1980—Annual rates per 100,000 population, compared with rates for the corresponding period of 1929—Continued

MEASURS CASE RATES

_		MEA	sles (CASE	RATES	3				
		•			Week	ended-	•			
	Feb. 15, 1930	Feb. 16, 1929	Feb. 22, 1930	Feb. 23, 1929	Mar. 1, 1930	Mar. 2, 1929	Mar. 8, 1930	Mar. 9, 1929	Mar. 15, 1930	Mar. 16, 1929
98 cities	420	404	456	456	2 548	578	634	537	* 662	679
New England Middle Atlantic. East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain Pacific	432 224 253 793 306 263 743 738 1, 450	541 114 761 983 135 41 50 1,019 164	383 267 269 759 403 681 799 747 1, 483	382 140 883 1, 253 167 0 80 923 145	463 364 4351 920 136 850 755 42,004 1,908	635 158 1, 142 1, 555 197 62 57 697 229	543 440 447 918 489 810 542 2,051 1,845	424 162 983 1, 699 234 62 103 818 142	680 418 476 765 3 449 715 661 2, 386 2, 194	617 135 1, 387 1, 967 380 41 141 636 133
	sc	CARLE	T FEV	ER C	ASE RA	TES				
98 cities	309	277	301	261	2 367	298	329	298	346	324
New England Middle Atlantic East North Central West North Central Bouth Atlantic East South Central West South Central West South Central Mountain Pacific 98 cities	350 246 438 324 231 169 116 412 314	373 222 340 360 157 200 255 87 328 SMAL	374 255 425 321 216 169 101 300 236	292 202 341 373 144 185 270 113 292 CASE	363 325 4513 334 236 196 116 685 411	337 230 402 321 137 219 202 218 493	394 298 452 338 189 196 149 292 281	308 228 411 356 155 198 270 157 410	390 345 466 302 200 108 179 369 267	368 266 418 368 146 232 366 157 444
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	7 0 33 47 8 27 105 34 104	0 0 15 0 2 0 23 70 24	0 0 20 91 2 13 56 17	0 0 15 15 4 0 95 35	0 0 440 89 2 7 120 51 102	2 0 24 15 7 7 107 87 24	2 0 24 78 2 20 67 9 123	0 0 18 6 6 7 95 44 17	0 0 30 68 14 27 26 9	4 0 20 31 6 7 42 17 22
	TY	PHOID	FEVI	ER CA	SE RA	TES				
98 cities	6	5	5	4	18	4	8	5	*6	5
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Pacific	2 6 3 9 7 20 7 0 5	4 4 2 12 6 14 11 0 7	4 7 1 2 13 7 4 9 12	9 4 2 6 4 7 8 0 5	0 4 41 6 55 34 0 50	2 2 0 8 2 14 19 9 7	2 4 3 8 37 13 34 0 7	4 4 3 4 6 7 19 0	4 5 1 4 2 27 7 51 12	2 4 2 2 7 7 11 26 10

South Bend, Ind., and Denver, Colo., not included.
 Charleston, W. Va., and Savannah, Ga., not included.
 South Bend, Ind., not included.
 Denver, Colo., not included.

Summary of weekly reports from cities, February 9 to March 15, 1930—Annual rates per 100,000 population, compared with rates for the corresponding period of 1929—Continued

INFLUENZA DEATH RATES

				Week	ended—				
Feb. 15, 1930	Feb. 16, 1929	Feb. 22, 1930	Feb. 23, 1929	Mar. 1, 1930	Mar. 2, 1929	Mar. 8, 1930	Mar. 9, 1929	Mar. 15, 1930	Mar. 16, 1929
20	54	20	45	2 20	39	17	34	* 14	33
4 15	56 44	16 16	40 35	11 17	20 30	18 13	16 25	2 12	25 31
12	33	12	4.5	15	39	3	21	6	25 31 23 27 37
66	224	81	69 82	59	149	66	75	96	119
34	87	26	133 78 38	134	52	34 34 3	61	17	102 35 16
	15, 1930 20 4 15 18 12 29 66 73	15, 16, 1929 20 54 4 56 118 36 112 33 29 60 66 224 73 1152 34 87	15, 16, 22, 1930 20 54 20 4 56 16 15 44 16 18 36 16 12 33 12 29 60 20 66 224 81 73 152 73 34 87 26	15. 16. 22. 23, 1929 20 54 20 45 4 56 16 40 15 44 16 35 18 36 16 33 12 45 29 60 20 69 66 224 81 82 73 152 73 133 34 87 26 78	Feb. Feb. Feb. Feb. Mar. 15, 16, 22, 23, 1, 1930 1929 1930 1929 1930 20 54 20 45 20 4 56 16 40 11 15 44 16 35 17 18 36 16 33 46 12 45 15 29 60 20 69 26 66 224 81 82 50 73 133 69	Feb. Feb. Feb. Feb. Mar. Mar. Mar. Mar. Mar. Mar. 22. 23. 1, 129. 1929.	15, 16, 1929 1930 1929 1930 1929 1930 1929 1930 1929 1930 1929 1930 1929 1930 1929 1930 17 4	Feb. Feb. Feb. Feb. Mar. 9. 4 56	Feb. Feb. Feb. Feb. Mar. Mar. <th< td=""></th<>

PNEUMONIA DEATH RATES

91 cities	176	222	182	193	³ 198	222	170	203	* 164	184
New England. Middle Atlantic. East North Central. West North Central South Atlantic. East South Central West South Central Mountain Pacific.	177	303	221	233	213	272	202	218	155	200
	202	254	200	192	230	240	191	233	204	197
	129	183	153	170	4 180	180	142	160	128	155
	109	180	151	207	136	228	127	195	142	180
	196	243	203	238	216	255	203	234	183	198
	250	164	272	157	199	284	243	239	265	201
	276	211	188	250	199	207	172	226	153	230
	335	244	240	223	223	279	146	183	120	252
	132	123	83	129	77	148	92	138	80	135

South Bend, Ind., and Denver, Colo., not included.
 Charleston, W. Va., and Savannah, Ga., not included.
 South Bend, Ind., not included.
 Denver, Colo., not included.

FOREIGN AND INSULAR

CANADA

Provinces—Communicable diseases—Week ended March 1, 1930.— The Department of Pensions and National Health reports cases of certain communicable diseases in Canada for the week ended March 1, 1930, as follows:

Province	Cerebro- spinal fever	Influenza	Lethargic encepha- litis	Small- pox	Typhoid fever
Prince Edward Island 1					
Nova Scotia		12			
New BrunswickQuebec					1 26
Ontario	1 1	14	1	8	l ĩ
Manitoba ¹ Saskatchewan		,			
Alberta			1	10	1
British Columbia				ĭ	
`Total	2	26	2	22	30

¹ No case of any disease listed in the table was reported during the week.

Ontario Province—Communicable diseases (comparative)—Four weeks ended February 22, 1930.—The following table shows the number of cases of certain communicable diseases, with deaths therefrom, reported in the Province of Ontario, Canada, for the four weeks ended February 22, 1930, as compared with the corresponding period of 1929:

-	1	930	1929		
Disease	Cases	Deaths	Cases	Deaths	
Cerebrospinal meningitis	4	5	10	5	
Chancroid Ohicken pox Conjunctivitis	795	2	563		
Diphtheria Erysipelas	8	13	273	7	
German measles Goiter	1		26 3	<u>1</u>	
Gonorrhea Influenza Lethargic encephalitis	111 68	13	164 509	100	
Measles Mumps	1, 605 102	2	3, 521 548	6	
Paratyphoid fever		211	1	228	
Poliomyelitis	905	3	465	3	
Septic sore throat Smallpox ¹	2 77	i	1 1 133		
SyphilisTuberculosis	169 101	52	131 114	56	
Typhoid fever. Undulant fever. Whooping cough.	27 2	1	87	3 2	
A monthing confin	380		386	2	

¹ The cases of smallpox for February, 1930, were reported in the following municipalities: Napean, 10, Sudbury, 16; Woodstock, 1; Alfred, 8; North Bay, 1; Ottawa, 7; Thurlow, 3; East Ferris, 5; Fort William, 4; Welland, 1; Himsworth, N., 1, Chapman, 1; Calvin, 1; Magnetawan, 4; Trenton, 3; Sturgeon Falls, 6; Dummer, 5.

Quebec Province—Communicable diseases—Week ended March 15, 1930.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended March 15, 1930, as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis Chicken pox Diphtheria German measles Influenza Measles Mumps	3 99 38 18 2 168 169	Poliomyelitis. Puerperal septicemia. Scarlet fever. Tuberculosis. Typhoid fever. Whooping cough.	1 3 131 77 7 121

Quebec Province—Vital statistics—December, 1929.—Births, deaths, and marriages for the month of December, 1929, in the Province of Quebec, Canada, with deaths from certain principal causes, are shown in the following table:

Estimated population	2, 691, 000	Deaths from—Continued.	
Births	6, 682	Heart disease	349
Birth rate per 1,000 population	29. 2	Influenza	83
Deaths	3, 010	Lethargic encephalitis	1
Death rate per 1,000 population	13.8	Measles	26
Marriages	1, 181	Pneumonia	318
Deaths under 1 year		Scarlet fever	22
Deaths under 1 year per 1,000 births	109. 7	Syphilis	9
Deaths from—		Tuberculosis (pulmonary)	228
Cancer	157	Tuberculosis (other forms)	37
Cerebrospinal meningitis	3	Typhoid fever	8
Diabetes	34	Violence	87
Diarrhea	103	Whooping cough	32
Diphtheria	57	-	

CHINA

Meningitis.—During the week ended March 15, 1930, 20 cases of meningitis were reported in Shanghai, China.

GREAT BRITAIN

England and Wales—Vital statistics—October—December, 1929.—During the fourth quarter of the year 1 29, 150,496 births and 112,712 deaths were registered in England and Wales, giving a birth rate, on an annual basis, of 15.1 per 1,000 population, and a death rate of 11.3 per 1,000. The figures are provisional. The mortality of infants under 1 year of age was 69 per 1,000 live births.

During the 13 weeks ended December 28, 1929, deaths from certain communicable diseases were reported in 107 county boroughs and great towns, including Greater London, as follows:

Disease	Deaths	Deaths per 1,000 popula- tion	Disease	Deaths	Deaths per 1,000 popula- tion
Diarrhea and enteritis (under 2 years)	1, 225 574 687 315	0. 12 . 14 . 06	Scarlet fever	106 3 54 237	0. 02

Deaths from certain communicable diseases were reported in 157 smaller towns for the quarter ended December 31, 1929, as follows:

Disease	Deaths	Disease	Deaths
Diarrhea and enteritis (under 2 years)	147 92 187 75	Scarlet fever Typhoid fever Whooping cough	26 21 53

England and Wales—Communicable diseases—Thirteen weeks ended December 28, 1929.—During the 13 weeks ended December 28, 1929, cases of certain communicable diseases were reported in England and Wales, as follows:

Disease	Cases	Disease	Cases
Diphtheria Ophthalmia neonatorum Pneumonia Puerperal fever	1, 230 13, 978	Puerperal pyrexia Scarlet fever Smallpox Typhoid fever	1, 386 42, 142 2, 432 905

England and Wales—Birth and death rates—Year 1929.—The following birth and death rates for England and Wales are taken from a report issued by the Registrar General. The rates for London and the groups of towns are for civilians only. The figures are provisional.

	Rate per 1,000 population							
Place		D-45-	Deaths from—					
1100	Births	Deaths, all causes	Diph- theria	Influ- enza	Measles	Ty- phoid fever	Vio- lence	Whoop- ing cough
England and Wales	16. 3	13. 4	0.08	0.74	0.08	0. 01	0. 55	0.15
including London	16.6 16.0 15.7	13. 7 12. 3 13. 8	.09 .07 .08	.76 .71 .69	. 12 . 06 . 04	.01 .01 .01	. 50 . 45 . 56	. 19 . 15 . 26

Scotland—Vital statistics—Quarter ended December 31, 1929.—The Registrar General of Scotland has published the following statistics for the fourth quarter of the year 1929:

Population, estimated	4, 896, 600	Deaths from—Continued.	
Births	21, 998	Influenza	23
Birth rate per 1,000 population	17.8	Lethargic encephalitis	- 24
Deaths	15, 353	Malaria	1
Death rate per 1,000 population	12.4	Measles	` 96
Marriages	8, 447	Nephritis (acute)	56
Deaths under 1 year	1, 768	Nephritis (chronic)	451
Deaths under 1 year per 1,000 births	80	Paratyphoid fever	2
Deaths from—		Pneumonia	735
Anthrax	1	Poliomyelitis	9
Bronchitis	740	Puerperal sepsis	59
Broncho-pneumonia	505	Scarlet fever	39
Cerebrospinal meningitis	40	Syphilis	22
Diabetes	146	Tetanus	2
Diarrhea	64	Tuberculosis (pulmonary)	690
Diphtheria		Tuberculosis (other forms)	206
Dysentery	3	Typhoid fever	6
Erysipelas	38	Whooping cough	81
Heart disease	2, 159		

Scotland—Vital statistics—Year, 1929.—The following statistics are taken from a report of the Registrar General of Scotland and show the number of births, marriages, and deaths registered in Scotland for the year 1929, together with the rate per 1,000 estimated population:

	Total number	Rate per 1,000 pop- ulation	Total number	Rate per 1,000 pop- ulation
Births	92, 876 32, 992	19. 0 6. 8	70, 917 8, 058	14. 5

Deaths under 1 year per 1,000 births, 86.7.

IRELAND

Irish Free State—Vital statistics—Year 1929.—The following summary of births and deaths in the Irish Free State for the year 1929 is taken from a report issued by the Registrar General. The principal causes of death, including deaths from communicable diseases, are as follows:

Estimated population	2, 971, 992	Deaths from-Continued.	
Births	58, 342	Influenza	1, 629
Birth rate per 1,000 population	19.8	Measles	134
Deaths	42, 974	Scarlet fever	60
Death rate per 1,000 population	14. 6	Tuberculosis (pulmonary)	3, 034
Deaths from:		Tuberculosis (other forms)	740
Cancer	3, 016	Typhoid fever	78
Diarrhea and enteritis (under 2 years)	544	Typhus fever	8
Diphtheria	292	Violence	924
Dysentery	5 1	Whooping cough	378

ITALY

Communicable diseases—Four weeks ended October 27, 1929.— During the four weeks ended October 27, 1929, communicable diseases were reported in the Kingdom of Italy as follows:

	Sept. 3	0-Oct. 6	Oct	. 7–13	Oct.	14-20	Oct.	21-27
Disease	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected
Anthrax Oerebrospinal meningitis Chicken pox Diphtheria and croup Dysentery Lethargic encephalitis Measles Pollomyalitis Scarlet fever Typhoid fever	93 7 52 641 50 2 541 38 616 1,906	61 5 29 340 25 2 165 28 220 784	51 6 76 548 34 2 653 42 515 1,146	39 6 30 284 14 2 117 24 200 519	48 8 102 791 34 2 1,050 28 686 1,383	31 82 379 18 2 189 21 239 605	29 3 82 657 18 1 696 13 488 892	25 3 50 328 14 1 154 13 212 472

JAMAICA

Communicable diseases—Four weeks ended March 1, 1930.—During the four weeks ended March 1, 1930, cases of certain communicable diseases were reported in Kingston, Jamaica, and in the Island of Jamaica outside of Kingston, as follows.

Disease	Kings- ton	Other localities	Disease	Kings- ton	Other localities
Cerebrospinal meningitis	1 7 3	57 1 3 3	Puerperal fever Scarlet fever Tuberculosis Typhoid fever	2 30 14	1 2 53 86

MEXICO

Vera Cruz—Communicable diseases—Six weeks ended March 8, 1930.—During the six weeks ended March 8, 1930, deaths from certain communicable diseases were reported in Vera Cruz, Mexico, as follows:

			Week	ended—			
Disease	Feb. 1, 1930	Feb. 8, 1930	Feb. 15, 1930	Feb. 22, 1930	Mar. 1, 1930	Mar. 8, 1930	Total
Bronchitis	1		2	2	1	1	. 5
Gastro-intestinal disorders Epilepsy	10	8	3	7	8	8	44
Hookworm disease	<u>i</u>	1	3	2		1	7
Tetanus Tuberculosis	- 7	1 6	3 7	<u>2</u>	1 5	1 1 10	12 3 39
Typhoid fever	1						. 1

PANAMA CANAL ZONE

Communicable diseases—November-December, 1929.—During the months of November and December, 1929, certain communicable diseases, including imported cases, were reported in the Panama Canal Zone and terminal cities as follows:

2	Nov	ember	Dece	mber
Disease	Cases	Deaths	Cases	Deaths
Cerebrospinal meningitis			2	
Chieken pox	47		30	
Diphtheria	42		29	
Dvantery (smebic)	1 3	3	l i	
Dysentery (bacillary)	l ī	l	_	'
Malaria	118	4	144	
Measles	8	I	6	1 1
Mumps	4		ž	
Pneumonia.		27		2
Poliomyelitis			i	-
Scarlet fever			1	
L'uberculosis		27	l	2
Typhoid fever	2	2	i	
Whooping cough	ā		17	

VIRGIN ISLANDS

Communicable diseases—February, 1930.—During the month of February, 1930, cases of certain communicable diseases were reported in the Virgin Islands as follows:

St. Thomas and St. John:	Cases	St. Croix:	Cases
Syphilis		Chicken pox	9
Tuberculosis	1	Mumps	

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

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries to make a regard to the particular countries for whole reports are given.

CHOLERA

C indicates cases: D. deaths: P. present

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

CHOLERA—Continued

[O indicates cases; D, deaths; P, present]

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

PLAGUE

[O indicates cases; D, deaths; P, present]

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Sao Paulo.¹ British East Africa (see also table below): Uganda C Ceylon:	343 343 3	336 310	262	24.0	. 1 883 1	33	677	28 80	ងដ	202		010			+ + +		
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Plague-infected rodents			-			63	7							-	_		

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

PLAGUE-Continued

[O indicates cases; D, deaths; P, present]

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

SMALLPOX

[C indicates cases; D, deaths; P, present]

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

SMALLPOX-Continued

[C indicates cases: D. deaths: P. present]

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1 Newspaper reports of Feb. 4 show an epidemic of smallpox in Ionscatepec, Morelos State, Mexico, and vicinity, giving 600 deaths in preceding 2 weeks. 1 On Feb. 1, 1930, 317 cases of smallpox with 102 deaths were reported to that date in the Sarangani and Balut Islands.

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

SMALLPOX-Continued

[C indicates cases; D, deaths; P, present]

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S. B. Karos, at Zanathar. S. S. Taipikn, at Manila, from Australia. S. S. Umvuma, at Cape Town, from London	9												$\dagger \dagger \dagger$	$\frac{1}{111}$	\boxplus	

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

TYPHUS FEVER

[O indicates cases; D, deaths; P, present]

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Calto. Databileh D	»		Tİ				-	<u></u>								
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Greece (see table below). Iraq: Baghdad Liva.		•	-			<u> </u> 	-									
D Ireland (Irish Free State): Donegal County—Dunfanaghy C		Ħ				.	<u> </u>	\parallel			Ш	Ш				

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Latvia (see table below). Lithuania (see table below). Menico. Menico City, including municipalities in Federal district O				4					8	4	4				;
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Yugoslavia (see table below).		_													

¹ Press reports show that 10 deaths from typhus fever occurred in Sao Paulo, Brazil, from Nov. 3 to 30, 1929.

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Place	Chosen: Seoul Cachoslovakia C Czechoslovakia C Prance C Cachoslovakia C Latvia C Lithuania C

YELLOW FEVER

During the month of September, 1929, cases of yellow fever were reported as follows: Nictheroy, Brazil, 1 case; Rio de Janeiro, Brazil, 2 cases; Monrovia, Liberia, 1 case.