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INFLUENZA PREVALENCE IN THE UNITED STATES

A comparison of reports of the cases of influenza for the weeks ended January 5 and January 12, 1929, indicates that the number of cases is decreasing in all parts of the country except in the West South Central States, in the northerly portion of the South Atlantic States, and in the Northeast.

The peak of the epidemic appears to have been passed in the Pacific States during the week ended December 8, 1928; in the Mountain and West North Central States, December 15; in the East North Central States, December 29; in the East South Central States and the South Atlantic States during the week ended January 5, 1929. The West South Central, Middle Atlantic, and New England States had not reported any decline in the number of cases to January 12, 1929.

The following table shows the total numbers of cases reported in each State from October 14, 1928, to January 12, 1929, inclusive. States from which no reports were received are omitted from the table.

New England:	Cases	South Atlantic-Continued	Cases
Maine	1, 519	West Virginia	30, 181
New Hampshire	188	South Carolina	46, 205
Vermont	254	Georgia	38, 888
Massachusetts	3, 128	Florida	2, 721
Rhode Island	432	East South Central:	
Connecticut	3, 266	Kentucky	40, 038
Middle Atlantic:		Tennessee	45, 498
New York City	4, 317	Alabama	48, 050
New Jersey	5, 331	Mississippi	50, 735
East North Central:	· · · · ·	West South Central:	
Ohio	19, 463	Arkansas.	. 14, 513
Indiana	9, 729	Louisiana	12,071
Illinois	10,989	Oklahoma	31,650
Michigan	29,087	Texas	14, 147
Wisconsin	31,947	Mountain:	
West North Central:		Montana	17, 465
Minnesota	4, 696	Idsho	191
Iowa1	113, 550	W yoming	1,350
Missouri	39, 963	Colorado	6, 267
North Dakota	33, 634	New Mexico	6,578
South Dakota	832	Arizona	4.584
Nebraska	. 7,009	Utah	871
Kansas.	117, 642	Pacific:	
South Atlantic:		Washington	3, 1 0 6
Delaware	418	Oregon	9, 821
Maryland	11, 255	California	45, 904
District of Columbia	1, 746	·	
Virginia *	40, 000	Total	927

Includes 112,000 cases estimated, covering 2 weeks. Owing to the incomplete reporting of cases, estimates can not be fairly compared with reports of cases notified.

² Estimate, for 1 week only.

In last week's PUBLIC HEALTH REPORTS, data were presented in tabular form on the mortality of the present influenza outbreak in a group of cities classified according to the geographic divisions of the United States. The mortality data were presented in the form of the excess annual death rates from influenza and pneumonia per 100,000 population, the rates being given by weeks for the period from the first week of November, when the outbreak first manifested itself in an increased mortality on the Pacific Coast, to the week ended January 5, 1929.

Considering all cities together, the excess annual rate for the week ended January 12 was 426, as against 392 for the preceding week. This increase is much less than the increase that occurred in the preceding week and suggests that for the country as a whole the mortality is nearing the peak of the epidemic. It should be noted, however, that, considered in terms of the excess of influenza and pneumonia deaths over the normal seasonal expectancy, the mortality of these cities (about 60) of the United States had not on January 12 begun to decline.

In Figure 1 the excess influenza and pneumonia death rates are shown graphically up to the week ended January 12, 1929.

Up to January 12, the highest mortality for any single week occurred in the cities of the East South Central section, which cities showed an annual excess rate of 1,628 for the week ended January 12. The cities of the Mountain region showed the next highest rate, an excess annual rate of 1,148 per 100,000 for the week ended December 15. By January 12 the excess rate in this region had declined to 126, or almost back to the normal rate. The rate in the Pacific Coast cities is likewise about back to normal. The highest excess annual rate in the Pacific division was 458, experienced in the week ended December 8, less than half of the highest rate in the Mountain cities and less than a third of the rate in the East South Central cities.

In the West South Central cities the maximum excess annual mortality rate thus far experienced in the present outbreak was 821 per 100,000 during the week ended January 12. This rate is only slightly above the rate for the preceding week, suggesting that the mortality in this section has about reached its peak.

In the West North Central and the East North Central cities, the peak of influenza and pneumonia mortality has apparently been reached during the weeks ended December 29 and January 5, respectively. The excess rate in the peak week was less in the West North Central cities than in any division which had, up to January 12, definitely passed the peak. The rate in the peak week in the East

¹ From the Office of Statistical Investigations, United States Public Health Service.



FIG. 1.—Excess mortality from influenza and pneumonia per 100,000 population in cities of various geographic sections of the United States. (Excess over mean of rates in three to four non-epidemic years.)

North Central cities was 567, or somewhat higher than the peak of the Pacific cities.

In the South Atlantic, Middle Atlantic, and New England cities the excess mortality had not yet reached large proportions, the highest mortality to date occurring in the week ended January 12. There is, however, in every case, a definite rise in recent weeks, with indications that the outbreak has started in those sections. Whether the mortality in these sections will shortly return to normal or whether higher peaks will be reached can not be predicted; but a comparison of these curves with those of the other sections suggests that the peaks of mortality had not been reached on January 12 in these three eastern sections of the United States.

EXCESS MORTALITY IN INDIVIDUAL CITIES

Excess mortality rates from influenza and pneumonia were shown in last week's PUBLIC HEALTH REPORTS for about 50 of the larger cities for the weeks ended October 6, 1928, to January 5, 1929, inclusive. In the following cities of that group the excess mortality for the week ended January 12 was greater than that of the preceding week: Albany, Baltimore, Birmingham, Boston, Bridgeport, Buffalo, Cleveland, Columbus, Fall River, Grand Rapids, Mich.; Jersey City, Louisville, Milwaukee, Minneapolis, Nashville, New Haven, New York, Newark, Paterson, Providence, Richmond, Rochester, St. Louis, Syracuse, Washington, and Worcester.

The greatest increases occurred in Birmingham (1,712 to 3,227) and Nashville (330 to 1,366). Among the cities still showing very high excess annual mortality rates per 100,000 from influenza and pneumonia on January 12 were Birmingham (3,227), Cincinnati (1,009), Columbus (1,114), Nashville (1,366), and Pittsburgh (1,071).

In the following cities the excess mortality was less during the week ended January 12 than during the preceding week: Atlanta, Cambridge, Chicago, Cincinnati, Denver, Des Moines, Detroit, Indianapolis, Kansas City, Mo., Los Angeles, Lowell, New Orleans, Oakland, Omaha, Philadelphia, Pittsburgh, Portland, San Francisco, Seattle, Spokane, St. Paul, and Toledo.

The largest decrease occurred in Pittsburgh, where the excess annual rate fell from 2,169 in the preceding week to 1,071 during the week ended January 12. Among the cities that have had high excess annual rates and have now declined to fairly low rates are Atlanta (18), Denver (209), Des Moines (93), Kansas City, Mo. (88), Los Angeles (208), Omaha (-46).

ROCKY MOUNTAIN SPOTTED FEVER

A Preliminary Report on the Weil-Felix Reaction

By A. L. KERLEE,¹ Bacteriologist, United States Public Health Service, and R. R. SPENCER, Surgeon, United States Public Health Service

Kelly ² tested the sera from nine cases of Rocky Mountain spotted fever occurring in California, using as antigens a fresh agar culture and a formalized suspension of a strain of *B. proteus* X_{19} obtained from the Hygienic Laboratory at Washington. Eight of these sera did not agglutinate the organism. The serum of one patient, however, taken during the third or fourth week of the disease gave a positive agglutination in a dilution of 1: 400 when "the first 24-hour transplant from a stock culture" was employed as antigen. The same specimen of serum gave negative results two days later against "a 24-hour agar culture, a 24-hour glucose agar culture, and a formalized antigen."

So far as we are aware Kelly was the first to perform the Weil-Felix reaction with Rocky Mountain spotted fever sera; and while he recognized his series of tests were not large, he felt that his results suggested "that the Weil-Felix reaction is negative in Rocky Mountain spotted fever and may be of value in differentiating between this disease and typhus fever."

Kelly's observations seemed to support the view held by many regarding the agglutination of *B. proteus* X_{19} in typhus sera, namely, that the reaction was a specific one for typhus fever.

The tests recorded herewith show that strains of B. proteus X 19 are agglutinated by the sera of experimental animals and patients suffering from Rocky Mountain spotted fever.

Altogether three strains of *B. proteus* X_{19} were used. The Hygienic Laboratory strain No. 271 has been fully tested for sensitivity against the endemic typhus occurring in the southern United States by Maxcy and has been used extensively for diagnostic purposes. The other two strains used were the Kingsbury strain and the Warsaw strain both obtained from Fletcher³ of Kuala Lumpur, Federated Malay States. Strain No. 271 and the Warsaw strain are indologenic, while the Kingsbury strain does not produce indol.

Concentrated antigens were prepared with 0.1 per cent formalin, so that when diluted for use to a turbidity comparable to 500 parts per million of a silica standard the concentration of formalin would be negligible and interference with the reaction reduced to a minimum.

¹ A. Leroy Kerlee died February 14, 1928, from Rocky Mountain spotted fever contracted in line of duty at the field laboratory of the U. S. Public Health Service located at Hamilton, Mont.

² Kelly, F. L.: Weil-Felix Reaction in Rocky Mountain Spotted Fever. Jour. Inf. Dis., vol. 32, No. 3, March, 1923, pp. 223-225.

³ Fletcher, W., and Lesslar, J. E.: Tropical Typhus in the Federated Malay States. Bull. No. 2 of 1925, Institute for Medical Research, Kuala Lumpur, Federated Malay States.

TEST I (GUINEA PIGS)

A series of 12 guinea pigs were inoculated intraperitoneally with Rocky Mountain spotted fever blood virus on September 15, 1927. Beginning on the first day on which any of the animals showed an elevation of temperature (September 19), and each day thereafter until the fourteenth day after inoculation, about 1 cubic centimeter of blood was drawn from all surviving guinea pigs by heart puncture with a very small needle. Blood was also taken on the nineteenth, the twenty-fourth, and the twenty-ninth days after inoculation. Only four animals lived through the entire course. At no time was a positive test recorded for any of these animals, although all of them developed typical lesions of Rocky Mountain spotted fever. All sera were tested against the Hygienic Laboratory strain No. 271 (the same as that used by Kelly) and the Kingsbury strain of *B. proteus* X_{19} .

TEST II (RABBITS)

A series of seven rabbits were inoculated intraperitoneally with 1 cubic centimeter of blood virus. Four days later blood was drawn from the ear vein of each, as well as on each succeeding day until the ninth, at which time the temperature of all rabbits had again become normal. Blood was also taken on the fourteenth, nineteenth, and twenty-fourth days after onset.

These sera were tested against two antigens; namely, one prepared from the Kingsbury strain and one from the Warsaw strain. For this reason the rabbit and the guinea pig tests are not entirely comparable.

Day after onset of dis-	Cen .			F	tab (bit dilu	No. tio	3083 1)				F	tab (bit dilu	No	. 3034 n)	1		Rabbit No. 3035 (dilution)						
6886	Antig	20	40	80	160	320	640	1, 280	2, 560	20	40	80	160	320	640	1, 280	2, 560	20	40	80	160	320	640	1, 280	2, 560
1 2 3 4 5 6 7 8 9 14 19	8M3N3N3N8N8N8N8N8N8N8N8	<u> </u>	╹ ┃ ┃ + + + + + + + + + + + + + + + + + + + + + +		111111111115+1++1111	111111111111111111111111111111111111111				++++++ + + + +	+ + + + + + + + + + +	+++ + + + + + + +						+++ + + + + + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + + +		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
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TABLE 1.—Results of tests on three rabbits

Symbols: K = Kingsbury antigen; W = Warsaw antigen; f = Complete agglutination; t = Partial agglutination; tr = Trace.

Table 1 records the tests carried out on three of the seven rabbits selected at random and shows a definite increase in agglutinins in these rabbits, reaching a maximum on the ninth day. The other rabbits, which are not recorded, also showed an increase in titer of their sera in about the same degree. The period of incubation of the disease in rabbits was about four to five days, so that the maximum titers actually occurred about two weeks after inoculation, which is about the same as observed in typhus fever. Sera from control rabbits never gave a positive test at any time.

TEST III (HUMAN)

As human controls, the sera from 43 university students who had never had spotted fever or typhus fever were tested for agglutination titer against the Kingsbury and the Hygienic Laboratory strains of *B. proteus* X_{19} . None of these sera gave a positive result. This test was made before we obtained the Warsaw strain.

Table 2 gives the results of tests on eight sera from spotted-fever patients against the Hygienic Laboratory strain of *B. proteus* X_{19} . Four were also tested against the Kingsbury antigen.

		Anti-		Dilution						
No.	Patient data	gen	20	40	80	160	320	640	1,280	2,560
1 2 3 4 5 6 7 8	 J. P.: First week of convalescence. E. T. S.: Eighteenth day after onset—early convalescence. D. H.: Eleventh day of illness. J. W.: Fitzeenth day of illness. A. M. C.: Spotted fever in August, 1926. Blood taken Sept. 20, 1927. M. I. N.: Spotted fever in April, 1927. Blood taken Sept. 20, 1927. J. McN.: Spotted fever in April, 1927. Blood taken Sept. 20, 1927. J. T. B.: Blood taken seventh day of illness. Blood taken fourteenth day of illness during early convalescence. Blood taken 2 months and 7 days after onset. 	H. L. L. H. L. L. H. H. L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L. H. K.L.	* *** + ** + *+*	* *** + ** + *+*	+ +++++++++++++++++++++++++++++++++++++	+ +++++++++++++++++++++++++++++++++++++	+ +++++++++++++++++++++++++++++++++++++	*** *+ + *	- +++11++11++111	+

TABLE 2.—Results of tests on eight sera from spotted-fever patients

Symbols: H. L.=Hygienic Laboratory antigen; K=Kingsbury antigen; f=Complete agglutination; +=Partial agglutination.

DISCUSSION

It will be noted that the serum from patient No. 8 (Table 2) was tested on the seventh and fourteenth days after onset and again after complete recovery. This serum showed an increase in titer from the seventh to the fourteenth day. Sera Nos. 5 and 6 showed the presence of agglutinins more than a year after onset of illness, which suggests that agglutinins persist longer in the sera of spottedfever patients than has been commonly observed in typhus fever. Our results with the sera of Rocky Mountain spotted fever infected animals coincide with those obtained by others in the study of experimental typhus in that rabbits produce agglutinins for *B. proteus* X_{19} and guinea pigs do not.

In view of the clinical similarity of typhus fever and Rocky Mountain spotted fever, and the high titers obtained in our tests, we believe the finding of a positive agglutination in Rocky Mountain spotted fever is not accidental. While Kelly obtained a single positive test which could not be repeated, our tables show that the agglutinin content of the sera of both rabbits and man increases as the disease progresses and then decreases during convalescence. Such a result is strong additional evidence of relationship between the disease process and the agglutinin reaction.

SUMMARY

1. The sera from guinea pigs inoculated with Rocky Mountain spotted fever virus did not agglutinate two strains of *B. proteus* X_{19} .

2. Sera from rabbits similarly inoculated with spotted fever virus showed a definite increase in agglutinin content reaching a maximum titer on the ninth day after onset of symptoms, or the fourteenth day after inoculation.

3. The sera of human patients taken during the course of the disease and during convalescence showed the presence of agglutinins for two strains of *B. proteus* X_{19} .

THE NOTIFIABLE DISEASES IN STATES DURING 1927

Summary

The summary, published herewith, of the reported prevalence of communicable diseases in States during 1927 is taken from Supplement No. 73, which will soon be issued by the Public Health Service. The rates have been compiled from data furnished by the health officers of the several States, the District of Columbia, and the insular possessions. The following list of diseases is included in the supplement:

Anthrax in man.	Meningococcus meningitis.
Chicken pox.	Mumps.
Cholera.	Pellagra.
Dengue.	Plague (human.)
Diphtheria.	Pneumonia (all forms).
Gonorrhea.	Poliomvelitis.
Influenza.	Rabies in animals.
Lethargic encephalitis.	Rabies in man.
Malaria.	Rocky Mountain spotted fever.
Measles.	Scarlet fever.

Septic sore throat.	Typhoid fever.
Smallpox.	Typhus fever.
Syphilis.	Undulant fever.
Tuberculosis (all forms and respiratory	Whooping cough.
system).	Yellow fever.
Tularæmia.	

For most of the diseases four tables are given: (1) Estimated expectancy, (2) morbidity, (3) mortality, and (4) morbidity, mortality, and case fatality rates.

The estimated expectancy represents an attempt to ascertain from the experience of recent years how many cases of the disease under consideration might have been expected in 1927.

In comparing the figures for 1927 with the estimated expectancy, or with reports for preceding years, it should be borne in mind that there has been a gradual improvement in the reporting of communicable diseases during the last few years. An increase in the number of cases reported may be due to better reporting of the particular disease rather than to an increase in the number of cases occurring.

In some instances comparatively large numbers of cases of diseases reported in certain States may be due to the system of reporting rather than to unusual prevalence of the diseases. For instance, in Mississippi physicians report some diseases monthly to the State health officer, giving the number of cases occurring in their practice during the month.

Similar tabulations of reported cases and deaths from communicable diseases, have been issued by the United States Public Health Service for the years 1912 to 1926, inclusive.

As long as the supply lasts, copies of this supplement may be had free, on request, by subscribers of Public Health Reports and others desiring them. Address The Surgeon General, United States Public Health Service, Washington, D. C.

EUMMARY OF NOTIFIABLE DISEASES IN STATES, 1927

CHICKEN POX

Cases reported, 1927 (population 118,105,000)	217, 316
Estimated expectancy, based on years 1922–1926	166, 453
Cases per 1,000 inhabitants, 1927	1.84
Cases per 1,000 inhabitants, estimated expectancy	1.47
44 States: 1	
Deaths registered, 1927 (population 112,751,000)	151
Deaths per 1,000 inhabitants, 1927	0. 001
Cases reported for each death registered, 1927	1, 382. 65

* The District of Columbia is also included.

47 States: 1

47 States: 1

DIPHTHERIA

Cases reported, 1927 (population 118,105,000)	106, 191
Estimated expectancy, based on years 1920-1926	134, 777
Cases per 1,000 inhabitants, 1927	0. 90
Cases per 1,000 inhabitants, estimated expectancy	1. 21
45 States: 1	
Deaths registered, 1927 (population 114,542,000)	8, 683
Deaths per 1,000 inhabitants, 1927	0. 08
Deaths per 100 cases, 1927	8. 30

GONORRHEA

Cases reported, 1927 (population 102,777,000)	143, 454
Cases per 1,000 inhabitants, 1927	1. 40

INFLUENZA ·

45 States: 1

39 States :

Deaths registered, 1927 (population 114,542,000)	24, 241
Deaths per 1,000 inhabitants, 1927	0. 21

MEASLES

46 States: 1	
Cases reported, 1927 (population 117,391,000)	441, 349
Estimated expectancy, based on years 1920-1926	334, 105
Cases per 1,000 inhabitants, 1927	3. 76
Cases per 1,000 inhabitants, estimated expectancy	3. 02
45 States: 1	
Deaths registered, 1927 (population 114,542,000)	4, 122
Deaths per 1,000 inhabitants, 1927	0. 04
44 States: 1	
Deaths registered, 1927 (population 113,828,000)	4, 096
Deaths per 1,000 inhabitants, 1927	0. 04
Deaths per 100 cases, 1927	0.94

MUMPS

41 States:	
Cases reported, 1927 (population 102,686,000)	122. 474
Estimated expectancy, based on years 1922-1926	63, 288
Cases per 1,000 inhabitants, 1927	1. 19
Cases per 1,000 inhabitants, estimated expectancy	0. 63
42 States:	•
Deaths registered, 1927 (population 109,131,000)	100
Deaths per 1,000 inhabitants, 1927	0. 001
38 States:	
Deaths registered, 1927 (population 98,103,000)	86
Deaths per 1,000 inhabitants, 1927	0.001
Cases reported for each death registered, 1927	1, 337. 99
PELLAGRA	

18 States:1 Cases reported, 1927 (population 53,282,000) 22,080 86 States:1 Deaths registered, 1927 (population 105,800,000) 5,843 Deaths per 1,000 inhabitants, 1927 0.06

¹ The District of Columbia is also included.

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PNEUMONIA (ALL FORMS)

45 States:1	
Deaths registered, 1927 (population 114,542,000)	92 , 12 7
Deaths per 1,000 inhabitants, 1927	0.80

POLIOMYELITIS

45 States: ¹	
Cases reported, 1927 (population 113,722,000)	10, 151
Estimated expectancy, based on years 1920-1926	3, 043
Cases per 1,000 inhabitants, 1927	0. 089
Cases per 1,000 inhabitants, estimated expectancy	0. 028
45 States: ¹	
Deaths registered, 1927 (population 114,542,000)	2, 146
Deaths per 1,000 inhabitants, 1927	0. 019
Deaths per 100 cases, 1927	20. 990

SCARLET FEVER

47 States: ¹	
Cases reported, 1927 (population 118,105,000)	208, 893
Estimated expectancy, based on years 1920-1926	172, 887
Cases per 1,000 inhabitants, 1927	1. 77
Cases per 1,000 inhabitants, estimated expectancy	1.55
45 States:1	
Deaths registered, 1927 (population 114,542,000)	2, 374
Deaths per 1,000 inhabitants, 1927	0. 02
Deaths per 100 cases, 1927	1.15

SMALLPOX

46 States:1	
Cases reported, 1927 (population 115,567,000)	36, 315
Estimated expectancy, based on years 1920-1926	39, 090
Cases per 1,000 inhabitants, 1927	0. 31
Cases per 1,000 inhabitants, estimated expectancy	0.36
45 States:1	
Deaths registered, 1927 (population 114,542,000)	165
Deaths per 1,000 inhabitants, 1927	0. 001
Deaths per 100 cases, 1927	0.48

SYPHILIS

Cases	reported,	1927	(population	102,854,000)	 170, 3	22
Cases	per 1,000	inhal	oitants, 1927		 1.	66

TUBERCULOSIS (ALL FORMS)

44 States:1

40 States:

	Deaths registered, 1927 (population 114,465,000)	89, 014
•	Deaths per 1,000 inhabitants, 1927	0, 778

TUBERCULOSIS (RESPIRATORY SYSTEM)

43 States:1	
Deaths registered, 1927 (population 110,596,000)	76 , 70 6
Deaths per 1,000 inhabitants, 1927	0.694

* The District of Columbia is also included.

AC Chatant

TYPHOID FEVER

40 Diales: •	
Cases reported, 1927 (population 115,680,000)	34, 411
Estimated expectancy, based on years 1920-1926	36, 724
Cases per 1,000 inhabitants, 1927	0. 30
Cases per 1,000 inhabitants, estimated expectancy	0. 34
45 States: ¹	
Deaths registered, 1927 (population 114,542,000)	6, 480
Deaths per 1,000 inhabitants, 1927	0. 06
Deaths per 100 cases, 1927	19. 91

WHOOPING COUGH

47 States:1 Cases reported, 1927 (population 118,105,000) 178, 455 Estimated expectancy, based on years 1922–1926 146, 706 Cases per 1,000 inhabitants, 1927 1. 51 Cases per 1,000 inhabitants, estimated expectancy 1. 30 45 States:1 7, 220 Deaths registered, 1927 (population 114,542,000) 7, 220 Deaths per 1,000 inhabitants, 1927 0. 06 Cases reported for each death registered, 1927 24, 48

DEATH RATE IN A GROUP OF INSURED PERSONS Rates for Principal Causes of Death, November, 1928

The accompanying table is taken from the Statistical Bulletin for December, 1928, issued by the Metropolitan Life Insurance Co., and presents the mortality record of the industrial insurance department of the company, by principal causes of death, for November, 1928, as compared with October, 1928, and with November, 1927. The rates are based on a strength of approximately 18,500,000 insured persons in the United States and Canada.

The Bulletin states:

The November death rate among the industrial populations of the United States and Canada, was 8.2 per 1,000. This is well below the average mortality figure for that month.

There was an above-average amount of sickness from influenza during November, more particularly in the Far West. Up to the end of that month, nevertheless, the large number of cases reported had not been reflected in an increased death rate from influenza-pneumonia. Sickness from this disease increased during the first half of December, with more or less serious outbreaks in various parts of the country. During the first three weeks of December, death claims paid in the industrial department of the company's home office (for all causes combined), rose sharply from a total of 5,179 for the week ended December 1, to 6,429 for that ended December 22. In seven western States (California, Oregon, Washington, Utah, Idaho, Montana, and Colorado) deaths from influenza and pneumonia increased five-fold between November 12 and December 15, the rise being continuous from week to week.

With the exception of diabetes, heart disease, and accidents (the death rates for which were unchanged from those reported in November, 1927), and respiratory diseases, other than pneumonia, all of the causes of death listed in the table show improved death rates as compared with November of last year.

¹ The District of Columbia is also included.

Death rates	(annual basis)	per	100,000 for	principal	causes of death
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[Industrial department, Metropolitan Life Insurance Co.]

	Death rate per 100,000 lives exposed 1						
Causes of death	Novem- ber, 1928	October, 1928	Novem- ber, 1927	Year, 1927			
Total, all causes	822.9	851. 9	861. 2	887. 9			
Typhoid fever	2.9 .9 1.5 2.9 9.8 14.1 75.6 65.7 71.6 16.4 51.7 137.3 63.1 16.8 19.1 16.8 19.1 65.2 11.6 6.6 63.4 20.2 184.7	4.2 .3 1.8 5.0 9.5 8.0 73.1 77.5 15.8 51.9 131.1 57.3 16.0 37.5 64.6 8.2 64.6 8.2 64.6 8.2 63.7 21.6 83.7	4.3 1.0 2.6 3.9 12.5 11.2 80.3 71.2 80.3 71.2 80.3 71.2 80.3 71.5 16.4 53.9 137.0 66.8 15.1 23.4 67.6 14.7 8.1 7.7 63.2 21.1 196.8	4.6 4.1 3.1 6.4 10.6 6 17.8 93.6 93.6 81.9 974.3 16.8 55.1 132.5 77.7 11.7 24.6 69.5 515.5 8.3 3 7.3 63.9 18.4 190.5			

1 All figures include infants insured under one year of age.

COURT DECISION RELATING TO PUBLIC HEALTH

Protection of junk piles required to prevent accumulation of water in containers resulting in breeding of mosquitoes.—(Arkansas Supreme Court: Yaffe v. City of Fort Smith et al., 10 S. W. (2d) 886; decided November 19, 1928.) The appellant operated a junk yard in the city of Fort Smith, and action was brought against him on the ground that the junk yard constituted a nuisance. The evidence tended to show that there were, among the junk, containers which held water; and that this condition would result in the breeding of mosquitoes which would affect the health of persons in the vicinity. The supreme court's holding is shown by the following quotation from the opinion:

The evidence in this case, however, indicates that appellant's junk piles may be so protected that no water can get into the containers and so protected that there may be no danger of breeding mosquitoes. And we think that the junk piles complained of should have a roof over them and be so protected that there would be no chance for water to accumulate in containers and no chance for the breeding of mosquitoes, and appellant should be required to do this without any unnecessary delay.

Appellant's business has been established for a number of years, and at the time it was established it was probably not an interference with the rights of any one. But it has become so because of the growth of the city and, having become so, the private rights of appellant must yield to the public good.

We have therefore reached the conclusion that the appellant should be required to protect the property, as above indicated, without unnecessary delay, and that if he does not do so, he should be required to remove it. The appellant should be permitted to put a roof over his property and protect it in the manner herein indicated within a reasonable time. And, unless it is so protected that it will not be a nuisance, he should be required to remove it. He may be required to remove it at any time if it becomes a nuisance. The junk pile, of course, can be abated by proper proceedings if at any time hereafter it shall become a nuisance.

DEATHS FROM INFLUENZA AND PNEUMONIA IN LARGE CITIES

Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 12, 1929. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

				W	eek ende	d			
City	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929
Total	91	105	203	291	477	765	1, 081	1, 424	1, 309
Akron	0	0	0	0	2	18	14	5	
Albany	0	0	0	2			3	4	5
Alianta	1	U U	2	10	10	33	51 17	31	
Birminghem	ő	n n	ő	9		•	11	80	108
Boston	2	2	2	õ	2	2	3	4	19
Bridgeport	ī	ō	ī	2	ō	õ	ŏ	3	2
Buffalo	1	1	Ó	Ō		6	- 4	10	22
Cambridge	0	0	0	0		0		0	0
Camden	1	1	0	0	4		4	4	10
Canton	0	1	0	3		1	2	27	13
Chicago.	. 0	2	10	10	33	80	104	67	50
Claveland	2	1	4	9	2	25	54	40 85	40
Columbus	õ	i	î	õ	Ĩ	10	22	33	46
Dallas	ŏ	2	ī	ž	ŏ		18	25	21
Dayton	Ō	0	1	1		0	2	3	
Denver	2	1	15	28	58	50	25	19	15
Des Moines	0	0	0	2	6	19	13	10	0
Detroit	4	0	4	3	1	22	64	90	73
	0	1		2	0	7	10	10	19
Reia		1	1	1	-	1	3	10	23
Fall River	ŏ	i	ô	ĭ	0	0	, , , , , , , , , , , , , , , , , , ,	5	. 8
Flint.	i	Ō	Õ	Ō	Ŏ	2	5	19	16
Fort Worth	0	1	2	1	3	3	4	23	37
Grand Rapids	1	0	1	1	11	16	18	6	10
Houston	0	1	0	1	2	5	12	17	13
Indianapolis	0	1	N N	3	0	10	10	10	10
Kansas City Kans	0	Ŭ	Ň	1		2	ŝ	•	· á
Kansas City, Kans	ĭ	ŏ	ĭ	12	35	20	Ů	9	, Å
Knoxville	ī	ĭ	ī	2	ĩ	11	14	15	18
Los Angeles	8	14	55	70	85	. 45	32	25	
Louisville		-2			. .	1	2	7	8
Lowell	0	0	1	0	0	1	0	0	0
Lynn	U U					1			*
Milwenkee	0	6		4 9	4	10	10	24	36
Minneapolis	1	Ň	2	2	2	21	24	27	20
Nashville	î	2	ī	2	_		8	13	35
New Bedford	Ô	ō	ō	ō	0				1
New Haven	0	1	0	1	2	0	1	1	2
New Orleans	5	4	9	5	12	37	53	84	52
New IOFK	ŏ	14	H	15	16	25	40		00
New at i, N. J		2		2	1	4		14	
Oklahoma City	2	ĩ		2		2	21	11 l	10
Omaha	ŏ	ô	Ő	ŏ	0				
Paterson	Ó	Ó	Í	1	Ő	2	0	7	10
Philadelphia	6	7	4	14	16	34	47	56	72
Pittsburgh!	11	81	41	51	17	64 1	144	177 1	98

INFLUENZA DEATHS

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January 25, 1929

Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 12, 1929—Continued

	Week ended-								
City	Nov. 17, 1928	Nov. 24, 1928	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929
Portland, Oreg. Providence. Richmond. Richmond. Rochester. St. Louis. Sal Yaul. Sal Lake City. San Antonio. San Francisco. Schenectady. Seattle. Spokane. Springfield, Mass. Syracuse. Tacoma. Toledo. Trenton. Utica Washington, D. C. Waterbury. Wilmington, Del.		30000000000000000000000000000000000000	4 100000 001438677286000000000000000000000000000000000	1 0 1 0 1 8 6 6 1 1 1 9 9 0 5 5 6 0 0 5 5 1 0 0 0 0 0 0 0 0 0	9 0 3 0 2 13 6 15 15 15 15 12 1 0 1 1 7 0 0	9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 0 4 0 5 13 8 8 9 0 17 7 9 0 6 10 39 0 0 0 7 4 9	10 12 17 3 9 12 12 3 3 11 15 7 1 5 7 1 9 4 4 6 6 3 10 5 4 4 10 5 4 2	8 5 5 00 10 13 13 15 5 5 5 5 11 1 12 20 7 7 2 25 0 0 3 3 2 2 2
Youngstown							15	22	29

INFLUENZA DEATHS

PNEUMONIA DEATHS

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Total	687	791	853	1,009	1, 226	1, 646	1, 982	2, 469	1, 974
Akron	1	: 4	5	8	8	65	38	32	31
Albeny	3	7	8	8	4	9	11	12	15
Atlanta	4	5	10	8	14	26	28	19	
Baltimere	24	32	25	35	37	27	51	65	94
Rirmingham	6	6	10	9	9	4	7	27	44
Boston	20	22	17	24	24	36	29	- 39	52
Bridgeport	4	6	1	3	3	2	1	6	12
Buffalo	15	11	15	15	24	33	36	47	65
Combridge	2	2	2	1	3	2	6	7	7
Camden	3	5	4	5	12	8	4	26	23
Centon	2	2	5	3	6	15	12	19	8
Chicago	49	71	70	-85	129	179	226	208	153
Cincinnett	10	15	14	.13	11	13	28	63	56
Claveland	7	13	14	17	19	35	60	106	124
Columbus	5	4	4	6	5	12	26	34	28
Dallag	ī	- 2	4	2	1	4	21	24	27
Devton	<u>ā</u>	$\overline{2}$	Ō	7	3	9	13	13	
Denver	4	9	12	22	51	28	22	16	14
Des Moines	ī	Ŏ	0	4	2	25	6	8	· 7
Detroit	31	25	38	39	35	57	112	160	134
Duluth	2	ī	1	5	1	2	0	1	· ` 3
Pi Deen	2	3	2	5	6	11	6	6	
Frie	7	2	4	2	3	0	5	3	11
Pall Diver	i	2	Ō	3	1	5	7	3	8
Wint	4	5	9	11	2	4	12	17	26
Post Worth	ā	6	i	3	3	7	11	12	13
Grand Banida	ĭ	5	$\overline{2}$	5	5	8	8	3	5
Ungeton	2	11	- 4	8	12	17	20	46	81
Indianapolia	11	18	14	19	33	43	48	44	27
Tarsay City	īī	12	6	8	12	18	17	23	28
KonsesCity Kans	5	1	5	5	31	12	6	12	7
Kansas City Mo	3	5	15	15	29	52	12	23	19
Kansas Olty, Mo	· 3	6	ĩ	- 4	1	18	9	18	26
Tog Angeles	18	41	57	69	44	36	33	28	
Louisville	10	3	7	14	10	9	13	31	39
	2	3	1	2	4	4	2	5	4
Lown	āl	īl	2	ōl	3	2	. 6	1	3
Memphia	Ř	7	3	17	5	10	12	25	
Milwonboo	5	3	8	8	4	22	36	40	43
Minneenolie	16	4	6	15	8	14	23	21	- 33
winneghong	101								

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Deaths from influenza and pneumonia in 78 large cities during nine weeks ended January 12, 1929—Continued

	Week ended								
City	Nov. 17, 19 28	Nov. 24, 19 28	Dec. 1, 1928	Dec. 8, 1928	Dec. 15, 1928	Dec. 22, 1928	Dec. 29, 1928	Jan. 5, 1929	Jan. 12, 1929
Nashville	3 3 5 12 137 7 6 7 7 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 27 7 3 407 1137 7 5 407 1137 7 1137 7 1137 7 1137 7 1137 7 1137 1137 1137 1137 1137 1137 113 1137 113 113 113 113 1 3 1111111111111	$\begin{array}{c} 2 \\ 1 \\ 2 \\ 9 \\ 150 \\ 10 \\ 4 \\ 6 \\ 5 \\ 2 \\ 4 \\ 3 \\ 7 \\ 1 \\ 5 \\ 3 \\ 6 \\ 6 \\ 2 \\ 5 \\ 3 \\ 6 \\ 6 \\ 2 \\ 5 \\ 3 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 5 \\ 3 \\ 6 \\ 6 \\ 1 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 8 \\ 1 \\ 6 \\ 3 \\ 7 \\ 1 \\ 2 \\ 5 \\ 6 \\ 4 \\ 4 \\ 1 \\ 1 \\ 1 \\ 7 \\ 1 \\ 3 \\ 3 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	5233122331127254 11127254 3003857736510559 10559115224557188224 830265	$\begin{array}{c} 10\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\ 1\\$	$\begin{array}{c} 3\\ 3\\ 6\\ 10\\ 202\\ 10\\ 8\\ 34\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\ 3\\$	8 8 2 2 2 2 2 2 2 2 2 2 2 2 2	$\begin{array}{c} 4\\ 3\\ 4\\ 444\\ 223\\ 19\\ 7\\ 9\\ 41\\ 1\\ 2\\ 134\\ 149\\ 18\\ 8\\ 14\\ 86\\ 20\\ 1\\ 12\\ 3\\ 17\\ 2\\ 1\\ 2\\ 1\\ 3\\ 7\\ 21\\ 5\\ 6\\ 9\\ 10\\ 2\\ 27\\ 8\\ 11\\ 19\\ 2\\ 5\\ 2\\ 7\\ 7\\ 11\\ 19\\ 2\\ 5\\ 2\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\ 7\\$	$\begin{array}{c} 3 \\ 6 \\ 7 \\ 622 \\ 302 \\ 302 \\ 311 \\ 18 \\ 19 \\ 19 \\ 207 \\ 10 \\ 200 \\ 99 \\ 14 \\ 200 \\ 17 \\ 4 \\ 18 \\ 14 \\ 11 \\ 10 \\ 00 \\ 0 \\ 11 \\ 5 \\ 11 \end{array}$	9 111 9

PNEUMONIA DEATHS-Continued

Blank spaces indicate that no report has been received.

DEATHS DURING WEEK ENDED JANUARY 12, 1929

Summary of information received by telegraph from industrial insurance companies for the week ended January 12, 1929, and corresponding week of 1928. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

•	Week ended Jan. 12, 1929	Corresponding week, 1928
Policies in force	72, 481, 951	69, 954, 836
Number of death claims	19, 561	15, 439
Death claims per 1,000 policies in force, annual rate_	14.1	11. 5

Deaths from all causes in certain large cities of the United States during the week ended January 12, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1928. (From the Weekly Health Index, January 16, 1929, issued by the Bureau of the Census, Department of Commerce)

City Total deaths Death panel (seths) Death panel (seths) Death panel (seths) 0.00 panel (seths) Week panel (seths) Corre- panel (seths) Co		Week en 12,	ided Jan. 1929	Annual death rate per	Deaths ye	Infant mortality	
Total (65 cities) 11, 701 20. 5 14. 2 1, 639 797 190 Albany ' 50 21. 7 17. 4 4 4 797 Valued 66 (7) (7) 2 6 53 153 56 12.0 7 4 23 12.0 7 4 23 12.0 7 4 23 12.0 7 4 23 12.0 13 13 13 13 13 13	City	Total deaths	Death rate ¹	1,000, corre- sponding week, 1928	Week ended Jan. 12, 1929	Corre- sponding week, 1928	rate, week ended Jan. 12, 1929 ²
Albany '- 50 21.7 17.4 4 4 77 Althana. 183 22.7 19.3 5 13 3 9 Colored. 46 (°) (°) 2 6 33 37 25.0 16.9 34 20 160 36 37 25.0 16.9 34 20 160 20 14 60 22 6 16.0 18.1 11 5 100 10 4 20 100 40 20 14 60 22 20 10 4 20 100 4 20 100 4 20 100 4 20 100 4 20 100 4 20 100 4 20 100 4 100 4 20 100 100 4 100	Total (65 cities)	11, 701	20.5	14.2	1, 039	797	3 90
Atlanta 113 23.2 19.3 5 13 25.2 White 645 (7) (7) 7 5 0 0 White 36 (7) (7) 25.0 16.9 34 20 16.9 Birmingham 260 01.6 18.1 11 1 16 220 Borton 124 (7) (7) 10 4 220 10.6 18.1 11 1 142 11 1 1	Albany 4	50	21.7	17.4	4	4	79
Called 36 (0) (0) (0) 32 8 Baltimingham 311 (0) (0) (0) 16.9 33 100 White 311 (0) (0) 14 6 1222 Birmingham 262 61.6 18.1 21 5 100 White 111 1 1 16.9 222 111 1 16.9 Bordingeport 262 13.4 16.2 12.1 4 227 112 Cambed, 389 16.2 12.0 1 4 27 113 111 1 119 111 1 111	Atlanta	113	23. 2	19.3	5	15	52
Baltimore '	Colored.	45	(*)	(5)	2	6	
W nite 311 (2) (4) (5) Birmingham 222 61.6 18.1 21 5 Birmingham 226 61.6 18.1 21 5 Bor Colored 226 10.4 16.4 26 10.4 273 Brefgenort 226 12.6 18.3 26 12.0 7 4 273 Brefgenort 226 12.1 18.4 26 12.0 7 4 121 Cambridge 36 16.2 13.3 26 17 112 Canton 47 21.0 10.3 5 3 119 Chicago ' 1.064 17.5 13.9 111 71 99 Chicago ' 1.064 17.5 13.9 115 51 146 Columbus 166 26.4 18.0 11 4 120 Colored 200 (9.4 17.1 13 10 00 <td>Baltimore 4</td> <td>397</td> <td>25.0</td> <td>ìí6. 9</td> <td>34</td> <td>20</td> <td>109</td>	Baltimore 4	397	25.0	ìí6. 9	34	20	109
Birmingham 222 61.6 18.1 21 5 100 White 114 11 1 143 11 1 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11 143 11	Colored	311	(5)	(3)	20 14	14	80 222
White 144 11 1 165 Colored 118 (4) 16.4 26 19 72 Borton 266 12.2 13.3 266 17 71 Buffalo 288 25.2 13.3 26 17 71 Cambridge 39 16.2 20 7 4 72 Camden 61 23.6 12.0 7 4 121 Cantori 47 21.0 10.3 5 3 19 Chicago ' 1,064 17.5 13.9 111 71 99 Chereland 21.6 10.2 36 16 16 160 Delawer 106 25.4 18.0 16 16 100 Des Moines 40 13.4 17.1 11 13 100 Des Moines 56 20.7 10.8 81 25 26 Des Moines 52 22.2 12.5 8 150 130 Detroit	Birmingham	262	61.6	` 18.1	21	5	190
Boction 118 (*)	White	144			11	1	165
Birdigeport. 747 75. 76. 73 8 86 77. Cambéride 288 26.2 13.3 26 12.1 4 17 17 Cambéride 61 23.6 12.0 7 7 121 Canton 47 21.0 10.3 5 3 119 Chicago '. 1,064 17.5 13.9 111 17 169 Chicago '. 1,064 17.5 13.9 111 16 100.2 25 15 146 Columbus. 166 28.6 14.9 16 4 150 Dallas. 106 25.4 18.0 11 6 130 106 Des Moines 40 13.8 15.8 0 3 20 20 12.5 8 6 150 Des Moines 60 23.2 9.1 5 6 150 150 150 150 150 150 150 150 150 150 150 150 150 150	Colored	296	(9)	(*)	26	19	72
Buffalo 288 25.2 13.3 28 17 112 Cambridge 61 23.6 12.0 7 4 127 Candon 47 21.0 10.3 5 3 110 Chicago ' 1,064 17.5 13.9 111 71 49 Chicago ' 1,064 17.5 13.9 111 71 49 Chicago ' 106 25.4 18.0 16 4 15.1 146 Colourabus 169 29.6 14.9 16 4 15.0 16 4 15.0 16 4 15.0 16 4 15.0 16 4 15.0 16 4 15.0 16 16.0 17.1 11 13 100 10 11.0 16 11.0 16 15.0 16 11.0	Bridgeport	47			3	8	52
Camber 39 10.2 12.1 5 4 12.1 Candon 47 21.0 10.3 5 3 119 Chicago * 1,064 17.5 13.9 111 71 96 Chicago * 10.4 200 10.2 39 22 15 146 Chicago * 10.9 22.6 14.9 16 4 109 10.4 11 6 10.2 39 221 115 115 115 116 1111 111 111 1	Buffalo	268	25.2	13.8	26	17	112
Canton 47 21.0 10.3 5 3 119 Chicago 4. 1,064 17.5 13.9 111 71 69 Cincinnati 417 21.6 10.2 39 25 15 146 Cheveland 417 21.6 10.2 39 21 15 16 Columbus 106 25.4 18.0 16 4 150 Delase 106 25.4 18.0 16 4 150 Denver 109 19.4 17.1 11 13 106 20 7 10.8 81 35 30 0 Detroit 566 20.7 10.8 81 32 26 10.7 11.8 11 13 106 12 24 24 10.7 14.8 12 24 24 12 14 12.9 9 4 12 24 10.7 13.8 13.0 13 10 13 13 13 13 13 13 10 13 14	Cambridge	39 61	10. 2 23. 6	12.1	7	4	121
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Canton	47	21. 0	10.3	5	8	119
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Chicago 4	1,054	17.5	13. 9	111	71	99
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Cleveland	417	21.6	10.2	39	21	115
Dallas 106 22.4 18.0 11 6 Colored 20 (?) (?) 3 2	Columbus	169	29.6	14.9	16	4	150
Colored 20 (i) (i) 3 2	Dallas	106	25.4	18.0	11	6	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Colored	80 20	·····(*)	(8)	3	2	
Des Moines 40 13.8 15.8 0 3 0 Detroit 24 10.7 14.8 1 2 24 Breso 52 23.1 12.9 3 2 24 Brie 52 20.2 12.5 8 6 150 Fall River 4 52 20.2 12.5 8 6 150 Fort Worth 81 24.8 13.5 8	Denver	109	`19.4	` 17. 1	11	13	106
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Des Moines	40 548	13.8	15.8	0 91	3	130
El Paso. 52 23.1 12.9 9 4 Brie. 66 20.2 12.5 8 6 150 Filn River 4. 52 20.2 12.5 8 6 150 Filn River 4. 52 20.2 12.5 8 6 61 Fort Worth 81 24.8 13.5 6 61 White 72 61 6 22.2 9.1 5 6 6 Colored 9 (*) (*) 2 2	Duluth	24	10.7	14.8	1	2	24
Brie 66 20.2 12.5 3 2 01 Fall River 4 52 23.2 9.1 5 6 66 Fort Worth 81 24.8 13.5 8 8	El Paso	52	23.1	12. 9	9	4	
Fail Arrive 32 23.2 29.1 35 6 61 Port Worth 81 24.8 13.5 8 6 61 White 72	Erie	66 52	20.2	19.5	3	2	150
Fort Worth 81 24.8 13.5 8 8 White 72 (9) (9) (9) 2 2 Grand Rapids 44 14.0 8.0 3 2 45 Houston 117 (9) (9) 2 2 White 94 8 9 8 9 8 9	Flint	66	23.2	9.1	5	ő	61
White. 72 (i) (i) (i) 0	Fort Worth	81	24.8	13. 5	8	8	
Grand Rapids 44 14.0 8.0 3 2 45 Houston 117 17 8 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9 6 9	- White	72	(1)	·····	02	2	
Houston 117	Grand Rapids	44	¥14.0	8.0	3	$\overline{2}$	45
White 94 (i) (i) 0 0 0 111 Colored 128 17.5 15.6 14 9 112 White 111 13 8 121 Colored 111 13 8 121 Geored 117 (9) (9) 1 1 60 Jersey City 118 19.0 11.3 10 13 77 Kansac City, Kans 36 15.9 19.9 6 6 133 White 27 3 1 538 6 175 Colored 9 (3.2 14.6 11 9 93 Knoxville 56 27.8 21.3 8 6 175 Colored 0 (9) (9) 10.0 0 0 0 Los Angeles 308	Houston	117			8	9	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Colored	23	·····(5)	(5)	2	ő	
White 111 111 13 8 121 Colored 117 (*) (*) 1 1 6 133 77 Kansas City, Kans 36 15.9 19.9 6 6 133 77 White 27	Indianapolis	128	`í7. 5	` 15.6	14	9	112
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	White	111			13	. 1	121
Kansas City, Kans. 36 15.9 19.9 6 6 133 White. 27	Jersey City	118	19.0	11.3	10	13	77
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Kansas City, Kans	36	15.9	19.9	6	6	133
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	White	27			3	5	70 538
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Kansas City, Mo	99	13.2	14.6	11	9	93
White 56	Knoxville	56	27.8	21.3	8	6	175
Los Angelet 308	White	56	(5)	(1)	8	Ö	0 581
Lonisville 129 20.5 14.0 12 0 97 White Colored	Los Angeles	308			26	26	76
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Louisville	129	20.5	14.0	12	0	97
Lowell 30 (7) 3 4 68 Lynn 24 11.9 10.9 0 5 0 Memphis 140 38.5 23.9 13 3 153 White 88	White		(4)	(1)		ŏ	
Lynn 24 11.9 10.9 0 5 0 Memphis 140 38.5 23.9 13 3 153 White 88 7 2 132 Colored 52 (3) 6 1 188 Milwaukee 210 20.2 12.3 23 24 101 Minneapolis 178 20.4 13.2 14 11 87 Nashville 71 3 3 65 Colored 71 3 3 65 Colored 71	Lowell	30			3	4	68
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Lynn	24	11.9	10.9	0	5	0
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	White	88	30. 0	<i>20.0</i>	7	2	132
Milwaukee 210 20.2 12.3 23 24 101 Minneapolis 178 20.4 13.2 14 11 87 Nashville 116 43.4 20.6 7 6 113 White 71 3 3 65 Colored 45 (9) (9) 4 3 252 New Bedford 45 6 5 129 New Haven 48 13.4 13.9 2 4 31	Colored	52	(5)	()	6	1	188
Nathwile 116 20. 2 1 1 113 White 71 3 3 65 Colored 45 (*) (*) 4 3 252 New Bedford 45 6 5 129 New Haven 48 13.4 13.9 2 4 31	Milwaukee	210	20.2	12.3	23	24 11	87
White 71 3 3 65 Colored 45 (³) 4 3 252 New Bedford 45 6 5 129 New Haven 48 13.4 13.9 2 4 31	Nashville	116	43.4	20. 6	7	6	113
Cotored 40 (*) 4 3 202 New Bedford 45 6 5 129 New Haven 48 13.4 13.9 2 4 31	White	71			3	3	65
New Haven	Colored	45	(9)	(9)	1	3 5	1202
	New Haven	48	13.4	13.9	2	41	31

Footnotes on p. 192.

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Deaths from all causes in certain large cities of the United States during the week ended January 12, 1929, infant mortality, annual death rate, and comparison with corresponding week of 1998-Continued

	Week er 12,	nded Jan. 1929	Annual death rate per	Deaths	Infant mortality	
СКу	Total deaths	Death rate ¹	1,000, corre- sponding week, 1928	Week ended Jan. 12, 1929	Corre- sponding week, 1928	rate, week ended Jan. 12, 1929 ³
New Orleans. White. Colored. New York. Brooklyn Borough. Manhattan Borough. Queens Borough. Richmond Borough. Richmond Borough. Newark, N. J. Oakland. Oklahoma City. Omaha. Paterson. Philadelphia. Pittsburgh. Portland, Oreg. Providence. Bichmond. White. Colored. K. Louis.	266 177 199 2,133 278 746 837 746 838 745 639 74 386 96 96 96 96 97 1111 111 60 92 9110 9110 9110 9110 9110 9110 9110	(*) 18.5 15.3 16.9 25.0 13.8 16.3 21.6 13.0 12.9 24.2 20.9 30.0 13.0 12.9 24.2 20.9 30.0 13.0 22.9 30.0 23.0 23.0 24.2 20.9 30.0 25.0 24.2 20.9 30.0 25.0 24.2 20.9 20.0 20.9 20.7 2	20. 6 () 15. 0 12. 3 12. 5 22. 1 9. 8 15. 6 12. 1 13. 4 14. 1 10. 1 13. 5 15. 8 12. 4 14. 0 () 11. 9 14. 8	15 5 10 192 30 21 21 2 6 6 33 31 1 1 1 1 1 1 1 1 1 1 2 4	11 8 32007 228 700 87 70 20 21 11 11 2 5 5 3 0 0 2 11 11 12 5 5 6 7 7	74 35 168 79 92 65 79 122 36 111 122 120 82 13 113 113 113 113 113 113 113 113 113
St. Panl. Salt Lake City 4	84 36 87 75 187 38 115 54 54 54 54 54 54 54 54 54 5	13. 6 20. 9 32. 8 16. 7 21. 3 15. 7 9. 7 26. 9 18. 1 22. 6 14. 2 26. 0 25. 1 22. 7 (*) 14. 2 13. 5 18. 5 23. 1	11. 4 19. 7 13. 5 13. 8 14. 6 13. 6 12. 2 14. 9 16. 4 11. 8 10. 4 11. 4 11. 4 13. 9 17. 1 15. 3 (9) 14. 6 12. 2 14. 9 9. 9 9. 9	40122634486228722081265417	5391045315346441266133458	41 0 38 39 43 39 99 99 24 51 177 51 177 51 117 68 227 152 130 50 50 23 101

¹ Annual rate per 1,000 population. ³ Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births. ⁴ Data for 71 cities.

4 Deaths for week ended Friday.

¹ In the cities for which deaths are shown by color the colored population in 1920 constituted the follow-ing percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Housten, 25; Indianapolis, 11; Kansas City, Kaus., 14; Knorville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 25; Richmond, 32; and Washington, D. C., 25.

PREVALENCE OF DISEASE

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

UNITED STATES

CURRENT WEEKLY STATE REPORTS

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

Reports for Weeks Ended January 12, 1929, and January 14, 1928

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 12, 1929, and January 14, 1928

· · ·	Diph	theria	Influenza		Measles		Meningococcus meningitis	
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928						
New England States: Maine New Hampshire	1	2	722 75	3	216 38	59	0	0
Vermont Massachusetts Rhode Island	117 6	129 17	373 1,976 208	2 10	9 792 72	1,202	0 3 0	0 1 0
Volume Connecticut. Middle Atlantic States: New York	30 283	44 421	2, 079 1 2, 649	¹ 22	390 946	142	37	2
Pennsylvania East North Central States:	164 162	198 251	4, 111 	 53	913 055	188 857 176	9 0 15	3 2 0
Indiana Illinois Michigan	53 161 04	47 184 109	986 1, 240 3, 394	33 33 33	134 339 94	87 58 354	13 0 7 18	0 9 1
Wisconsin. West North Central States: Minnesota	20 17	40	3, 830 252	87 1	191 121	28 6	10 3	3 2
Iowa Missouri ² North Dakota	16 67 4	12 46 9	103 3, 122 546	11	27 10	82 30 1	6 4 3	3 5 3
South Dakota Nebraska Kansas	17 21	11 32	264 383 1, 697	1 	31 13 18	45 4 25	4 0 1	0 3 7
South Atlantic States: Delaware Maryland ³	3 31	1 25	155 5, 816	2 49	41 46	17 249	0 2	0 1
District of Columbia West Virginia North Carolina	8 21 56	32 14 80	567 13, 711	2 31	2 141 23	7 71 3, 689	0 3 0	0 1 0
South Carolina Georgia Florida	20 8 6	49 23 25	6, 421 7, 739 820	1, 43 9 184 11	5 59 2	1,459 173 7	0 1 0	0 0 1

¹ Week ended Friday.

¹ New York City only. ² Figures for 1929 are exclusive of Kansas City.

Cases of cer	tain communicable	diseases reported	by telegraph by	State health officers
for we	eeks ended January	y 12, 1929, and J	anuary 14, 192	8—Continued

	Diph	theria	Influ	Jenza	Me	asles	Menin men	gococcus ingitis
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928
East South Central States: Kentucky Tennessee Alabama. Mississippi West South Contral States.	7 26 34 9	13 17 33 16	6, 170 12, 599 19, 987 5, 030	8 141 224	28 69	51 445 165	0 1 0 2	000000000000000000000000000000000000000
Arkansas Louisiana Oklahoma 4	8 20 85 44	19 29 55 80	5, 289 6, 163 9, 079 6, 695	266 48 187 65	12 33 9 89	183 62 60 36	12 4 8 1	0 1 2 1
Montana States: Montana Idaho. W yoming. Colorado. New Mexico. Arizona Utah ³ . Pacific States:	4 1 4 6 8 10 7	1 18 7 35 9	333 9 311 117 125 10 14	 4	72 5 3 13 1	1 2 61 46 27	4 0 2 6 2 7 5	0 0 7 3 0 1 3
Washington Oregon California	12 21 61	8 14 129	151 741 976	1 23 34	83 49 26	269 46 96	9 1 19	5 0 9
	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	2 0 0 1 0 0	1 0 6 0 0	22 7 13 262 19 50	26 0 364 38 112	1 0 1 0 0 0	0 9 0 -9 53	0022000	1 0 5 1 3
New York. New Jersey. Pennsylvania.	0 2 0	6 1 3	505 131 261	626 205 450	1 · 0 0	18 0 0	15 2 5	15 5 20
Discontinue de la contra de la	0 0 2 2 0	5 1 1 2 1	251 116 299 277 123	295 115 366 396 164	17 52 100 26 36	23 125 25 49 27	4 0 4 1 8	14 2 16 9 0
Minnesota Iowa Missouri ¹ North Dakota South Dakota Nebraska Kansas	0 1 0 0 0 0	1 3 2 3 0 1 4	114 114 75 24 33 60 106	137 84 98 29 40 83 192	2 11 44 5 28 26 12	3 100 51 6 7 44 125	0 0 1 1 2 1 2	4 1 1 1 1 1
South Atlantic States: Delaware	0 0 0 0 2 0 0	0 1 0 4 1 1 0 0	2 62 15 40 53 13 25 10	5 69 37 56 81 10 24 14	0 1 0 16 16 0 0 0	0 0 17 106 33 0 10	1 3 0 6 0 5 3 2	0 6 0 10 4 9 3

Figures for 1929 are exclusive of Kansas City.
 Week ended Friday.
 Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1923 are exclusive of Tulsa.

	Polion	nyelitis	Scarle	st fever Sm		allpox	Typhoid fever	
Division and State	Week ended Jan. 12, 1929	Week ended Jan. 14, 1928						
Fast South Central States:								
Kantucky	0	0	0	58	17	97	2	1 3
Tennesse	ŏ	ĭ	20	21	-ii	28	2	1 7
Alahama	ŏ	ō	24	10	18	4	ĭ	12
Mississinni	ň	ŏ	ii ii	20	ĩ	7	ī	5
West South Central States:	· ·	Ū		-	-	•	-	
Arkansas	0	0	27	26	1	9	12	3
Louisiana	ŏ	ĭ	34	ĨĨ	11	11	6	1 11
Oklahoma 4	i	ī	21	41	62	201	Ř	7
TATAS	ō	$\overline{2}$	56	90	12	78	š	Ġ
Mountain States:		-	••				, i	· ·
Montana	0	0	52	35	13	27	2	0
Idaho	Ō	Õ	4	25	28	ii l	ī	i
Wyoming	ŏ	ŏ	32	34	5	18	ō	ā
Colorado	Ō	2	5	151	5	18	ī	ιõ
New Mexico	ŏ	ō	Ġ.	9	ŏ	ŏ	ĩ	ī
Arizona	Ō	Õ	2	8	8	Ó	ō	ī
IItah 1	ŏ	ŏ	12	17	10	33	ŏ	Õ
Pacific States:	-	-					-	
Washington	0	6	33	54	56	70	0	4
Oregon	i	4	23	82	56	49	ŏ	
California	2	8	264	206	37	22	ĭ	13
~	-	-					-	

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended January 12, 1929, and January 14, 1928—Continued

³ Week ended Friday.

· Figures for 1929 are exclusive of Oklahoma City and Tulsa and for 1928 are exclusive of Tulsa.

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	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
November, 1928	,									
Colorado Kansas	10 3	99 143	132 388	1	30 28		6 1	110 447	14 106	19 24
December, 1928										
Arizona Connecticut ¹ Maine Nebraska North Dakota Porto Rico Tennessee Vermont	6 9 	20 138 61 47 54 155 18	4, 143 460 611 5, 567 28, 003 659 18, 733 301	 3, 642 53	83 784 1, 613 54 36 83 14 93	 6 17	2 3 3 2 0 0 2 1	15 208 151 192 120 1 196 90	15 2 33 142 16 0 26 5	5 10 4 12 130 48 0

¹ The 16 cases published in Public Health Reports dated Nov. 16, 1928, p. 3043, as botulism, upon later investigation were found to be food poisoning but not botulism.

1

November, 1928

November, 1928-Continued

Chicken pox: Colorado Kanses	Cases 380 776	Impetigo contagiosa: Colorado Kansas	Cases 12 2
German measles:		Mumps:	
Colorado	5	Colorado	116
Kansas	. 19	Kansas	181

November, 1988-Continued

Ophthalmia neonatorum:	Cases
Kansas	1
Puerperal septicemia:	
Colorado	1
Septic sore throat:	
Colorado	1
Kansas	1
Tetanus:	
Kansas	1
Tularaemia:	
Colorado	1
Kansas	4
Vincent's angina:	
Colorado	6
Wheoping cough:	
Colorado	34
Kansas	231

December, 1928

Actinomycosis :	
North Dakota	1
Anthrax:	
Connecticut	1
Porto Rico	1
Beriberi:	
Porto Rico	2
Chicken pox:	
Arizona	32
Connecticut	535
Maine	313
Nebraska	175
North Dakota	150
Tennessee	183
Vermont	132
Colibacillosis:	
Porto Rico	1
Conjunctivitis:	
Maine	1
Dysentery:	
Connecticut (bacillary)	2
Porto Rico	2, 136
Tennessee	3
Filariasis:	
Porto Rico	4
German measles:	
Connecticut	63
Maine	27
Neb ra ska	4
Lead poisoning:	
Connecticut	1
Lethargic encephalitis:	
Connecticut	3
Maine	1
North Dakota	3
Tennessee	1
	-

December, 1988-Continued

Mumps:	Cases
Arizona	8
Connecticut	235
Maine	215
Neb ras ka	9
North Dakota	5
Porto Rico	26
Tennessee	19
Vermont	342
Ophthalmia neonatorum:	
Connecticut	1
Tennessoe	3
Paratyphoid fever:	
Maine	1
Puerneral fever:	
Porto Rico	20
Rables in animals:	
Connecticut	4
Scahies:	
North Dakota	3
Sentic sore threat	•
Connecticut	5
Meine	ĭ
Nahrogko	3
North Dakota	1
Tatapus.	-
Connectiont	1
Maine	1
Porto Rien	17
Totonus (infantila).	
Borte Dieo	20
Trachama:	
A risono	3
Mosth Dabots	5
North Dakota	1
	1 8
10000000000000000000000000000000000000	0
Aunaraciina.	1
Topposee	1
Vincentia angina:	4
Vincent Sangina.	
Maine	
Wheening cough:	09
Animono	10
Arisona	10
Vollectrut	102
	101
NODESE	38
NOTIN DEKOLA	10
	94
Tennessee	65
vermont	244

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 95 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 31,060,000. The estimated population of the 88 cities reporting deaths is more than 29,490,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

	1929	1928	Esti- mated expect- ancy		1929	1928	Esti- mated expect- ancy
Cases reported Diphtheria: 45 States	1, 724 885 4, 596 1, 185 1, 185 1, 157 623 21	1, 987 999 6, 990 3, 004 62 3, 961 1, 207 901 100	1, 551 1, 368 70	Cuses reported—Continued Typhoid fever: 45 States	114 22 3, 437 0	230 29 1, 085 0	

Weeks ended January 5, 1929, and January 7, 1928

City reports for week ended January 5, 1929

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpor, 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 nonepidemic 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 1920 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.

		Chick-	Diph	theria	Influ	enza	Mea-	Mamne	Pneu-
Division, State, and city	July 1, 1926 estimated	en pox, cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	sles, cases re- ported	cases re- ported	monia, deaths re- ported
NEW ENGLAND									
Maine: Portland	76, 400	12	1	0	66	1	63	0	2
New Hampshire: Concord	¹ 22, 546	0	0	0	22	1	0	0	1
Nashua Vermont:	1 29, 723	ŏ	Ő	ő		ŏ	ŏ	ŏ	Ő
Barre Burlington	¹ 10, 008 ¹ 24, 089	0 4	0 0	0 0	11	0 0	0 0	5 5	0 1
Massachusetts: Boston Fall River	787, 000 131, 000	82 4	55 6	29 2	224 33	4 5	8 81	11 9	39 3
Springfield Worcester Rhode Island:	145, 000 193, 000	15 14	4 6	18 3	4 2	1 0	210 15	4 3	3 5
Pawtucket Providence	71, 000 275, 000	13 0	2 11	0 8	28 124	1 2	19 10	0 0	- 9
Connecticut: Bridgeport Hartford New Haven	(⁷) 164, 000 182, 000	4 3 31	8 8 3	5 6 1	219 100 16	3 3 0	17 1 2	2 6 1	4 12 7
MIDDLE ATLANTIC									
New York: Buffalo New York Rochester Syracuse	544, 000 5, 924, 000 321, 000 185, 000	33 274 30 19	19 220 12 7	20 247 7 1	264 965 214 564	10 55 3 9	4 78 18 1	1 76 16 3	47 302 7 17
New Jersey: Camden Newark Trenton	131, 000 459, 000 134, 000	3 43 1	7 20 5	2 49 7	4 789 103	4 16 6	2 4 0	0 26 1	26 36 14

1 Estimated, July 1, 1925.

² No estimate made.

City reports for wee	k onded Ja <mark>huary 5</mark> ,	19#9—Continued
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Construction of the original distance of the o									
		Chick	Diph	theria	Infl	uenza	1600	_	Durau
Division, State, and city	Population, July 1, 1925 estimated	en pox, canes re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Cases ro- ported	Deaths re- ported	sles, cases ro- ported	Mumps, cases re- ported	monia, deaths re- ported
MIDDLE ATLANTIC-CON.									
Ponnsylvania: Philadelphia	2, 008, 000	80	86	81	612	56	7	2	207
Reading	637,000 114,000	63 7	25 4	4	30	177	20 32	4	154
Scranton	. 143, 000	0	.5	6	10	2	25	Ŭ	3
EAST NORTH CENTRAL Obio:									
Cincinnati	411,000	6	15	.9	290	45	1	0	65
Columbus	285,000	7	7	10	386	33	2	Ő	34
Toledo Indiana:	295,000	34	12	8	16	16	3	1	18
Fort Wayne Indianapolis	99, 900 367, 000	6 20	5	3		3	0	03	13 44
South Bend	81,700	õ	1	Ő		Õ	ĭ	Ŏ	13
Illinois:	71,000		-	U					12
Springfield	3, 048, 000 64, 700	1	90	110	343 44	67	58 1	Ő	208
Michigan: Detroit	3 1, 242, 044	π	71	71	1, 157	90	6	17	160
Flint Grand Ranids	136,000	16	8	2	499	19		0	17
Wisconsin:	. 52 700		-			,		-	~
Milwaukee	517,000	84	73	0	1, 263	28	81	4	40
Superior	1 39, 671	1	1	4	43	ő	0	0	32
WEST NORTH CENTRAL									
Minnesota: Dubith	113,000	6	3			4	1	12	1
Minneapolis	434,000	178	22	13	1, 327	27	36	6	21
Iowa:	140,000		10			10			19
Sioux City	78,000	3	4	•i	ŏ		ŏ	1	· · · · · · · · · · · · · · · · · · ·
Waterloo Missouri:	36, 900	1	0	0			2	31	
Kansas City St. Joseph	375, 000 78, 400	11	10	4	200	9	47	7	0
St. Louis	830, 000	46	52	52	91	9	Ť	ŏ.	
Fargo.	1 26, 403	3	0	0		1	0	0	0
Bouth Dakota:	1 14, 811		U	U	8		U	0	
Aberdeen	1 15, 036	50	0	8].	0		0	0	
Nebraska: Lincoln	62,000	1	2	0		0	1	0	0
Omaha	216, 000	8	5	5		ŏ	Ō	Ō	19
Topeka	56, 500 02, 500	28	2	0	28	7	6	2	2
SOUTH ATLANTIC	82, 300	-	•	• -		3	V		· *
Delaware:					1				
Maryland:	124,000	0	8	1		2	22	0	11
Baltimore Cumberland	808, 000 1 33, 741	110	42	15	1,745	31	4	70	65 0
Frederick	1 12, 035	ō	ī	Ŏ	4	ī	Ö	Õ	i
Washington	528 , 000	42	22	19	658	10	1	0	20
Lynchburg	38, 493	5	2	1	1, 638	5	9	15	12
Richmond	174,000	õ	8	5	546 979	26	0		11 13
Roanoke West Virginia:	61, 900	0	2	4 -		17	1	0	5
Charleston	50, 700 1 56, 203	0	1 2	1	9 724	4	9	0	6
¹ Estimated. J	uly 1, 1925.		• Specia	al census	1 5.	4 No	nresident		
					-			· •	

City	roports	for	week	ondéd	Janu a r y	5,	1929—Continued

		(blab)	Diph	theria	Infl	uenza			Pneu- monia, deatha re- ported
Division, State, and oity	Population, July 1, 1926 estimated	Chick- en pox, cases re- ported	Cases esti- mated expect- ancy	Cases re- ported	Cases re- ported	Deaths re- ported	Mea- sles, cases ro- ported	Mumps, cnnes re- ported	
BOUTE ATLANTIC-COD.									
North Carolina: Raleigh Wilmington Winston-Salem	1 30, 371 37, 700 71, 800	4 4 16	1 1 1	1 1 2	10	12 4 0	0 0 1	0 0 0	01
Charleston	74, 100 41, 800	0 1	1		556	82	0	000	8 5
Georgia: Atlanta	(1)	4	4	3	776	30	0	1	19
Brunswick	¹ 16, 809 94, 900	0		·····i	456	10	0		7
Flerida: Miami St. Petersburg Tampa	131, 286 47, 629 102, 060	2 1	5 0 2	3	77 15 124	0 3 2	8 0	1 0	6 2 1
BAST SOUTH CENTRAL									
Covington	58, 500 311, 00 0	1 4	1 6	02	153 963	6 7	0 0	0 0	15 31
Memphis Nashville	177, 00 0 137, 000	4 0	71	3 2	6, 329	42 13	0 0	0 U	25 3
Alabama: Birmingham Mobile Montgomery	211, 000 66, 900 47, 000	4 1 1	4 1 1	7 1 0	4, 158 309 482	60 10	1 0 1	0 0 0	27 2
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Little Rock	¹ 31, 643 75, 900	9 2	1 1	0	710 67	1	1 1	0 13	3
Louisians: New Orleans	419,000	0	13	5	1, 307	84 3	1	0	62 13
Oklahoma: Oklahoma City Tulas	(*) 133, 000	0 23	22	4	594 0	11	0	09	18
Teras: Dallas Gaireston Houston San Antonio	203, 000 49, 100 1 164, 954 205, 000	1 0 1	11 2 6 2	0 9 6	100 72	0 17 8	0 2 1	0 0 0	5 46 12
MOUNTAIN Montenet									
Billings Great Falls Helena Missoula	¹ 17, 971 ¹ 29, 883 ¹ 12, 067 ¹ 12, 668	6 24 0 0	1 0 0 1	0 0 0 0	\$ 12	0 3 0 0	0 41 2 0	0 18 0 0	0 0 0
Boise	1 23, 042	0	0	0		0	1	0	0
Denver Pueblo	285, 0 0 0 43, 9 0 0	13 7	10 2	7 0	119	19 0	0 0	21 0	16 3
Albuquerque	¹ 21, 00 0	0	0	1	4	1	0	0	2
Salt Lake City	133, 000	36	3	1		3	0	42	1
Reno	¹ 12, 6 6 5	0	0	0	1	0	0	0	0
PACIFIC Washington: Seattle Spokane	(*) 109,000	15 15	5 2	2 0	20 128		0 12	4	
Oregon: Portland	1 282 383	A	11	12		10	38	2	20
Salem.	1 19, 709	1	0	-0 15	30 369	1	Õ	ō	1 28
Sacramento	73, 400 567, 08 0	26	3 19	1 6	14 52	4 8	Ō	75	3 11

¹ Estimated, July 1, 1925. ¹ No estimate made.

³ Special census.

Estimated.

	Scarle	t fever		Smallp)X		Ту	phoid i	ever	Whoon	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
NEW ENGLAND											
Maine: Portland	2			٥	•	0		1	0	3	1 19
New Hampshire:			, i	v		Ū					
Concord Manchester	02	27	0	0	0	2	0	0	0	0	16 37
Nashua	ī	Ò	Ŏ	ŏ	Ŏ	Ŏ	Ŏ	Ō	Ŏ	Ŏ	4
Barre	1	0	0	. 0	0	0	0	0	0	1	2
Burlington	1	2	0	2	0	1	0	0	0	4	11
Boston	82	73	Q	0	. 0	12	1	0	0	24	245
Fall River	3	3	0	0	0.	4	0	0	0	5	52 51
Worcester	13	-5	ŏ	ŏ	ŏ	ĭ	ŏ	ŏ	ŏ	4	58
Rhode Island: Pawtucket	1	2	0	0	0	0	0	0	0	7	23
Providence	9	15	Õ	Ŏ	Ō	i,	Ō	Ó	Ō	8	94
Bridgeport	10	3	0	0	0	0	0	0	0	2	36
Hartford	8	3	0	0	0	5	0	0	0	1 2	56 39
	Ű	Ů	°	· · ·	Ů	1	Ů	-	Ů	1	
MIDDLE ATLANTIC											
New York: Buffelo	28	22		0			1			أمد	211
New York	231	166	ŏ	ŏ	ŏ	114	11	3	1	51	1, 709
Rochester	15	3	0	0	0	1	0	8	0	21 22	78 80
New Jersey:	10			-	Ň				, i		
Newark	26	12	8 I	· 0	Ŭ	11	ő	ö	ő	24	65 181
Trenton	4	8	Ō	Ō	Ō	5	0	0	0	0	56
Philadelphia	92	49	0	0	0	87	3	2	1	77	840
Pittsburgh	38	26	0	0	0	16	1	8	8	19	585
Scranton	4	ĭ	ð	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	i.	
EAST NORTH CEN- TRAL											
Cincinnati	18	22	1	4	0	14	1	0	0	8	267
Cleveland	43	25	2	0	0	20	2	0	0	54	402
Toledo	15	6	î	Ŏ.	ŏ	8	ŏ	ŏ	ŏ	17	· 112
Fort Wayne	5	0	1	0	0	0	0	0	0	o	34
Indianapolis	10	16	10	0	0	6	0	0	0	7	139
Terre Haute	3	2	ĭ	ŏ	ŏ	i	ŏ	ŏ	ŏ	ŏ	28
Illinois: Chicago	134	104	1	3	0	50	3	2	2	34	1,052
Springfield	2	12	ō	ĭ	ŏ	Õ	ŏ	ī	ī	6	31
Detroit	98	119	4	1	0	25	2	2	0	71	576
Flint	12	13	1	1	0	2	0	8	0	0	49
Wisconsin:											10
Kenosha Milwankee	2 31	40	0	Ö	0	8	ő	ö	Ö	5	17 198
Racine	7	4	ō	Ŏ	Ŏ	1	Ó	Ó	0	8	19
WEST NORTH CEN-	0	°	1	0	U	3	Ű		Ů		11
TRAL											
Minnesota: Duluth	8	7	o	0	0	1	0	0	0	2	26
Minneapolis	55	23	3	ŏ	ŏ	3	ŏ	ŏ	ŏ	Ĩ	172
Iowa:	29	1	4	U	U	0	v	v	U I	10-	. 105
Des Moines	8	13	2	0	-		<u>0</u>	0		Q .	. 37
Waterloo	2	34	ō	ŏ			ŏ	ŏ		4	1

City reports for week ended January 5, 1929—Continued

	Scarle	t fever		Smallp)X		T	rphoid f	lever	Wheen-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	Tuber- culosis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
WEST NOBTH CEN- TRAL-Contd.											
Missouri: Kansas City St. Joseph	15 3	13 2	8	0	0	53	0	0	0	6 0 22	136 36 315
North Dakota: Fargo	+0 2	- 33 - 3	0	0	0	0	0	0	0	4	7
Grand Forks South Dakota:	1	2	0	0			0	0		0	
Aberdeen Se Sioux Falls Nebraska:	2	Ŭ	ŏ	ŏ			ŏ	ŏ		ŏ	
Lincoln Omaha	2 5	4 8	2	0	0	01	0	0	0	0	10 70
Kansas: Topeka Wichita	2	1	0	1	0	0	0	0	0	63	21 32
SOUTH ATLANTIC	_										
Delaware: Wilmington	6	1	0	0	0	4	0	0	0	1	50
Maryland: Baltimore	32	26	0	0	0	23	2	0	0	61	326
Frederick District of Col.:	Ó	Ő	Ŭ	Ő	Ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	3
Washington Virginia:	24	19	• 0	0	0	8	1	1	0	16	191
Lynchburg Norfolk Richmond	1 2 8	0 1 5	0	0	0	1 4 3	0	0	0	0	33 90
Roanoke West Virginia:	2	5	Ŏ	ŏ	Ŏ	Ŏ	Ŏ	Ö	Ó	0	42
Charleston Wheeling	2 2	0 1	Ő	0	0	1	0	0	0	12	30 48
Raleigh Wilmington	1 0	0	0	0	0	0	0	0	0	0	22 19
Winston-Salem South Carolina:	3	1	1	0	0	0	U 0	0	0	5 0	21 43
Columbia Georgia:	Ŏ	ī	ŏ	Ŏ	Ō	Ō	0	0	0	0	17
Atlants Brunswick Savannah	4 0 1	16 3	2 0 0	0 0	0	5 0	0 1	2	0	2	45
Florida: Miami	2	3	o	· O	0	1	1	0	Q	0	27
St. Petersburg_ Tampa	0 1	·····1	0	· 0	0	0 3	ŏ	2	ŏ	0	31
EAST SOUTH CENTRAL											
Kentucky: Covington	2	6	0	1	0	2	0	0	0	0	44 127
Louisville Tennessee: Memphis	6	17	0	0	0	0 7	1	0	0	0	147
Nashville Alabama:	2	ĩ	ō	Ŏ	Ő	4	1	0	0	7	68 201
Birmingham Mobile Montgomery	4 0 0	6 3 2	4 0 0	0	ŏ	ó	0 0	0	1	ů 0	32
WEST SOUTH CENTRAL											
Arkansas: Fort Smith	1	2	0	0			Q	0		e	
Little Rock Louisiana:	2	6	0	0	0	0 18	0	0	0	0	329
Shreveport	2	3	ŏ	ŏl	ŏ	ŏ	ŏ	ō	ō	Ōį	44

Shreveport

City reports for week ended January 5, 1929-Continued

	Scarle	i fever		Smallp	0X		Tub er -	Т	yphoid i	iever	Whoop		
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deati re- porte	hs xd	culosis, deaths re- ported	Cases esti- mated expect ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes	
WEST SOUTH CEN- TRAL-contd.													
Oklahoma: Oklahoma City Tulsa Texas:	32	1 2	1	1 1		0	1	0	0	1	0 1	63	
Dallas Galveston Houston San Antonio	4 0 3 2	1 5 4	1 0 2 0	0 0 1		0 0 0	0 5 12	0 0 0	0 0 0	0 0 0	0 0 1	27 138 82	
MOUNTAIN					, .								
Montana: Billings Great Falls Helena Missoula	2 2 1	2 0 2	0 1 0	0000		0000	0000	0000	000	000	0500	7 8 5	
Idaho: Boise	2	0	0	0		0	0	0	0	0	0	4	
Colorado: Denver Pueblo	11 2	4	2 0	1 0		0	10 0	0	0	1 0	0	115 13	
New Mexico: Albuquerque	1	0	0	0		0	2	0	0	0	9	15	
Salt Lake City.	3	4	2	3		0	1	0	1	0	2	32	
Reno	0	0	0	0	(0	Û	0	0	0	0	6	
Washington:													
Seattle Spokane Tacoma	10 8 3	3 6 0	2 4 4	1 0 0		- 0	0	1 0 0	0 0 0	0	8 0 4	41	
Portland Salem	7 0	3 0	8 0	25 0		0	5 0	10	0	0 0	1 0	113	
Los Angeles Sacramento San Francisco.	27 2 16	40 13 12	4 2 1	0 0 1		000000000000000000000000000000000000000	38 2 19	1 0 0	3 0 0	1 0 0	38 0 5	349 31 173	
		Men	ingococ eningiti	cus s e	Letha	rgio alit	c .is	Pells	gra	Poliomy p	Poliomyelitis (infanti paralysis)		
Division, State, a	nd city	Case	es Dea	ths C	ases]	Dea	iths C	ases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
NEW ENGLAN Massachusetts:	D												

1

0

2

0

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0

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1

3

2

0

1

10

0

City reports for week ended January 5, 1929-Continued

New York: Buffalo.... New York 1.... New Jersey: Newark... Trenton... Pennsylvania: Philadelphia... Pittsburgh..... ¹ Typhus fever; 1 case at New York City.

MIDDLE ATLANTIC

New York:

11

1

1

City reports for week ended January 5, 1929-Continued

	Menin men	goeoccus ingitis	Letl encep	hargic halitis	Pel	lagra	Poliomyelitis (infantile paralysis)			
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths	
EAST NORTH CENTRAL										
Ohio:										
Cincinnati		0	0	0	0	0	0	0	0	
Toledo	0 - Ū	ō	ō	i i	ŏ	ŏ	ŏ	ŏ	ă	
Indianapolis	0		0	0	0	0		0		
Illinois:		10								
Michigan:	14	12	1	1.	U	0	U	U	0	
Detroit	13	5	2	1	0	0	0	0	0	
Milwaukee	2	1	0	0	0	0	0	0	0	
Racine		0	0	0	0	0	0	0	0	
Superior	U	1	U	U	v		U	U	Ű	
WEST NORTH CENTRAL					•					
Minnesota:									•	
Minneanolis	0	1	0	0	0	0	0	0	0	
St. Paul	Ô	Ô	Ô	î	ŏ	ŏ	ŏ	ŏ	ŏ	
Iowa: Sioux City	1	0	0	0	0			0	•	
Missouri:	-	Ŭ		Ĭ	Ŭ	Ů	Ŭ	Ŭ	Ŭ	
St. Louis	6 8	4	0	1	0	0	0	0	0	
North Dakota:	, i	Ů	, i	Ŭ			, i		v	
Fargo Nebraska:	3	0	1	1	0	σ	0	0	0	
Omaha	1	0	· 0	0	0	σ	0	0	0	
SOUTH ATLANTIC										
Maryland										
Baltimore	3	1	0	0	0	0	0	0	0	
District of Columbia:	,					<u>a</u> †			0	
Georgia:			Ň			Ĭ		Ĭ	•	
Savangan Florida:	0	0	0	0	1	1	0	0	0	
Tampa	0	0	. 0	0	1	0	0	0	0	
EAST SOUTH CENTRAL	1		·							
a final and a second se				1		1				
Memphis	1	1	0	0	o	0	ol	0		
Alabama:										
Montgomery	۰I	"	۳	U U	-				U	
WEST SOUTH CENTRAL	[ł		1	1	1	1		
Arkansas:							1			
Little Rock	0	0	0	0	0	1	0	0	0	
New Orleans	0	0	0	0	2	3	0	Q	0	
Texas:	2	0	0	0	0	0	0	0	0	
Houston	Ð	0	0	0	0	1	0	0	Ø	
San ABuonio	-	•	٩	U U	U	0			9	
HOUNTAIN					1		1			
Colorado:	.	. 1	<u> </u>			_ ł			-	
Utah:	- + t	- +	U	U I	0	U	0 j	0	a	
Selt Lake City	2	I	0	0	0	0	0	0	0	
PACIFIC		1		- I	ł			1		
California:								1		
Los Angeles	2	2	0	0	Q	0	0	<u>e</u>	1	
San Francisco	4	3	öl	ő	ŏ	e l	0	8	0	
	-1	-	-	-	-	- T	-1	- 1	-	

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended January 5, 1929, compared with those for a like period ended January 7, 1928. The population figures used in computing the rates for the week of 1929 and corresponding week of 1928 are approximate estimates as of July 1, 1929 and 1928, respectively, authoritative figures for many of the cities not being available. The 98 cities reporting cases had estimated aggregate populations of approximately 31,570,000 in 1929 and 31,050,000 in The 91 cities reporting deaths had nearly 30,000,000 esti-1928. mated population in 1929 and nearly 29,500,000 in 1928. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

Summary of weekly reports from cities, December 2, 1928, to January 5, 1929-Annual rates per 100,000 population compared with rates for the corresponding period of 1927-28 1

	•				Wee	k ended	I			
	Dec. 8, 1928	Dec. 10, 1927	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 81, 1927	Jan. 5, 1929	Jan. 7, 1928
98 cities	164	204	157	204	144	201	* 131	185	3 148	4 170
New England	209	216	216	200	159	193	170	165	163	149
Middle Atlantic	159	228	139	225	145	232	155	220	178	202
East North Central	190	227	209	247	166	212	\$ 132	200	153	176
West North Central	148	129	148	129	138	123	119	125	161	96
South Atlantic	139	189	121	139	117	143	• 101	128	7 111	160
East South Central	125	71	85	127	105	127	95	112	88	105
West South Central	256	215	248	215	· 188	339	172	261	\$ 95	243
Mountain	35	143	18	161	71	117	18	63	70	71
Pacific	100	167	61	167	95	157	43	141	60	123
		MEA	SLES C	ASE	RATES				.,	
98 cities	146	225	181	247	176	284	2 160 ·	321	* 197	4 510
New England	736	539	837	140	800	537	676	709	964	917
Middle Atlantic	46	199	91	205	68	250	77	330	80	468
Bast North Central	187	140	194	117	251	157	\$ 217	159	230	265
West North Central	193	49	271	46	224	38	201	46	198	135
South Atlantic	53	525	84	604	49	794	69	828	7 115	4 1. 403
East South Central	15	365	15	527	20	710	15	396	14	2 118
West South Central	40	132	12	248	12	83	4	112	1 29	203
Mountain	186	36	257	27	203	18	106	36	383	62
Pacific	43	178	64	238	- 49	256	84	282	40	384
<u> </u>	SC.	ARLET	FEVE	R CA	SE RAT	res				
98 cities	200	184	201	211	185	186	* 180	209	¥ 195	4 206
Num Rusland	007	001	000	000	041	001	000	040		
New England	237	321	223	320	241	281	305	340	240	340
Middle Atlantic	141	150	143	198	144	173	138	200	148	196
East North Central	200	216	290	243	234	212	• 204	257	239	263
west North Central	203	200	251	204	240	202	201	192	208	203
South Atlantic	165	133	149	162	161	144	• 129	148	' 155	• 158
East South Central	259	81	209	142	200	117	259	117	197	63
west South Central	216	116	172	170	100	91	160	124	• 133	101
Mountain	80	305	62	242	27	170	27	233	113	195
Pacific	197	151	181	154	197	191	151	125	185	184
			, ,					!!	!	

DIPHTHERIA CASE RATES

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the cases reported. Populations used are estimated as of July 1, 1929, 1928 and 1927, respectively.
² Cincinnati, Ohio and Greenville, S. C., not included.
⁴ Atlanta, Ga., not included.
⁴ Cincinnati, Ohio, not included.
⁴ Greenville, S. C., not included.
⁴ Brunswick, Ga., not included.
⁴ Brunswick, Ga., not included.
⁴ Brunswick, Ga., not included. the number of

Summary of usekly reports from cities, December 2, 1928, to Jenuary 5, 1929— Annual rates per 100,000 population compared with rates for the corresponding period of 1927-28—Continued

SMALLPOX CASE RATES

					Week	nded-				
ange ent	Dec. 8, 1928	Dec. 10, 1927	Dec. 15, 1928	Dec. 17, 1927	Dec. 22, 1928	Dec. 24, 1927	Dec. 29, 1928	Dec. 31, 1927	Jan. 5, 1929	Jan. 7, 1928
96 cities	4	13	8	19	8	16	34	15	*3	4 17
New England Middle Atlantie Best North Central West North Central South Atlantie East South Central West South Central Montain Pacific	2 0 10 20 20 4 0 8	0 4 75 7 5 8 99 39	0 0 16 2 5 24 44 20	0 0 17 115 5 5 0 117 31	2 0 4 6 0 0 40 44 56	0 12 77 20 12 20 12 99 26	2 0 4 3 10 6 2 5 12 35 15	0 0 12 79 4 10 4 143 29	0 1 2 70 7 5 35 5	0 9 106 13 7 16 106 26

TYPHOID FEVER CASE RATES

98 cities	9	11	5	8	4	11	35	7	34	• 5
New England Middle Atlantic East North Central West North Central South Atlantic East South Central Mountain	5 7 4 7 20 48 0	12 8 9 14 9 30 21 9	7 4 1 4 5 15 16 9	0 8 3 6 9 35 17 18	2 4 1 2 7 5 8 9	9 10 8 8 16 25 17 9	2 4 5 6 5 5 8 9 9	14 4 5 10 13 10 21 18	5 2 3 0 79 0 85 9	7 3 3 2 4 17 28 0 9

INFLUENZA DEATH RATES

								and the second se		
91 cities	48	12	76	14	112	17	2 173	19	³ 230	4 20
New England	9	9	9	12	14	5	14	5	48	16
Middle Atlantic	17	7	27	9	66	11	129	14	165	13
East North Central	18	9	44	11	124	13	\$ 206	10	238	10
West North Central	43	6	116	6	147	10	169	8	240	6
South Atlantic	51	16	95	14	123	20	6 262	22	7 345	4 23
East South Central	. 58	58	68	64	58	48	193	58	970	130
West South Central	53	47	94	55	209	72	373	81	\$ 555	83
Mountain	513	9	734	9	593	27	265	72	218	53
Pácific	294	3	317	17	213	24	182	31	134	24

PNEUMONIA DEATH RATES

				_			_			
91 cities	156	110	212	118	241	135	² 303	156	³ 381	4 175
New England	80	51	108	102	159	121	159	146	201	103
Middle Atlantic	149	119	190	117	246	126	293	158	395	186
East North Central	135	97	171	97	255	105	5 385	135	466	140
West North Central	126	99	212	91	295	97	242	108	216	187
South Atlantic	165	135	237	161	226	182	6 333	184	7 353	4 238
East South Central	282	154	188	149	183	213	246	191	533	268
West South Central	176	102	181	191	250	229	402	306	⁸ 693	241
Mountain	336	215	628	134	398	242	363	197	174	195
Pacific	294	110	223	131	169	166	169	138	148	175

² Cincinnati, Ohio, and Greenville, S. C. not included.
³ Brunswick, Ga., and Dallas, Tex., not included.
⁴ Atlanta, Ga., not included.
⁴ Cincinnati, Ohio, not included.
⁶ Greenville, S. C., not included.
⁸ Brunswick, Ga., not included.
⁹ Dallas, Tex., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities of each group, approximated as of July 1, 1929 and 1928, respectively

Group of cities	Number of cities reporting	Number of cities reporting	Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
	Cases	deaths	1929	1928	1929	1928
Total Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	98 12 10 16 12 19 6 8 9 6	91 12 10 16 9 19 5 5 7 9 4	31, 568, 400 2, 305, 100 10, 809, 700 8, 181, 900 2, 712, 100 2, 783, 200 767, 900 1, 319, 100 568, 800 2, 090, 000	31, 052, 700 2, 273, 900 10, 702, 200 8, 001, 300 2, 673, 300 2, 732, 900 745, 500 1, 289, 900 590, 200 2, 043, 500	29, 995, 100 2, 305, 100 10, 809, 700 8, 181, 900 1, 736, 900 2, 783, 200 704, 200 1, 285, 000 598, 800 1, 590, 300	29, 498; 000 2, 273, 900 10, 702, 200 8, 001, 300 1, 708, 100 2, 732, 900 682, 400 1, 256, 400 590, 200 1, 551, 200

FOREIGN AND INSULAR

THE FAR EAST

Report for the week ended December 29, 1928.—The following report for the week ended December 29, 1928, was transmitted by the eastern bureau of the health section of the secretariat of the League of Nations, located at Singapore, to the headquarters at Geneva.

Plague, cholera, and smallpox were reported at the following ports:

PLAG	UE			
India.—Bombay—plague Siam.—Bangkok—death pore, arriving at Bangkok.	on	ected ra vessel	ts. from	Singa-

CHOLERA

India.—Tuticorin, Negapatam. Siam.—Bangkok. Indo-China.—Saigon.

SMALLPOX

India.—Bombay, Negapatam. French India.—Pondicherry. Indo-China.—Saigon. Dutch East Indies.—Samarinda. China.—Hong Kong, Shanghai.

CANADA

Provinces—Communicable diseases—Week ended December 29, 1928.—The Department of Pensions and National Health reports cases of certain communicable diseases from six Provinces of Canada for the week ended December 29, 1928, as follows:

Disease	Nova Scotia	New Bruns- wick	Quebec	Ontario	Mani- toba	Sas- katch- ewan	Total
Cerebrospinal fever				1			1
Influenza				4, 125	17	42	4, 184
Smallpox			8	1	2	6	17
Typhoid fever	1	2	4	8		1	16

Nova Scotia—Smallpox outbreak, January 14, 1929.—Twelve to fifteen cases of smallpox were reported, January 14, 1929, near Shubenacadie, Nova Scotia, Canada, in a district which supplies milk to Halifax. The type of the disease was said to be virulent. Quarantines have been established at several houses, and the milk supply from a number of dairies was stopped by the authorities.

Ontario Province—Influenza—Week ended December 29, 1928.— During the week ended December 29, 1928, 4,125 cases of influenza were reported in the Province of Ontario, Canada. There was no unusual virulence, and complications were few.

25500°--29-----3 (4

Quebec Province—Communicable diseases—Week ended December 29, 1928.—The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended December 29, 1928, as follows:

Disease	Cases	Disease	Cases
Chicken pox Diphtheria. German measles Influenza Measles Poliomyelitis	22 51 1 529 20 1	Scarlet fever	58 8 66 4 11

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

From medical officers of the Public Health Service, American consuls, health section of the League of Nations, and other sources. The reports contained in the following table must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given:

CHOLERA

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

	May			July	Aug.	Sept.					Veek ei	pep				
Place	9 <u>9</u> 4	June 3-30, 1928	July 1-28, 1928	¢ äs	s jest	ห่อัส	oet.	4	lovemb	er, 1928			Deo	ember,	828	,
	8741			1928	1928	1928	27, 1928	3	. 10	17	28	-		15	ส	8
Ceylon: Colombo																
Ingiriya Province			-													
China: Canton			00				1								CN -	
Kwantung-Dairen		N	ø	N	- 69 -										-	
Shanghai				3	- 01 0	•										
Bwatow Dintoh Past Indiae: Teve. Belevia		3	2	-	°	0										
	30, 177 20, 162	31, 346 20, 114	44, 240 23, 216	52, 786 26, 967	32, 287 17, 731	17, 028 10, 187	4, 976 3, 226	5, 771 3, 096	4, 714	5, 476 3, 279	5, 581 3, 369					
Bombay	₽	ø	9	6	9	12					~ ~					
Calcutta	552 410	462 323 323	18881 18881	283	*85	-48	នន	48:	83	83	.2 Z	23	1 8	2		
Madras Presidency	1, 314	878 21 28 28	31	112	<u>7</u> 38	38	88	2 2	52	31	22	12	-0-	9 °		
D Moulmein Neespatam	675 675	460														
D Rangoon.	~	2 4 0		<u>ہ</u> تو م	- 00						4.5	•				
Tuticorin D			-	01	1				1		•		1		88	98 98
Vizagapatam			2	31	2											

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

CHOLERA-Continued

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

			and the second se	the second s												
	May			July	Aug.	Sept.				æ	eek end	pel				
Place	9 1 1 6	June 3-30, 1928	July 1-28, 1928	Åųč.	ßept.	ซู <u>รุ</u> ย	oet.	Ż	ovembe	, 1928			Decer	nber, 19	8	
	1928			1928	1928	1928	1028	8	9	11	*		c 0	18	ន	8
India (French): Chandernagor Karikal			нн н н яза ээр н я	8 ⁴ 288%	88878 888 888 888 888 888 888 888 888 8	1 1 1 1 1 1	40.00 40 40	884444		8400	<u>జ</u> ారాజులు	₩₩ ₩				
Sanchez-Mira		4.01														

Pangasinan Province-BayambangC [1				-							
Burleso Province-Surleso		1 3											
	600	1 1 1 1 1 1 1 1	10			1	-	10	8				6
DI	3 1	89 89 88	11	19	a 0	200	• •••	900	12				34
Anthoang							-	<u> </u>	-		-	*	
Ayudhaya	5	8	1	2	6	10	-			2		• •••	2
Bangkok.		- 6 - 8 - 7	- 10	94	8	л н	- 01	5	80	21 4	4	- 6 (- 00 -
Dhannapuri	4	8					-	7	2		44	~ ~ ~ ~	
Lobpuri			2								* 	-	"88
Nondpuri							$\frac{1}{1}$		$\frac{1}{1}$				34,
Smud Prakar									$\frac{11}{11}$		- 14	19	- 0
Smud Sagara						6		17	16	12	0 00 1	4	•
Trad.	-					0	-	•	•	0	°		
On vessel: 8. 8. Glenapp, at Yokohama, from Shanghal. C 8. 8. Kambangan at Batavia from Jedda-via	•		Ч.										
Sabang and ratemoang		- A											
	January-	April-	Julv.	-nv	Sep-	Oct	ober, 19	8	ů	vember,	1928	Decemb	er, 1928
eyer 1	Marcn, 1928	1928	1928	gust, 1928	1928 1928	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20
Indo-China (French) (see also table above): Annan	389 312 1,407 1	128 1,666 1,666 1,666 16	16 155 153 153 153	15881	4.5.8	460	89.0°2	50	27	4.8	5 17 81		21 351

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

PLAGUE

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

•

											Week e	-pepu					1
Place	May 6- June 2, 1928	June 8-30, 1928 ,	July 1-28, 1928,	July 29- Aug. 26, 1928	Aug.26- Sept. 22, 1928	Sept.28- Oct. 20, 1928	Oet.		ovemb	ar, 1928			Decen	nber, 1	880		, in the second se
	•						27, 1928	3	10	17	*	-	80	15	ង	8	5, 19 29
Algeria (see also table below): Algeria (see also table below):								6									
Philippeville.	-	2				-9				6							
	~&											İİ	ÎÌ	Ħ	İİ	İİ	
Argentina.4 Avellaneda																	
Buenos Aires 2.		- 6															
Catamarca Province: Recreo		' 							р.				•				
Canada Honda									1				T	Ì	İ		1
Latro Rice Perico		•											Î		İİ		1
Loreto.	ю ні	ſ											İİ		İ	-	1
Santiago del Estero	e	°9					-						ÌÌ				
Trueuman Province—El Mollar	9				69	~	69	1					10				
Belglan Congo: Djugu	-						* **										
Lenus. Valle Grande. Boltyris: Valle Grande. Bradi: Bradia.	60			<u>Р</u> ,							-					-	
Dritish East Africa (see also table below):	•••					•											
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reported at Uniplon and 1 at Ucauna, both in Cordoba Province, Argentina. ¹ 18 plague-infected rats were reported at Buenos Aires, Argentina, from July 1 to Dec. 31, 1928.

January 25, 1929

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

PLAGUE-Continued

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

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Place	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	July 29- Aug. 25, 1928	Aug.26- 8ept. 22, 1928	Sept.23- Oct. 20, 1928	Set.	Ň	ovembei	, 1928			Decem	lber, 1	8		g.
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Madras Fresidency		2,22	8 G	212	317	951	816	132 48	135	1 8				_			: :
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Vizagapatam		87	80	8	61	0		- -									: :
Indo-China (see also table below): Promranh				-	¢	-				-			-	-			!
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Peru (see table below).	 		•										<u> </u>		-		:
Senegal (see also table below): Nies and vicinity													<u> </u>	_		_	:
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

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

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PLAGUE RATS ON VEBSELS Steamship Sicily at Liverpool from Buenos Aires and Rosario, June 8, 1928, seven plague-infected rats.

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

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ungola (see table below). Lrabia: Aden		п			-		į			1	-							
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January 25, 1929

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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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Greece (see table below). Hedjaz	•	1	18	-	-	•		-	-				-					
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Latvia (see table below). Malta: ValettaC	-					1										$\left - \right $
Mexico (see also table below): Acapulco:	86															
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FEVER-
YELLOW
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K, TYPH
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SMALLPOX—Continued [O indicates cases; D, deaths; P, present]

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Tampico					•				-									
Morocco (see table below). Nigeria (see also table below):						4				<u> </u>				 				
Lagos Provinces		- 2						T	-					$\frac{1}{1}$		T	Ħ	
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Portugal (see also table below): Lisbon	~	~	00							-							\square	
Senegal (see also table below): Datar	8	00	-	-														
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January 25, 1929

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

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

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Place	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	25. Aug. 29.	s gan	ਖ਼ <mark>ୖ</mark> ବୃଁଶ୍	Oet.	ž	vembe	r, 1928			Decen	iber, 19	8	
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