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# PUBLIC HEALTH REPORTS

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DECEMBER 28, 1928

NO. 52

## INFLUENZA PREVALENCE IN THE UNITED STATES

In California, where the outbreak of influenza apparently started, the reports for the week ended December 15, 1928, showed a decided reduction in the number of cases as compared with the preceding week.

Generally, however, there was more than the usual seasonal increase in the prevalence of influenza throughout the United States with the possible exception of the northeastern section. The increase over the preceding week was especially noticeable in Kansas, which reported nearly 69,000 cases for the week ended December 15; Missouri, reporting nearly 12,000 cases; North Dakota, with 7,000; and Indiana and Illinois, with more than 2,000 reported cases in each State. (See table on page 3442.)

It is evident that many cases are not reported, owing partly, at least, to the very mild nature of the disease.

The Department of Health of the State of Ohio sent a questionnaire to local health officers in that State. Estimates received from 104 out of 181 districts totaled 47,000 cases of influenza. A bulletin dated December 15, 1928, issued by the State Department of Health of Ohio states that "the type of influenza generally prevailing is quite mild and has led to a confusing differentiation of diagnosis of colds, la grippe, and influenza. It is the general belief that the present form is not a pneumonia-developing type and very few cases of pneumonia have been reported."

A telegraphic report from San Francisco, Calif., dated December 12, says that there was no marked resemblance between the cases in San Francisco this year and cases which have occurred during severe pandemics. The disease in California was said to resemble the mild cases seen in 1916 and in nonpandemic outbreaks since 1919.

A report from Montana states that as the number of cases decreased in some places the percentage of severe cases became somewhat greater.

The table on pages 3437 to 3439 shows the numbers of deaths from influenza and pneumonia in 78 large cities of the United States from October 28 to December 15, 1928, by weeks.

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In 63 large cities of the United States the general death rate from all causes for the week ended December 15 was 15.2 per 1,000 population. This is a considerable increase over the rate for the preceding week (13.3 per 1,000), but, in view of the widespread prevalence of influenza, it seems to indicate that the disease is comparatively mild in type.

## PRINCIPAL CAUSES OF DEATH, 1927

The Department of Commerce announces that 1,236,949 deaths occurred in 1927 within the death registration area of continental United States, representing a death rate of 11.4 per 1,000 population—the lowest since 1900.

This area in 1927 comprised 42 States, the District of Columbia, and 21 cities in nonregistration States, with a total estimated population on July 1, 1927, of 108,327,000, or 91.3 per cent of the estimated population of the United States.

The principal decreases in death rates in 1927 were from pneumonia (all forms) from 103 to 81 per 100,000 population; influenza, from 41 to 23; tuberculosis (all forms), from 87 to 81; diarrhea and enteritis (under 2 years), from 27 to 22; nephritis, from 98 to 93; measles, from 8 to 4; and diseases of the heart, from 199 to 196.

An increase is shown in 1927 in the death rate from automobile accidents, from 18 to 20 per 100,000 population.

The following table shows for the death registration area in continental United States in 1926 and 1927 the number of deaths and the death rates per 100,000 population from leading causes.

	De	Deaths in registration area					
Cause of death	Nun	aber	Rate per 100,000 es timated population				
• .	1927	1926	1927	1926			
All causes 1	1, 236, 949	1, 285, 927	1, 141. 9	1, 222.7			
Typhoid and paratyphoid fever	5, 905 2, 875	6, 826	5.5 2.7	6. 5			
Smallpox	2,875	2,006 377	0.1	0.4			
Measles	4. 433	8,607	41	8.			
Scarlet fever	2.440	2,662	2.3	2.			
Whooping cough		9, 317	6.9	8.			
Diphtheria	8, 426	7,856		7.			
nduenza	24, 471	42, 809		40.			
Dysentery Erysipelas	2, 605	2, 921		2. 2.			
Erysipelas Lethargic encephalitis	2, 567 1, 326	2,680 1,499	2.4 1.2	í.			
Meningococcus meningitis	1, 705	1, 413		î.			
Cuberculosis (all forms)	87, 567	91, 568		87.			
Of the respiratory system	77, 195	80, 375		76.			
Of the respiratory system Of the meninges, central nervous system	3,583	3,788		3.			
Other forms.	6,839	7,405		7.			
Byphills *	15,976			15.			
Cancer and other malignant tumors	103, 578	99, 838.		94.			

Exclusive of stillbirths.
 Includes tabes dorsalis (locomotor ataxia) and general paralysis of the insane.

	Deaths in registration area						
Cause of death	Num	per	Rate per 1 timated pe				
	1927	1926	1927	1926			
Rheumatism	4, 177	4, 219	3, 9	4.0			
Pellagra	5, 418	3, 854	5.0	3.7			
Die beteg mellitus	18, 937	18, 881	17. 5	18.0			
Meningitis (nonepidemic)	3,084	3, 219	2.8	3. 1			
Corebral hamorrhage and softening	91,001	90, 832	84.0	86.4			
Paralysis without specified cause	5,006	5, 732	4.6	5. 5			
Diseases of the heart	211, 976	209, 370	195. 7	199. 1			
Diseases of the arteries, atheroma, aneurysm, etc	23, 615	23, 698	21.8	22. 5			
Bronchitis	5, 851	6, 961	5.4	6.6			
Preumonia (all forms)	87, 230	107, 797	80.5	102. 5			
Respiratory diseases other than bronchitis and pneumonia	,						
(all forms)	9, 111	9, 202	8.4	8.7			
Diarrhea and enteritis	29, 899	35, 296	27.6	33, 6			
Diarrhea and enteritis (under 2 years)	23, 382	28, 374	21.6	27. 0			
Diarrhea and enteritis (2 years and over)	6, 517	6, 922	6.0	6.6			
Appendicitis and typhlitis	16, 205	15, 751	15.0	15.0			
Hernia, intestinal obstruction	11, 309	11, 734	10.4	11. 2			
Cirrhosis of the liver	8,098	7, 591	7.5	7. 2			
Nephritis	100, 163	103, 332	92.5	98.3			
Puerperal septicemia	5, 715	5, 518	5.3	5. 2			
Puerperal causes other than puerperal septicemia	9, 145	9, 540	8.4	9. 1			
Congenital malformations and diseases of early infancy	73, 365	75, 239	67.7	71. 5			
Spicide	14, 356	13, 410	13.3	12.8			
Homicide	9, 470	9, 210	8.7	8.8			
Accidental and unspecified external causes	84, 980	82, 715	78.4	78. 7			
Burns (conflagration excepted)	6,089	6, 487	5.6	6. 2			
Accidental drowning	7, 296	6, 661	6.7	6. 3			
Accidental shooting	2,741	2, 593	2.5	2. 5			
Accidental falls.	15, 152	14, 681	14.0	14. 0			
Mine accidents	2,690	2, 825	2.5	2.7			
Machinery accidents	2 124	2, 224	20	21			
Railroad accidents	6.892	7, 026	6.4	6.			
Collision with automobile	1,676	1, 556	1.5	1. 8			
Other railroad accidents	5, 216	5, 470	4.8	5. 2			
	1, 452	1, 621	1.3	1.			
Street-car accidents  Collision with automobile	476	464					
Other street-car accidents	976		1 .4	1, 1			
Automobile accidents (excluding collision with railroad	310	1, 157	.9	1. 1			
	91 160	10 071	19.5	17. 9			
trains and street cars) Injuries by vehicles other than railroad trains, street	21, 160	18, 871	19.5	17.1			
	1 500	1 507	1	•			
cars, and automobiles 3	1, 593	1, 507	1.5	1.4			
Excessive heat (burns excepted)	530	646	15.5				
Other external causes	17, 261	17, 573	15.9	16.			
All other defined causes	118, 314	117, 278	109. 2	111.			
Unknown or ill-defined causes	19,060	18, 708	17.6	17. 8			

<sup>&</sup>lt;sup>3</sup> Includes airplane, balloon, and motor-cycle accidents.

# MORTALITY FROM AUTOMOBILE ACCIDENTS, 1927

The Department of Commerce announces that in the registration area in continental United States there were 21,160 accidental deaths in 1927 charged to automobiles and other motor vehicles (excluding motor cycles), and that the death rate from this cause was 19.5 per 100,000 population against 17.9 in 1926, 17 in 1925, 15.7 in 1924, and 14.9 in 1923.

It should be noted, however, that the deaths assigned to automobile accidents do not include those due to collisions of automobiles with street cars and with railroad trains. Therefore, as in 1927 there were 476 deaths due to collisions of automobiles with street cars and 1,676 due to collisions with railroad trains, these deaths if

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added to the 21,160 assigned to automobile accidents would make for the registration area a grand total of 23,312 deaths due to accidents in which automobiles were involved and would raise the rate from 19.5 to 21.5 per 100,000 population.

As in 1927 the registration area included only 91.3 per cent of the total population of the United States, by assuming that the number of deaths from automobile accidents reported in the registration area comprises 91.3 per cent of the number of deaths from automobile accidents in the entire United States, it may be estimated that the total number of deaths in that year due to accidents in which automobiles were involved was approximately 25,533.

In the 37 States for which data are available for the 5-year period 1923 to 1927, the number of these deaths as shown in the attached table increased from 13,812 in 1923 to 19,555 in 1927, and the corresponding rates were 15 and 19.8.

In the 68 cities for which similar data are available, the number of deaths increased from 5,617 in 1923 to 7,246 in 1927, and the rate increased from 19.1 to 23.

As has been frequently pointed out, uncorrected figures of deaths from automobile accidents, especially in cities, may be very misleading, because fatal accidents frequently occur outside city limits, though the injured are hurried to the city hospitals and so increase the city death rate. The third and fourth columns in the table show how many such deaths are known to have occurred in 1927 and 1926, but for many of the cities these figures should undoubtedly be much larger, since the place of the accident is not always reported on the death certificate. How important this factor may be, however, is well illustrated by the figures for Camden, N. J., Hartford and New Haven, Conn., and Wilmington, Del., for 1927, and for Camden and Trenton, N. J., and Wilmington, Del., in 1926, which show that more than half of the deaths were due to accidents which occurred outside of the city.

Deaths and death rates in the registration area in continental United States, registration States, and 68 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles: 1925 to 1927

[For each year total deaths are shown regardless of place of accident. For 1926 and 1927 deaths are also shown where accidents are known to have occurred outside of State or city limits]

#### NUMBER OF DEATHS

State	Tot	al	From ac outs			Total	
	1927	1926	1927	1926	1925	1924	1923
Registration area	21, 160	18, 871			17, 751	15, 528	14, 411
Registration States 1	20, 704	18, 419	3		17, 149	15, 221	14, 157
Alabama	361	319			252	(2)	(2) (2)
Arizona	140	<b>116</b>	2 3	(2)	(2)	8	
Arkansas	170	(1)		(*) 2	(3) 1, 327	1, 254	(²) 1, 239
California	1, 628 234	1, 464 175	1	2	1, 327	158	1, 238
Colorado	327	307	2	1 4	340	277	249
Connecticut	62	50	ĺ	1 2	37	46	55
Delaware	425	515	2	3	449	242	170
Georgia	(1)	(9)	(9)	(9)	(3)	307	259
Idaho	76	77	' 1	\ \ \ \ 1	`´ 56	54	51
Illinois	1. 512	1, 338	5	13	1, 268	1,065	1,031
Indiana	665	547	4	6	509	480	433
Iowa	284	264	5	6	271	211	242
Kansas	253	241	2	4	240	169	217
Kentucky	299	277	6	4	237	197	166
Louisiana	295	271		. 2	241	210	158
Maine	112	100		1	98	91	91
Maryland	330	312	5	4	. 271	246	243
Massachusetts	696	682	8	7	729	685	611
Michigan	1, 266	1, 112		3 7	955	863	738 328
Minnesota	369	326	6	4	361 170	366 125	32 78
Mississippi	243	215	3 6	10	509	449	396
Missouri	517	493 93	l	10 2	84	69	49
Montana	73 198	154	1 4	5	125	113	12
Nebraska	71	68	4	6	87	61	56
New Hampshire	973	792	5	9	771	746	67
New York	2, 384	2, 178	1 11	8	2,111	1, 985	1.93
North Carolina	503	455	4	Ž	376	328	25
North Dakota	72	70	1	. 3	59	45	(7)
Ohio	1, 494	1.317	13	13	1,285	1,024	1,07
Oregon	194	187		_ 1	144	144	12
Pennsylvania	1,860	1,734	15		1,576	1,535	1, 59
Rhode Island	131	127	1	11	133	113	9
South Carolina	279	192	1		179	167	11
Tennessee	345	312	23		278	232	17
Utah	79	80		- 1	89	81	6
Vermont	- 60	45			_ 56	48	20
Virginia	376	303	6			240	20
Washington	365	342	1			265	
West Virginia	298	231	6			363	(1)
Wisconsin	511	384	2	3		59	29
Wyoming	, 66	56		i -	67	99	۰ ،

<sup>\*</sup> As the place of accident was not always reported, the figures given as outside State or city limits are doubtless too small in some cases. Therefore, the figures in the third and fourth columns must be regarded merely as minimum numbers.

! Including District of Columbia.
2 Not added to the registration area until a later date.
3 State registration law declared unconstitutional; State excluded from area in 1925.

Deaths and death rates in the registration area in continental United States, registration States, and 68 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles: 1923 to 1927—Continued

RATE PER 100.000 ESTIMATED POPULATION

State	1927	1926	1925	1924	1923
Registration area	19. 5	17. 9	17. 0	15. 7	14. 9
Registration States 1	19. 4	17. 8	16. 9	15.6	14.8
labama	14. 2	12.6	10.1	93	(2) (2)
rizona	30. 5	26.1	(2)	S2 1	(²)
rkansas	8.8 36.7	33, 9	31.7	32.0	(a)
California	21.8	16.5	14.0	15.7	32.6
Colorado Connecticut	20.0	10.5	21.6	18.4	15.9
onnecticut		20.8			16.9
Delaware	25. 5		15. 5	19.8	23. 9
lorida	31. 2	39.1	35. 5	19.7	16. 2
de ho	(3)	(3)	(9)	10.1	8.6
daho			11.0	11.2	10.8
llinois	20.7	18.6 17.5	17. 9 16. 4	15.5	15. 2
ndiana	21.1	10.9		15.8	14.4
0W8	` 11.7		11.2	8.7	9.8
Kansas	13.8	13. 2	13. 2	9.4	12, 1
Kentucky		11.0	9.4	8.0	6. 7
ouisiana.	15.3	14.1	12.7	11.3	8. 5
Maine	14.1	12.7	12.5	11.7	11.7
Maryland	20.7	19.7	17. 4	16. 2	16.1
Massachusetts		16.2	17.6	16.7	15.
Michigan	28.2	25.3	22. 3	21. 2	18.6
Minnesota		12.3	13.8	14.5	13.
Mississippi		12.0	9.5	7.0	4.
Missouri	14.7	14.1	14.6	13.0	11.
Montana	10.2	13.4	12.5	11.0	8.
Nebraska	14.2	11.1	9. 1	8.4	9.
New Hampshire	15.6	15.0	19. 2	13.6	13.
New Jersey	26.0	21.5	21.4	21.7	19.
New York	20.9	19.3	18. 9	18.0	17.
North Carolina		15.9	13.4	12.0	9.
North Dakota	11.2	10.9	9. 2	7.0	(2)
Ohio	. 22.3	20.0	19.9	16.5	17.
Oregon	. 21.8	21. 3	16.7	17.3	14.
Pennsylvania		18.0	16.6	16.7	17.
Rhode Island	. 18.6	18.3	19.6	16.9	15.
South Carolina	. 15. 1	10.5	9. 9	9.5	6.
Tennessee	. 13. 9	12.6	11.4	9.6	7.
Utah	. 15. 1	15.6	17.7	16.7	12.
Vermont	. 17. 0		15. 9	13.6	13.
Virginia	14.8		10.9	9.9	8.
Washington	_ 23.4		19.8	18.2	16
West Virginia.	. 17. 6	13.8	12.7	(2)	(2)
Wisconsin	17. 5	13. 3	13.9	13.1	1 10
Wyoming	27.4	23.7	29. 3	27.2	24

#### NUMBER OF DEATHS

City	Tot	al	From ac outsi			Total	
	1927	1926	1927	1926	1925	1924	1923
Total of the 68 cities of 100,000 population or more in 1920	7, 246	6, 699	1, 011	1, 018	6, 413	5, 886	5, 617
Akron Albany Atlanta Baltimere Birmingham Boston Bridgeport	75 36 65 171 51 140 25	62 41 68 178 57 149 31	27 18 15 30 23 20 4	13 17 17 42 25 19	60 35 65 158 51 154 26	39 28 53 129 55 143 21	40 27 55 131 49 133 23

<sup>&</sup>lt;sup>1</sup> As the place of accident was not always reported, the figures given as outside State or city limits are doubtless too small in some cases. Therefore, the figures in the third and fourth columns must be regarded merely as minimum numbers.

Including District of Columbia.
 Not added to the registration area until a later date.
 State registration law declared unconstitutional; State excluded from area in 1925.

Deaths and death rates in the registration area in continental United States, registration States, and 68 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles: 1923 to 1927—Continued

#### NUMBER OF DEATHS-Continued

City	Tot	al	From ac outs			Total	
J.,	1927	1926	1927	1926	1925	1924	1923
Buffalo	137	135	21	23	119	112	137
Cambridge	28	19	3	4	22	27	28
Camden	65	59	45	34	43	36	44
Chicago	787	693	24	20	645	560	589
at	119	109	17	8	115	85	102
Cleveland	250	265	10	11	231	220	203
	72	70	13	14	71	59	58
Dallas Dayton	49	61	15	13	59	36 26	34
Dayton	44   61	52 48	21 14	13 11	44 37	40	27 45
Denver Des Moines	30	30	3	5	23	17	18
Detroit	403	399	ş	41	346	305	252
Fall River	111	19	3	7	17	16	22
Fort Worth	31	30	4	6	32	27	9
Grand Rapids	35	32	10	9	45	31	27
Hartford	49	46	25	19	53	33	40
Houston.	57	40	17	7	31	31	25
Indianapolis	84	83	18	15	78	71	53
Jersey City	65	41	1	7	64	56	37
Jersey City Kansas City, Kans	20	. 8	7	3	27	18	12
Vancor City, MO	80	82	. 8	.9	87	87	86 224
Louisville	353	286	24	74	258	267 58	66
Louisville	81	64	15 4	15	64 26	23	18
Lowell	16 68	22 57	29	6 28	52	40	46
Memphis	121	101	20	10	102	83	62
Milwaukee	64	69	12	16	76	86	60
Mocharilla	46	39	13	17	38	34	25
Newark, N. J	122	109	9	ii	110	104	107
New Bedford	16	11	Š	2	18	13	8
New Haven	48	42	25	15	40	48	25
New Orleans	96	85	25 29 8 1	23	78	84	68
New York	1,099	1,082	8	8	1,060	1,000	964
Bronx Borough	156	119	1	(2)	117	122	120
Brooklyn Borough	349	338	3	(i) (i) (i)	341	327	270
Manhattan Borough	461	494	3	1 2	484	439	474
Queens Borough	108	102 29	1	1 22	102 16	90 22	60
Richmond Borough	25 35	29 25	15	9	24	16	1:
NorfolkOakland	53	51	. 4	3	44	49	5
Omaha	49	33	l š	9	35	29	4
Paterson	52	34	16	14	41	49	39
Philadelphia	324	329	lii	7	296	263	29
Pittsburgh	215	163	39	38	166	186	144
Portland, Oreg	62	52	14	9	42	41	3
Providence	64	61	17	24	79	58	5
Reading Richmond	30	19	14	7	19	24	2
Richmond	46	37	16	17	41	33	2
Rochester	. 62	65	13	12	54	48	16 16
St. Louis	159	172	15	18	201	197	5
St. Paul	57	46	11	5 9	42	55 34	2
Salt Lake City	30 48	33 40	6 15	12	39	22	3
San Antonio	166	128	13	27	105	113	10
Scranton	34	32	8	8	33	24	4
Seattle	79	69	ğ	l š	66	53	5
Snokane	21	27	4	5	21	22 27 41	Ĭ
Springfield, Mass	24	38	10	13	21	27	2
Syracuse	43	44	17	13	21 21 29 67 39	41	4
Toledo	108	74	25	24	67	46	6
Trenton	40	33	25 13 29 22	17	39	34	] 3
Washington, D. C	108	98	29	22	- 88	108	1 8
Washington, D. C	40	29 32	22	17	21	29	2
Worcester	. 46	32	14	13	40		1 3
Yonkers	. 25	19	1,1		- 15	16	5 1 2 4 6 3 8 2 3 3 1
Youngstown	. 56	42	15	11	43	39	1 3

<sup>&</sup>lt;sup>2</sup> Not separately tabulated.

Deaths and death rates in the registration area in continental United States, registration States, and 68 cities, from accidents caused by automobiles, motor trucks, and commercial motor vehicles: 1923 to 1927—Continued

RATE PER 100,000 ESTIMATED POPULATION

City	1927	1926	1925	1924	1923
Total of the 68 cities of 100,000 population or					
more in 1920	23.0	21.7	21. 1	19.8	19.
kron	(¹) 30, 1	(¹) 34. 5	(¹) 29, 7	(1) 23. 9	(1)
lbany tlanta	30. 1 26. 1	34. 5	29.7	23.9	23.
altimore	20. 1	22.0	19.8	(¹) 16.4	24. 16.
irmingham oston	23. 4	27.1	24.8	27.4	25.
oston ridgepo <b>rt</b>	17.7	18.9	19.8	18.4	17.
uffalo	`24.9	(¹) 24. 8	(¹) 22. 1	(¹) 21. 0	(¹) 25,
ambridgeamden	22. 6 48. 8	15.6 45.1	18. 4 33. 3	22. 8 28. 5	25,
hicago	25.4	22.7	21. 5	19.0	35. 20.
incinnati	28.9	26.5	28.1	20.8	25.
levelandolumbus.	25. 7 24. 7	27.6 24.5	24. 7 25. 4	24. 1 22. 0	22. 22.
allas	23. 2	30.1	30.4	19. 2	18
ayton	24. 3 21. 0	29. 4 16. 8	25. 4 13. 2	15.4	16
enver es Moines	20.1	20.6	16. 3	14.5 12.1	16 12
etroit	30. 2	30.9	27.8	25. 5	(1)
all River	8. 3 18. 9	14. 5 18. 8	13. 2 20. 6	12.5 18.2	18
ort Worthrand Rapids	21.6	20. 5	29. 2	20.9	18
artford	29.1	28.0	33.1	21.1	2€
ouston	(1) 22.4	(1) 22, 6	(¹) 21. 7	19. 4 20. 2	16
arsey City. ansas City, Kans.	20. 2	12.9	20.3	17.9	13
ansas City, Kans	17. 0 20. 9	6.8	23. 3 23. 7	15.6	10
ansas City, Moos Angeles	(1)	21.8	(1)	24. 2	(1)
ouisville owell.	25.8	20.6	`21.2	19.8	2
owell femphis	14. 5 38. 0	19. 9 32. 3	23. 6 29. 7	20.8 23.2	1. 2
filwaukee	22.6	19.5	20.0	16.8	1:
finneenalie	14.3	15.9	17.9	20.6	1.
iashville lewark, N. J lew Bedford	33. 4 26. 1	28. 5 23. 7	27. 9 24. 3	27. 5 23. 3	2
New Bedford	13. 4	9.2	15.1	10.9	
Vew Haven	26. 0 22. 6	23.1	22.3	27.3 20.5	1
lew York	18.4	18.3	18. 8 18. 0	17.2	1
Bronx Borough	16.8	13. 2	13. 4	14.4	1
Brooklyn Borough Manhattan Borough	15. 3 25. 4	15. 1 26. 3	15. 5 24. 9	15. 1 21. 9	1 2
Queens Borough Richmond Borough	13.3	13.4	14.3	13.4	1
Richmond Borough	17. 1	20.3	11.6	16.3	1
Vorfolk	19. 5 19. 8		14. 2 17. 3	19.8	2
maha	22.4	15.3	16.5	13, 9	1
aterson hiladelphia	36. 2	23. 8 16. 4	28.9	34.8	1
ittshurgh	15. 9 32. 3	25.6	15. 0 26. 3	13. 5 29. 7	
ortland, Oreg rovidence	(¹) 22.8	(1)	(1) 29.5	14.7	1
Tovidence	22. 8 26. 2	22. 2 16. 7	29. 5 16. 8	22.0 21.5	
Reading	. 24.0	19.6	22.0	18.0	1 :
Rochester	. 19. 1	20.3	17.0	15.3	1 :
t. Louis t. Paul	18. 9 22. 8	20. 7 18. 5	24. 5 17. 1	24. 2 22. 5	
alt Lake City	22. 1	24.7	32.1	26.4	1
an Antonio	22.7	19.5	19.7	11.5	1
an Franciscocranton	. 23.6	22. 6 22. 4	18.8 23.2	20.6 17.0	
leattle .	1 21 0	(1)	(1)	(1)	(1)
pokane pringfield, Mass	19. 3 16. 3	24. 8 26. 2	19.3 14.8	21. 0 19. 2	
yracuse	.1 21.8	23.7	15.9	22.7	
Poledo	25.4	25.1	23.3	16. 4 26. 2	1 :
renton	29. 3 20. 0		29. 5 17. 1	26. 2 22. 2	
Prenton Washington, D. C. Wilmington, Del	31.6	23.3	17.2	24.2	1 :
Worcester Yonkers	_   23.1	16.5	21.0	15.3 14.4	

<sup>&</sup>lt;sup>1</sup> Estimate of population unsatisfactory.

## STUDIES IN PHYSICAL DEVELOPMENT AND POSTURE

1

That systematic physical exercise will increase the height, weight, and vital capacity of schoolboys is shown in a special experiment undertaken by the United States Public Health Service and reported in Public Health Bulletin No. 179, which will be issued soon.

Perhaps the most interesting result was the slight, but significant, gain in height. Growing boys may be expected to show increases in height in the course of a few months. Thus the group who were not given the special exercises, and who were requested to take as little exercise as possible, gained on the average about two-thirds of an inch. But the "experimental" group gained nearly a whole inch during the four months of the study. Out of 50 boys in the "control" group, only 4 gained as much as an inch and a half during the period; out of 68 in the "experimental" group, 18 gained that much. While it is recognized that this rate of increase could not be carried on indefinitely, it probably would be a considerable factor over a period of time.

In weight, the boys given the exercises showed an average gain of 3.3 pounds, whereas the "control" group showed a gain of 2. In the former, 26 children gained 5 pounds or more; in the latter only 5. Vital capacity (the amount of air which can be expelled from the lungs) also showed significantly greater increases in the "experimental" group.

The study was carried on primarily to ascertain whether gymnasium work would have a definite effect on the posture of boys. An improvement in muscular tone seems unquestionable, since a series of strength tests taken before and after the experiments indicated that the boys in the special classes increased more rapidly than other boys of the same ages. However, all measures of posture, including those made on photographs taken before and after the experimental period, indicated no differences in posture, from whatever point of view considered.

II

The bodily growth of boys and men from 3 to 50 years of age is shown in considerable detail in a recent bulletin issued by the United States Public Health Service (Public Health Bulletin No. 179), based on a study of 2,200 persons on whom detailed physical examinations were made together with front, back, and profile photographs of the body.

The results of each measurement are given in the report, so that an excellent idea is obtainable as to how growth proceeds, its relation to puberty, and the changes during adult life. Special attention is given to the variability of the measurements from person to person at different ages.

The measurements divide themselves into two rather sharply contrasting groups. Weight, vital capacity, and strength begin at very low values and rise with amazing rapidity during adolescence. The other measurements show a moderate increase throughout childhood: they are, in general, linear measurements on the body. All show remarkable increases at the time of puberty.

Certain measurements reach a maximum in early adult life and thereafter decline (strength, vital capacity, chest expansions). Others are still rising more or less at 50 years (chest measurements, abdominal circumference, weight).

#### III

Record of tests of strength on 1,000 boys and men from 14 to 50 years of age are given an exhaustive study in Public Health Bulletin No. 179. The tests made included: Pull (strength of pulling the hands apart, recorded with a dynamometer); push (pressing the hands together); lift (lifting from floor); hand grip; lung force (height to which a column of mercury can be sent by blowing into a tube); and lung fatigue ("holding one's breath"—length of time the column of mercury can be maintained at 40 millimeters on a single breath).

Outside of the last measurement (which shows little variation with age), we find that all the strength tests rise during adolescence in much the same manner, spurt upward at puberty, reach a maximum about 30 years, and then decline slightly.

At any one age, as height and weight increase, strength increases; but it is of particular interest that for persons of the same weight strength decreases with height. For persons of the same height, strength increases markedly with weight.

All of the tests show great variability from person to person at any one age, especially lung force and lung fatigue, and there was no indication that any of them could be taken as reliable indices of physical condition.

## COURT DECISIONS RELATING TO PUBLIC HEALTH

Detention of person, charged with certain offense, pending result of blood test for venereal disease upheld.—(New York Supreme Court; People ex rel. Krohn v. Thomas, Sheriff, 231 N. Y. S. 271; decided November 6, 1928.) The relator was arrested on a charge of the violation of subdivision 4, paragraph (f), of section 887 of the code of criminal procedure, in aiding and abetting prostitution. Section 343-n of the public health law provided:

Every person arrested for vagrancy as defined under subdivision 3 or 4 of section 887 of the code of criminal procedure \* \* \* shall be reported within

24 hours by the court or magistrate before whom such person is arraigned to the board of health or health officer of the health district in which the alleged offense occurred, and shall be examined [for venereal disease] in accordance with the provisions of the preceding section. For purpose of examination and diagnosis as provided in the preceding section, such person may be detained until the results of such examination are known. \* \*

The magistrate, before whom the relator was arraigned, ordered that a blood test be taken of the relator and that he be detained in custody to await the result of the test. In habeas corpus proceedings instituted by the relator, the detention pending the result of the blood test was upheld, the court saying:

I am of the opinion that the learned city judge not only had jurisdiction to order the blood test and to order the relator detained in custody pending the result thereof, but that it was his duty to do so under said section 343-n.

\* \* \* If the blood test should be negative, the city court can forthwith admit the relator to bail, and it would be the duty of that court to do so promptly.

The foregoing sections of the public health law were enacted for the benign purpose of protecting the public against the ravages of venereal diseases. These statutes should receive, therefore, a liberal interpretation. The police and the courts should be encouraged to a vigorous prosecution of this great work.

For the foregoing reasons, the writ of habeas corpus should be quashed, and the relator remanded to custody. \* \* \*

Bovine tuberculosis eradication .- (Iowa Supreme Court; Phelps et al. v. Thornburg, State Secretary of Agriculture, et al., 221 N. W. 835; decided November 13, 1928.) In 1925, Muscatine County was enrolled under the county area plan for the eradication of bovine tuberculosis. One of the statutory requirements necessary to effect such enrollment was that the board of supervisors should publish for two consecutive weeks in two official county papers a notice of the date of the hearing, which hearing was to be not less than 5 not more than 10 days after the last publication. The hearing was set for August 17, 1925, and notice was published twice in two newspapers. In one paper the notice was published within the proper time, but in the other paper the dates of publication were August 6 and 13. In July, 1926, Muscatine County was declared by the State secretary of agriculture to be an accredited area. The plaintiffs brought an action for injunctive relief, which relief was granted by the supreme court. This court held that the notice published on August 13 did not comply with the statutory requirements, as but four days intervened between such publication and the hearing, and that, therefore, the county had not been properly enrolled under the county area plan. It then proceeded to hold that a county must first be properly enrolled under the county area plan before the secretary of agriculture could enroll it under the accredited area plan.

## DEATH RATES IN A GROUP OF INSURED PERSONS

#### Rates for Principal Causes of Death, October, 1928

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

## The Bulletin states:

Health conditions among the industrial populations of the United States and Canada during October were by no means as favorable as in either the preceding month of this year or in the corresponding month of 1927. The death rate was 8.5 per 1,000 as compared with 7.7 in September, 1928, and 7.8 in October, 1927.

Every disease of importance, numerically, registered a higher rate than during October of last year. The most outstanding examples were heart disease and pneumonia, but noteworthy increases were recorded for influenza, tuberculosis, cancer, respiratory diseases other than pneumonia, and Bright's disease. Typhoid fever, for the first time this year, registered a higher death rate than in the corresponding month of 1927. Smaller margins of increase were recorded for scarlet fever, whooping cough, diabetes, cerebral hemorrhage, and suicides.

The mortality from accidental causes is about the same as in October, 1927, although there were a few more automobile fatalities. Up to November 24, the death rate from the latter was still running a little lower than for the corresponding period of last year,

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

	Rate per 100,000 lives exposed <sup>1</sup>						
Causes of death	October, 1928	September, 1928	October, 1927	Year 1927			
Total, all causes	851.9	765. 3	780.0	887.9			
Typhoid fever Measles Scarlet fever Whooping cough Diphtheria Influenza Tuberculosis (all forms) Tuberculosis (all forms) Tuberculosis of respiratory system Cancer Diabetes mellitus Cerebral hemorrhage Organic diseases of heart Pneumonia (all forms) Other respiratory diseases Diarrhea and enteritis Bright's disease (chronic nephritis) Puerperal state Suicides Homicides Other external causes (excluding suicides and homicides) Traumatism by automobiles All other causes	.3 1.8 5.0 9.5 8.6 83.0 77.5 15.8 51.9 131.1 57.3 16.0 37.5 64.6 8.2 6.5	4.3 .7 1.0 4.8 5.6 6.6 78.1 67.8 72.2 14.0 42.6 114.6 36.4 12.0 47.1 12.0 61.9 9 19.8	3.7 4.1.6 4.1 9.7 6.6 75.7 67.4 72.5 15.2 49.7 113.5 9.12.8 37.1 12.8 7.6 6.9 63.2 20.6 178.8	4.6 4.1 3.1 6.4 10.6 6.17.8 93.6 81.9 74.3 16.8 55.1 132.5 77.7 11.7 24.6 69.5 15.5 8.3 7.3 7.3 16.8 19.9 19.9 19.9 19.9 19.9			

<sup>&</sup>lt;sup>1</sup> All figures include infants insured under 1 year of age.

## PUBLIC HEALTH ENGINEERING ABSTRACTS

New Sewage Disposal Plant for Durham, N. C. Preson P. Phillips. *Public Works*, vol. 59, No. 8, August, 1928, pp. 306-309. (Abstract by John M. Henderson.)

A large increase in population, coupled with high infiltration in a 3-mile outfall sewer laid in marshy ground necessitated replacement of 300,000 g. p. d. treatment plant serving Durham residential section, with a 2-m. g. p. d. plant. Provision is made for further enlargement.

The new system consists of screen and grit chambers, preliminary clarifiers, trickling filters, final clarifiers, sludge digester and sludge beds. Flat topography at site necessitates pumping to obtain head for filters. Preliminary and final clarifiers are in battery and have same flow elevation. Filters are built above ground over old sand filter beds by making embankment wall fill. Sewage is numbed from preliminary clarifiers to dosing tanks.

Ingenious use of old equipment was made by converting an old Imhoff tank into a suction well and an old suction well into a sludge well. Details of plant are as follows: (1) Screen chamber—Donco self-cleaning screen and Morse Boulger incinerator. (2) Grit chamber—3 chambers to provide for variable flow; 1 minute detention, 1 ft.-sec. velocity; mechanical grit removal. (3) Preliminary and final clarifiers—3 and 2 of each type respectively, in battery, all equipped with link belt clarifiers; two hours' preliminary detention. (4) Two trickling filters with a combined area of over an acre; 7 feet of 1½ to 2½ inches crushed stone over 6-inch split drain tile laid solid; 6-inch supply line; 1:1 slope concrete-lined walls. (5) Sludge digester—4 separate hopper-bottom tanks with provision for mixing ripe and green sludge; 2 cubic feet per capita capacity. (6) Sludge bed—5 compartments; 2 square feet per capita. Cost not stated.

Sludge Digestion and Gas Production. Jerry Donohue. American City, vol. 39, No. 4, October, 1928, pp. 95-97. (Abstract by S. H. Smith.)

The separate sludge digestion plant, constructed by Antigo, Wis., in 1926, consists of grit chamber, bar screen, clarifier tank, sprinkling filter beds, pumps, sludge digestion tank, and sludge beds. It is designed for a population of 10,000 and a sewage flow of 1,000,000 gallons per day. The present population is 9,000, of which number only 5,600 are now connected, and the present sewage flow is 650,000 gallons per day.

Nine advantages of the separate sludge digestion method are set forth, the most important of which is claimed to be the gas collection feature. The average amount of gas produced daily is 4,300 cubic feet, or 0.75 cubic foot per capita. The gas has a heating value of 640 B. t. u. per cubic foot. This gas is used to maintain the temperature in the digestion tank. The minimum temperature in this tank has been 65° F., while the minimum raw sewage temperature has been 47° F., and the atmospheric temperature —30° F., resulting in extending the digestion period from a normal of two months to twelve months. Burning the gas also eliminated much of the usual odor.

Experimental Studies of Bacterial Death Rates in Polluted Waters. C. T. Butterfield. *Journal of Bacteriology*, vol. 16, No. 4, October, 1928, pp. 257-267. (Abstract by C. T. Butterfield.)

In an attempt to better understand the processes of natural purification as observed in streams, the Stream Pollution Investigations Laboratory of the United States Public Health Service has devoted considerable study to comparing the bacterial changes which take place in waters under various laboratory conditions with the changes occurring in the stream. In these studies water collected from the Ohio River at Cincinnati was used. The bacterial changes occurring in the Ohio River between Cincinnati and Louisville have been determined.

The bacterial changes taking place with four experimental set-ups are given as follows: (1) Samples were stored in glass bottles in the incubator at temperatures of 10, 20, and 37° C.; (2) samples were held in wooden buckets at air temperatures, with intermittent agitation and exposed to diffuse daylight; (3) results are given from samples stored suspended in the river at the site of collection, and (4) bacterial changes have been followed in water pumped from the river and detoured through artificial channels constructed on the laboratory grounds.

Under the first three conditions the bacterial changes were not comparable with those observed in the stream. In the fourth set-up the changes observed simulate those in the natural stream.

The article is accompanied with tables of detailed analytical data and descriptive charts.

Observations on Acid Mine Drainage in Western Pennsylvania. R. D. Leitch. Report of Investigations, Department of Commerce, Bureau of Mines, Serial No. 2889, September, 1928, 18 pages. (Abstract by Arthur P. Miller.)

This paper relates the results of an attempt by the Bureau of Mines to "determine some of the factors contributing to formation of acid mine waters, the yearly variations in quantity and quality of drainage, effect of mining methods, and various other questions arising in connection with the problem."

Two streams receiving mine drainage, one in a high-sulphur and the other in a low-sulphur bituminous coal district, were selected for study. One stream was 16 miles long and had on it 17 active, 6 inactive, and 2 abandoned mines, while the other was 35 miles long and had 7 active, 7 inactive, and 15 abandoned mines on it. With three exceptions all mines were drift mines. The coal beds worked are given and also figures on drainage volumes.

Data were gathered in both spring and fall wet seasons and dry summer season. Acidity and pH determinations were made from samples taken at regular points. Effort was made also to get samples from all places where different kinds of waters were found.

On the first stream, the water was acid from the point of entrance of first drainage to mouth. Mine samples showed wide variations in acidity, but fresh working faces were usually alkaline or faintly acid. Water from inactive mines was invariably acid. Gobbed material is an important source of acid water. If it could be kept dry and sealed off, the minimum formation of acid might be expected. The presence or absence of limestone floor in a mine seems to have no effect on the acidity of the water. High-sulphur beds produce more acidity than low-sulphur beds.

Chemical neutralization of mine water by mixing it with limestone or lime can be accomplished but installations to do it would be so costly as to probably force a great many companies to cease production. It is therefore primarily a question of economics. However, much improvement can be had by sealing abandoned workings, thereby cutting off one source of much acid water.

Housing. J. S. Purdy. Journal of the Royal Sanitary Institute, vol. 49, No. 2, August, 1928, pp. 58-64. (Abstract by F. J. Moss.)

It is generally recognized that the overcrowding of persons into houses and the congestion of houses on an area have a deleterious effect on the health of the people.

In none of the six Australian capital cities is there any high density of population to the acre comparable to conditions in the older cities in Great Britain, Europe, or the United States. Thus the city of Sidney has a density of only 31.9 to the acre, and the most closely built suburb, Darlington, has a density of 87 to the acre. In the metropolitan area of Sidney there is room for improvement, but it is mainly in the industrial suburbs contiguous to the city proper that the more congested areas still obtain.

Conditions resulting from the shifting of population are discussed, and also the question of tenements, flats, individual residences, and the need of open spaces for use as recreation grounds for persons of all ages.

House property should be considered from the same standpoint of other property, and should not be expected to last and to yield an income forever. When houses cease to be reasonably habitable and incapable of repair, they should be wiped out and not allowed to remain as a source of danger to the public health. The principle of community responsibility for housing should be recognized, for it is as much a communal duty to provide such a public utility as to provide water, sewerage, gas or electricity.

The Bacterial Examination of Water in Public Swimming Baths. G. K. Bowes. Journal of State Medicine, vol. 36, No. 9, September, 1928, pp. 521-545. (Abstract by C. T. Butterfield.)

The author reviews the literature of transmission of disease by swimming baths and of bacterial standards. Practically all of the standards considered are of United States origin.

Experimental results obtained from a number of places in England during the years 1925-26 are given. These data include bacterial results, methods of operating the bathing pools, number of persons using baths and effects of temperature.

The author concludes in part that: (1) Pollution is less in cold weather than in warm, regardless of methods; (2) continuous filtration is superior to occasional emptying and filling with fresh water; (3) the standard adopted should be as stringent as that for drinking water (U. S. Treasury), and, (4) it is not possible to maintain this standard without continuous disinfection with some agent such as chlorine.

Swimming Bath Purification by Chlorine. Anon. Contract Record and Engineering Review, vol. 42, No. 23, June 6, 1928, pp. 615-616. (Abstract by Rudolph E. Thompson.)

A brief description of the purification plant in operation for the city of Bradford, England, at its Windsor Central Baths. The pool is 100 feet by 30 feet, and has a capacity of 102,000 gallons. The treatment plant consists of a rough strainer, 3 pressure filters, aerator (compressed air), chlorinating apparatus and calorifier. A coagulant, such as alumino-ferric and soda ash, will be employed. The capacity of the plant is equivalent to complete replacement of the pool water every 3½ hours.

Variations in British and American Practice in Rapid Sand Filtration. S. W. Farrington. Surveyor, vol. 73, No. 1895, May 18, 1928, pp. 545-546. (Abstract by H. W. Streeter.)

In discussing American practice in rapid sand filtration, the author notes certain points of variance between British and American methods, notably in respect to: (a) Proportioning the flow of chemical solutions; (b) Use of "flocculation" tanks; (c) Rates of filtration; and (d) Washing of filters. Taking the municipal water filtration plant at Cork, Ireland, as an example, he points out that in Great Britain automatic proportioning devices for chemical feed are more widely used, flocculation tanks less used, and lower rates of filtration practiced (averaging 75 gallons per square foot per hour as compared with about 100 gallons in the United States). At the Cork plant, the low rate of upward wash, which is 6½ gallons per square foot minute, is stated to be permissible because the wash water is carried off over a low weir, rather than through elevated troughs. He contrasts this method with that described at Cambridge, Mass., where high upward velocities of washing, with frequent hand raking, are practiced. Noting that the hand raking is necessary to prevent formation of mud balls, he states that at Cork, where back flushing with water is supplemented by scouring

with compressed air, no difficulties of this kind have occurred. He attributes this result to the continued use of the air scouring process.

Impounding Reservoirs. F. M. Veatch. The American City, vol. 39,  $N_{0.2}$ , August, 1928, pp. 125–126. (Abstract by J. B. Harrington.)

The writer in this article has described briefly impounding reservoirs as a source for a suitable water supply for cities unable to obtain satisfactory water by any other method. Southern Iowa, central Illinois and parts of Kansas, Missouri, Oklahoma, and Texas must of necessity use impounded supplies.

The design of impounding reservoirs, the yield for certain drainage areas, and the treatment of impounded supplies are described briefly. The following is a summary given at the close of the article: (1) That the impounding reservoir is an important and widely used source of municipal water supply; (2) that in many districts, as in southern Iowa, the impounding reservoir offers the only really satisfactory solution to the water-supply problem; (3) that in Iowa it is possible to develop water supplies to the extent of 125,000 to 150,000 persons per day per square mile of drainage area, provided suitable dam sites and drainage areas are available; (4) that impounded water in general requires more careful and complete treatment than river water, but if treated properly it is entirely satisfactory for municipal use and is usually of a much softer quality than the ground water available.

Providence Installs a New Garbage Disposal System. Frank E. Waterman. The American City, vol. 39, No. 2, August, 1928, pp. 83-86. (Abstract by J. B. Harrington.)

Following thorough investigation of the various methods of garbage disposal, the city of Providence in 1927 began construction of a 2-unit, heavy duty Decaric incinerator of 160 tons capacity per 24 hours.

For successful collection the city has been divided into sixteen routes during the winter and 21 routes during the summer. The winter schedule requires sixteen 2½-ton trucks, the summer schedule requires the same number of trucks and five 2-horse teams. Collections are made twice a week. The trucks upon arrival at the plant are weighed and the gross, tare, and net weight recorded. A traveling crane of 5,000 pounds capacity lifts the containers from the trucks to the hoppers on the second floor. Refuse is dumped and clean containers returned to the trucks.

After the refuse is dumped into the hoppers, it goes directly into the furnaces and is held in a basket grate until dried by the fire on the fire grate. Two attendants release the dried refuse from the basket grate to the fire grate. Forced draft is afforded by two steam driven induction fans and a 175-foot chimney. To the rear of each furnace is a combustion chamber in which odors and smoke are burned. Ashes are dumped from the grates about every four hours into cooling chambers in the basement.

Complete reports and operating records are kept, as shown by the plates accompanying the article. A brief discussion of the personnel, the office and repair shop, and the costs is also given.

Refuse Incineration at Louisville, Ky. J. L. Eschrich. The American City, vol. 38, No. 5, May, 1928, pp. 127-128. (Abstract by J. B. Harrington.)

The new Heenan type incinerator constructed at Twenty-seventh and Lewis Streets, Louisville, Ky., at a cost of \$170,000 is a 3-story structure 50 by 75 feet. The furnace room occupies the first floor; charging takes place on the second; and office rooms, showers, etc., are located on the third floor. The furnaces, preheaters for air, chargers, and other equipment are described somewhat in detail. The plant consists of two units each with a 50-ton capacity for 10 hours. No additional fuel other than the garbage collected is ever used in the incinerator. The cost of burning the garbage is approximately \$1.00 per ton. No odors have been noticeable from the operation of the plant.

# DEATHS FROM INFLUENZA AND PNEUMONIA IN LARGE CITIES

Deaths from influenza and pneumonia in 78 large cities during seven weeks ended December 15, 1928. (From the Weekly Health Index December 19, 1928, issued by the Bureau of the Census, Department of Commerce.)

#### INFLUENZA DEATHS

Total	Nov. 3 49 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nov. 10  76  0 0 0 0 3 0 1 1 1 0 4 2 2 1 3 1 1	80 0 0 1 3 0 2 1 1	Nov. 24   86   0   0   0   1   0   0   1   1   2   0   1   1   1   1   1   1   1   1   1	Dec. 1  191  0 0 2 5 0 2 1 0 0 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dec. 8  284  0 2 10 4 2 0 0 0 10 0 0 2 10 0 0 2	379      2 1     10     6 4     2 2     0
Akron	0 0 0 0 2 1 1 0 0 0 0 4 4 0 1 1 1 2 2 2 2 2 3 1 3 1 3 1 3 1 3 1 3 1	0 0 0 0 3 0 1 1 1	0 0 1 3 0 2 1 1 1	0 0 0 0 1 0 1	0 0 2 5 0 2 1 0 0	0 2 10 4 2 0 2 0	\$\frac{2}{1}\$ 10 6 4 2 0
Albany Atlanta Baltimore Birmingham Boston Bridgeport Buffalo Cambridge Camden Canton 1 Chicago Cincinnati Cleveland Columbus Dallas Dayton Den Wenter Des Moines Det Noines Det Double Det Double Des Moines Det Duluth	0 0 2 1 0 0 0 0 4 0 4 0 1 1 2 2 2	0 0 3 0 1 1 1 2 2 2 1 3	0 1 3 0 2 1 1 1 6 2 2 2 0 0	0 0 1 0 1 	0 2 5 0 2 1 0 0	2 10 4 2 2 0 2 0	6 4 2 0 4
Albany Atlanta Baltimore Birmingham Boston Bridgeport Buffalo Cambridge Camden Canton 1 Chicago Cincinnati Cleveland Columbus Dallas Dayton Den Wenter Des Moines Det Noines Det Double Det Double Des Moines Det Duluth	0 2 1 0 0 0 4 0 4 0 1 1 2 2	0 0 3 0 1 1 2 2 2 1 3	1 3 0 2 1 1 1	0 1 0 1 1 1 1 2 0 1	2 5 0 2 1 0 	10   4   2   0   0   0   0   0   0   0   2   0   0	6 4 2 0 4
Baltimore Birmingham Boston Bridgeport Buffalo Cambridge 1 Camden Canton 1 Chicago Cincinnati Cleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth	0 0 0 0 4 0 4 0 1 0 1 2 2	0 3 0 1 1 2 2 2 3 1	3 0 2 1 1 1 2 2 2 0	1 0 1 1 1	2 1 0 0 	0 10 0 2	6 4 2 0 4
Birmingham Boston Bridgeport Buffalo Cambridge  Cambridge  Canton  Chicago Cincinnati Cleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth	0 0 0 4 0 4 0 1 0 1 2 2	0 1 1 2 2 2 1 3	2 1 1 1 6 2 2 0 0	0 1 1 1 2 0 1	2 1 0 0 	0 0 10 0 2	4
Bridgeport   Buffalo   Cambridge   Cambridge   Camden   Canton   Chicago   Cincinnati   Cleveland   Columbus   Dallas   Dayton   Denver   Des Moines   Detroit   Duluth   Description   Duluth   Duluth   Duluth   Duluth   Duluth   Description   Description   Description   Duluth   Duluth   Description   Description   Description   Description   Duluth   Duluth   Description	0 0 4 0 4 0 1 0 1 2 2	1 1 0 4 2 2 2 1 3 1	1 6 2 2 0 0	1 1 2 0 1	1 0 0 10 2 1	0 0 10 0 2	4 33
Buffalo Cambridge \(^1\) Camden Canton \(^1\) Chicago Cincinnati Cleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth	0 4 0 4 0 1 0 1 2 2	1 0 4 2 2 1 3 1	1 6 2 2 0 0	1 1 2 0 1	0 0 10 2 1	0 10 0 2	4
Cambridge 1. Camden	0 4 0 4 0 1 0 1 2 2	0 4 2 2 1 3 1	1 6 2 2 0 0	1 2 0 1	10 2 1	10 0 2	33 6
Camden Canton Lorent Conton Conton Conton Conton Coleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth Duluth Conton Conto	4 0 4 0 1 0 1 2 2	4 2 2 1 3 1	6 2 2 0 0	0 1	10 2 1	10 0 2	33 6
Chicago Cincinnati Cleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth	0 4 0 1 0 1 2 2	2 2 1 3 1	2 2 0 0	0	2 1	0 2	33 6
Cincinnati Cleveland Columbus Dallas Dayton Denver Des Moines Detroit Duluth	0 4 0 1 0 1 2 2	2 2 1 3 1	2 2 0 0	0	2 1	0 2	6
Cleveland	0 1 0 1 2 2	3 1 1	2 0 0			2	
Dallas	1 0 1 2 2	3 1 1	0				,
Dayton	0 1 2 2	1	V	1 6	i	0 2:	0
Denver	1 2 2	ī	0	0	1 1	1	uz
Des Moines Detroit Duluth	2		2	1	15	28	58
Duluth	2	Ō	Ō	Ŏ	9	2 3	6
		1 0	4 0	8	4 0	2	5
El Paso	ŏ	2	ĭ	ľ	4	1	4
Erie	Ŏ	0	0	1	1	0	<u>-</u>
Fall River	0	0	0	1	0	1	0
Flint 1Fort Worth	·ō	0	0	1	2	1	3
Grand Rapids	ĭ	Ĭ	ľ	Ô	1	ī	3 11
Houston	0	1	0	1	0	1	2
Indianapolis Jersey City Kansas City, Kans Kansas City, Mo	1	0	8	1 0	0	3 2	9
Vancas City Kans	0	1 0	١ ٥	1 8	l ő	ĺ	
Kansas City, Mo	2	Ĭ	i	0	1	12	35
Knoxviiie	0	1	1	1	1 .1	70	1
Los Angeles				2	. 55	10	
Lowell	0	0	0	- 2	1	0	0
Lynn 1		.		-	.	2	-
Memphis Milwaukee	1	3	·ō	- 2	1 0	2	3
Minneapolis	ō	l ő	ľ		2	2	1
Nashville 1		.		.			.
New Bedford 1		-	·	-	-	·i	-
New Haven	,0 ,2	0 2	0 5	1 4	۰	5	1
New York		. 11	l š	14	11	15	1 10
Newark, N. J	0		82 33	0	,0	3 3	
Oakiand	4	.   2	1 3	5	11	3	1
Oklahoma City Omaha	ō	ō	1 8	i î	0	Ö	1 (
Paterson	Ó	. 0	0	) 0	1 1	1	
Philadelphia	3	8	1 6		4 4	14	1 1
Pittsburgh Portland, Oreg	Ö	i	1 6	3	1 4	ľ	1 7
Providence	ď	)	1 1	( ) O	1	0	4 9
Richmond	0	) 0		2   9	0	1 0	
Rochester St. Louis	9				0		' [
St. Paul	0	il ā		il 1		1 0	
Salt Lake City	ì	i l	1 4	1 3	14		1
San Antonio San Diego		3				11	
San Francisco	1 8						
Schenectady 1	l					-	
Seattle Somerville		1			6		

<sup>&</sup>lt;sup>1</sup>No report of influenza deaths received

Deaths from influence and pneumonia in 78 large cities during seven weeks ended December 15, 1928. (From the Weekly Health Index December 19, 1928, issued by the Bureau of the Census, Department of Commerce)—Continued

#### INFLUENZA DEATHS—Continued

City	Week ended-							
City	Nov. 8	Nov. 10	Nov. 17	Nov. 24	Dec. 1	Dec. 8	Dec. 15	
Spokane. Springfield, Mass Syracuse 1	<del>0</del>	1 0	0	1 0	0	6 0		
Tacoma Toledo. Trenton Uttea. Washington, D. C Waterbury.	0 0 0	0 0 0	0 1 1 0 1	0 4 0 1	0 2 1 1	0 5 1 0 4	2	
Wilmington, Del Worcester 1 Yonkers Youngstown 1	0	0	0	0	9	0		

#### PNEUMONIA DEATHS

Total	567	587	687	791	853	1009	1114
cron	4	3	1	4	5	8	
bany	5	3	3	7 .	-8	8	
lanta	6	6	4 1	5 1	10	8	1
altimore	15	17	24	82	25	35	
rmingham	6	6	6	6	10	. 9	,
oston	17	12	20	22	17	24	
idgeport		5	4.	6	i	3	•
ıffalo	8	13	15	ıĭ	15	15	
mbridge	ž	ŏ	2	2	2	ı î	
mden	ō	ĭ	3	5	4	5	
anton	2	2	2	2	5		
hiongo		38	49	71		3	١.
nicago	54	38 13		15	70	85	1
ncinnati	10		10	15.	14	13	ļ
eveland	12	16	7	13	14	17	
lumbus	2	6	5	4	4	6	ł
allas	0	2	1	2	4	2	}
ayton	2	1	9	2	0	7	l
nver	6	6	4	9	12	22	
s Moines	i	i	Ī	l ō'	Ō	1 4	1
etroit	19	24	31	25	38	39	ł
uluth	l ő	i	2	ľ	ñ	5	1
Paso	2	4	ไร็	3	2	1 2	ļ.
			2 7	3		5	
	Ō	0		2	4	2	ł
all River	1	0	1	2 2 5	9	3	i
lint	8	6	4			11	
ort Worth	1	2	3	6	] 1	3	1
rand Rapids	2	0	] 1	5	] 2	5	i
ouston	6	3	2	11	4	8	1
dianapolis	6	4	11	18	14	19	ł
ersey City	6	4	11	12	6	8	1
ansas City, Kans	ľ	5	5	1 1	5	5	1
ansas City, Mo		2 5	į š	5	15	15	1
noxville	2	4	3	6		13	1
og Angeles	16	25	18		57	69	1
os Angeles	10	20		41			
ouisville		6	10	3	7	14	1
owell	4	2	2	3	1	2	1
ynn	. 3	1	0	1	3 8 6	0	1
lemphis	.  3	4	8	7	] 3	17	
liiwaukee	. 8	8	5	3	8	8	1
linneapolis	. 8	9	16	4	1 6	15	1
ashville	5	6	3	2	5	īŏ	
ew Bedford	Ŏ	l ĭ	3	l ī	1 5	1 4	1
ew Haven	il	l â	5	2	3	1 1	1
ew Orleans	14	14	12	9	12	15	1
ew York	1111	187	137		157		1
lew York	-			150		178	1
		5	7	10	. 8	14	
akland	.  3	5	6	4	] 11		
oklahoma City	.] 2	4	] 7	] 6	] 2	:] 6	
)maha		5	7	1 5	7		1
Paterson	. 2	5	3	2			
Philadelphia	25	30		43			1 .
Pittsburgh	1 12	17		27			

<sup>&</sup>lt;sup>1</sup> No report of influenza deaths received.

Deaths from influenza and pneumonia in 78 large cities during seven weeks ended December 15, 1928. (From the Weekly Health Index December 19, 1928, issued by the Bureau of the Census, Department of Commerce)—Continued

#### PNEUMONIA DEATHS-Continued

Cita	Week ended—									
City	Nov. 3	Nov. 10	Nov. 17	Nov. 24	Dec. 1	Dec. 8	Dec. 15			
Portland, Oreg. Providence Richmond. Rochester St. Louis St. Paul. Salt Lake City San Antonio. San Diego San Francisco Schenectady Seattle. Somerville. Sprokane. Springfield, Mass Syracuse. Tacoma Toledo Trenton Utica. Washington, D. C. Waterbury Willmington, Del Worcester Youngstown	3 3 14 9 9 3 3 3 11 0 6 6 2 2 3 4 4 3 2 1 5 2 2 1 1 2 2 1 2 2 1 2 2 1 2 2 3 3 3 3 1 1 2 2 3 3 3 3	2 4 4 0 0 2 8 4 4 1 1 2 2 2 4 4 1 1 0 3 3 8 2 2 3 3 1 1 4 4 6 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	7828195403882222207140513030222	53 66 22 5 5 6 6 12 1 7 1 3 3 8 1 6 6 3 7 7 1 2 5 6 4 4 4 3	38 57 23 6 5 10 5 19 1 5 2 2 4 5 5 7 1 8 2 2 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4 7 4 3 222 5 6 5 4 12 2 2 10 2 2 4 6 6 3 3 - 8 8 1 1 3 3 1 1 3 3 5 5 5 6	111 6 4 7 333 10 8 18			

Blank spaces indicate that no report has been received.

## DEATHS DURING WEEK ENDED DECEMBER 15, 1928

Summary of information received by telegraph from industrial insurance companies for the week ended December 15, 1928, and corresponding week of 1927. (From the Weekly Health Index December 19, 1928, issued by the Bureau of the Census, Department of Commerce.

	Dec. 15, 1928	week, 1927
Policies in force	70, 124, 082	69, 626, 833
Number of death claims	13, 619	12, 573
Death claims per 1,000 policies in force, annual rate	10. 2	9. 4

Deaths from all causes in certain large cities of the United States during the week ended December 15, 1928, infant mortality, annual death rate, and comparison with corresponding week of 1927. (From the Weekly Health Index, December 19, 1928, issued by the Bureau of the Census, Department of Commerce)

Total deaths		Week en		Annual death		under 1 ear	Infant mortality
Akron	City			corre- sponding	ended Dec. 15,	sponding	rate, week ended Dec. 15, 1928 i
Albany 4 Atlanta.  Atlanta.  White.  Colored.  Colored.	Total (63 cities)	8, 288	15. 2	12.7	735	687	³ 66
Kansas City, Kans. 68 10.9 10.1 8 6	Akron Albany 4 Atlanta White. Colored. Baltimore 4 White. Colored. Brimingham White. Colored. Brimingham White. Colored. Bridgeport Buffalo. Cambridge Camden Cambridge Camden Colored. Des Moines Deltoit Duluth El Paso Erie El Paso Erie Fall River 4 Flint Fort Worth White Colored Grand rapids Houston White Colored Grand rapids Houston White Colored Jesses Grand Houston White Colored Jesses Grand Houston White Colored Jesses Je	34 36. 90 49 41 254 194 60 72 211 171 171 190 51 154 190 51 190 190 190 190 190 190 190 19	15. 6 18. 4  (e) 16. 0  (f) 16. 9  (g) 13. 8  16. 1  11. 2  19. 3  9. 8  15. 6  13. 6  11. 7  14. 8  20. 0  (f) 22. 0  (g) 22. 0  (g) 30. 5  (g	24. 9 18. 0 14. 3 26. 8 13. 2 12. 1 19. 5 15. 8 11. 0 23. 4 14. 3 13. 8 13. 8 14. 3 10. 1 11. 4 11. 5 12. 3 11. 6 17. 1 18. 2 12. 3 20. 2 2 12. 6 9. 9 9. 2 9. 8 5. 3 9. 3 12. 0 11. 2 17. 5 10. 1 13. 3 13. 0 14. 8 12. 8 12. 8 12. 8 12. 8 12. 8	3 3 2 7 7 3 4 4 26 18 8 8 12 7 7 5 23 3 7 7 4 4 4 9 9 4 2 2 2 8 8 13 13 13 13 13 13 13 13 13 13 13 13 13	4 5 10 6 4 1 21 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1	32 32 32 32 32 32 32 32 32 32 32 32 32 3

Annual rate per 1,000 population.
 Deaths under 1 year per 1,000 births. Cities left blank are not in the registration area for births.
 Data for 67 cities.

Deaths for week ended Friday.

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

Deaths from all causes in certain large cities of the United States during the week ended December 15, 1928, infant mortality, annual death rate, and comparison with corresponding week of 1927. (From the Weekly Health Index, December 19, 1928, issued by the Bureau of the Census, Department of Commerce)—Continued

	Week end		Annual death	Deaths ye		Infant mortality
City	Total deaths	Death rate	rate per 1,000 corre- sponding week, 1927	Week ended Dec. 15, 1928	Corre- sponding week, 1927	rate, week ended Dec. 15, 1928
Tash ville	53 36	19. 9	20. 4 21. 1	9	4 3	150
WhiteColored	17	(3)	18.8	6	l î	388
lew Bedford	23	(-)	10.0	3	1 3	64
lew Haven	46	12.8	10.4	3	2	44
lew Orleans	169	20. 6	22.0	3 9	27	45
White	110		17.3	4	10	30
Colored	59	(3)	35. 5	5	17	76
New York	1,508	13.1	11.8	142	115	58
Bronx boro	200 519	11.0 11.8	9. 6 10. 5	20 57	13 40	58
Brooklyn boro	601	17. 9	15.9	50	52	60
Manhattan boro	145	8.9	8.9	1 12	9	49
Richmond boro	43	14. 9	11.7	3	ľi	5
čewark, N. J	109	12.0	11.6	13	10	68
Oakland	69	13. 2	14.0	4	4	4
)klahoma City	34			. 0	3	
Omaha	104	24. 4	16. 7	6	8	
Paterson	26	9.4	14.5	1 20	4	1
Philadelphia	582 237	14. 7 18. 4	12. 6 15. 0	39	50	5 7
PittsburghPortland, Oreg		10. 4	10.0	. 5	1 3	
Providence	75	13. 7	8. 5	i š	l š	Ž
Richmond	51	13.7	15. 5	3	111	4
White	. 34		. 13. 0	3	4	
Colored		( <sup>5</sup> ) 15. 5	21.6	<u> 0</u>		
Rochester			10.3	7.7	9	
St. Louis		17. 4	13. 5	15		5 2
St. PaulSalt Lake City 4		21. 2	16. 1	- 5		:   8
San Antonio		16. 5	15.0	111		
San Diego		34. 1	22. 2	3		
San Francisco		16. 4	13. 4	7	1	
Schenectady		11.8	9.5	4	. 1 1	
Seattle		16. 2		2 3	1 8	3   3
Somerville		9. 2		3		
Spokane	- 68	32.6				
Springfield, Mass	- 40 54	14. 0 14. 2			4	
Syracuse		15. 6			'	
Toledo		16. 2				31 3
Trenton		16. 2			1	1
Washington, D. C		14. 3	11.0			2   2
White	_ 98		9.6	1 2		[ ]
Colored	_ 53	(5)	15. 3			<u> </u>
Waterbury			-	-1		2
Wilmington, Del		15. 5				
Worcester		11.4				
Yonkers						

<sup>&</sup>lt;sup>4</sup> Deaths for week ended Friday.
<sup>5</sup> In the cities for which deaths are shown by color, the colored population in 1920 constituted the following percentages of the total population: Atlanta, 31; Baltimore, 15; Birmingham, 39; Dallas, 15; Fort Worth, 14; Houston, 25; Indianapolis, 11; Kansas City, Kans., 14; Knoxville, 15; Louisville, 17; Memphis, 38; Nashville, 30; New Orleans, 26; 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 December 15, 1928, and December 17, 1927

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 15, 1928, and December 17, 1927

	Diph	Diphtheria		lenza	Mea	asles	Mening meni	
Division and State	Week ended Dec. 15, 1928	Week ended Dec. 17, 1927						
New England States:								
Maine		4		14		35	1	0
New Hampshire Vermont	3	2	1		18	7	0	1 0
Vermont		4	1		l	3	0	0
Massachusetts	123	116	21	9	645	579	2	00 2
Rhode Island	12	20	1	2	32	4	0	
Connecticut	36	59	14	9	174	43	5	(
Middle Atlantic States:	ı	1	1	i	1	i	i	١.
New York	78	357	1 68	1 12	782	837	24	3
New Jersey	139	172	54	9	97	59	1 6	
Pennsylvania  East North Central States:	275	188		.	1,210	471	7	] 1
East North Central States:				l _	1	l	1 -	١.
Ohio	137	117	718	7	353	74	6	1 1
Indiana		45	2, 280	26	138	31	0	
Illinois	253	188	2, 196	28	277	25	11	1
Michigan	124	.94	244	4	40	263	9	١.
Wisconsin	. 30	50	583	64	160	104	5	
West North Central States:	ش ا	-	1 000	†	-	1 .	l a	1
Minnesota		25	1,238		. 68	4		ł
Iowa	13 75	12 48	11.683	7		26 23	1 24	1
Missouri	1 11	3		1 1	88 15	4	9	
North Dakota	.] 11	li	7, 355 167	4	35	39	lő	1
Nebraska	13	20	2, 590	1 4	6	9	1 1	j.
Kansas		35	68, 843	7	12	29	1 2	1
South Atlantia States:		33	00,023	,	1 12	1 20	1 -	1
Delewere	1	. 4	4	4	10	1 1	1 0	1
Moreland 2	31	30				78		i
DelawareMaryland 2 District of Columbia	20	13	29		1 1	l ï	Ĭŏ	1
West Virginia.	29	31	461			34		1
North Carolina	121	84	1 201	1 **	28	1,344		
South Carolina	45		8, 912	670				1
Georgia	17		4, 462					1
Florida	1 15					8	l õ	

<sup>1</sup> New York\*City only.

<sup>&</sup>lt;sup>2</sup> Week ended Friday.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 15, 1928, and December 17, 1927—Continued

	Dipht	heria	Influ	enza	Mea	sles	Meningococcus meningitis		
Division and State	Week ended Dec. 15, 1928	Week ended Dec. 17, 1927							
ast South Central States:									
	55	14	3, 946	0	i	34		1 9	
Kentucsy Tennessee Alabama Mississippi est South Central States: Arkansas	33 49	37 69	2, 559 622	65 130	28	217 142	1 0		
Alabama	24	33	2,038	130	20	142	li	,	
est South Central States:		-	7,000				i		
Arkansas	28	16	412	81	16	27	Į 0	1 (	
Louisiana Oklahoma <sup>3</sup>	47	23 75 75	136	15	40	15	1	1 :	
Okiahoma 3 Texas	59 105	75	994 37	104 92	5 14	79 18	1 1		
Texasountain States:	100	10	01	82	1 4	10		1	
Montana	1	l	6,060		72	1	10		
	1	1	79		7		. 4		
Wyoming	i	1	450		2	9	0	1	
Colorado	11	26 8	1, 146		ı	28 16	8	i i	
Wyoming Colorado New Mexico Arizona	10	23	1, 757 2, 615		28	1 1	1 0	ł	
Utah 2		10	224		2	l	. Š	1	
acific States:					1			1	
Washington	12	11	407		. 37 88	132	2 2		
OregonCalifornia	11 76	18 147	1,851 6,655	24 25	14	23 46	19	1	
Camorma	1	1	0,000	, 20	1			<u> </u>	
	Polior	nyelitis	Scarle	et fever	Sma	llpox	Typhe	oid feve	
	Week								
Division and State	ended								
	Dec.								
	15, 1928	17, 1927	15, 1928	17, 1927	15, 1928	17, 1927	15, 1928	17,	
	1928	1927	1928	1927	1928	1921	1920	1927	
ew England States:			1	1	1		1	1	
Maine New Hampshire	·	. 2		- 51	:	- 0		-	
Vermont	- 0	Q	35						
Massachusetts	. 0	11	12 251	310	1 0	1 8			
Rhode Island	ة	1 1		35				61	
Rhode Island Connecticut	] ž				Ŏ				
iddle Atlantic States:	1	ł		ł	1	1	. 1	.	
New York	- 8		447	462	1 0		3 18		
New Jersey	1 1	1 2					2 24		
Pennsylvania ast North Central States:	-  -	,	1 320	1 32	'  "		"  "	' i	
Ohio	. 1	1 6	250	223	2 53		3 4	ı İ	
Indiana	-l ō	1 8	107		35	76			
Illinois	- 1		346	i   283	3   84	1 1			
Illinois Michigan Wisconsin	- 1	1 3	293			2	7 4	i	
Vest North Central States:	- 1		1140	150	, 10	'   '	,	•	
Minnesota	_ 2	el c	143	12	L B	:	4 3	3	
Iowa	1 1		3 91	. 1 90		58	8 1 1	Ll	
Missouri	- 1	.   9	102	9	9 35	4	9 9	5	
Missouri North Dakota South Dakota	- 1		1 42		7 10		2 2	2	
Nebraska	- 0		2 4				7   3	2	
Kansas	:	1 1	เ้ เชื่อ	8	i ii	7		2	
outh Atlantic States:	l l		1	1	1	i		1	
Delaware	-  9		1		5 9			0	
Delaware Maryland <sup>2</sup> District of Columbia	- 9	!  !	2 6				0 1	4	
Virginia	- 9		0 14	1 3	6 (	'  '	0	1	
	-1 3		6	7	9 3	4	8	1	
West Virginia									
West Virginia North Carolina		11 (	D   71	3 i 6	2   3	3 2	2	1	
West Virginia North Carolina South Carolina		11 (	D   71	8 6	7   (	5   2	2 1	8	
Viginia. West Virginia. North Carolina. South Carolina. Georgia.			75 3 2 0 3 0 2	4   1	7 8	3   3	2 1	1 8 9 3	

Week ended Friday.
 Figures for 1928 are exclusive of Oklahoma City and Tulsa and for 1927 are exclusive of Tulsa.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended December 15, 1928, and December 17, 1927—Continued

	Polion	yelitis	Scarle	t fever	Sma	lpox	Typhoi	d fever
Division and State	Week ended Dec. 15, 1928	Week ended Dec. 17, 1927	Weak ended Dec. 15, 1928	Week ended Dec. 17, 1927	Week ended Dec. 15, 1928	Week ended Dec. 17, 1927	Week ended Dec. 15, 1928	Week ended Dec. 17, 1927
East South Central States: Keatucky	0 0 0	1 1 0 1 5	84 31 45 20 42 28 42 66	42 42 26 12 11 17 56 59	4 3 0 0 2 9 44 15	12 4 2 0 1 13 147 18	23 4 4 3 12 8 32 4	16 10 31 6 9 10 26 8
Mountain States:  Montana	0 0 0 0 0	0 1 0 1 0 0 0	14 7 13 9 14 4 6	22 13 37 51 16 2 7	18 27 1 3 0 0 3 55	29 0 4 6 1 0 29 53	3 0 0 0 1 2 0	

## 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- goeoe- cus menin- gitis	Diph- theria	Influ- enza	Malaria	Measles	Pellag- ra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
October, 1928  Kansas  November 1928	2	137	14	7	20		4	380	53	34
Iowa	0 3 10 10 4 16 3 0	68. 30 359 395 566 57 484 205 8	31 31 11 36 19 72 219	3 142	7 479 1,620 135 379 22 724 2 117	3 1	5 4 14 8 1 8 24 0 5	344 98 769 888 363 156 957 235 81	181 51 2 68 1 4 94 7	8 10 30 39 31 26 66 106

October, 1928	_	November, 1928	~
Kansas:  Chicken pox German measles Lethargic encephalitis Mumps Paratyphoid fever Septic sore throat Vincent's angina Whooping cough	2 1 97 1 1 2	Anthrax: Massachusetts Chicken pox: Iowa Maine Massachusetts Michigan New Jersey North Dakota	330 192 935 1, 414 1, 171

Week ended Friday.
 Figures for 1928 are exclusive of Oklahoma City and Tulsa and for 1927 are exclusive of Tulsa.

November, 1988—Continued		Nevember, 1968—Continued	
Chicken pox—Continued .	Cases	Puerperal septicemia:	Cases
Ohio	. 2.664	Ohio	. 4
Tennessee	149	Rabies in man:	_
Vermont	139	Michigan	1
Dysentery:		Scabies:	_
Massachusetts.	. 3	North Dakota	2
Ohlo	. 5	Septic sore throat:	-
Tennessee	. 8	Maine	4
German measles:		Massachusetts	ğ
Maine	. 6	Michigan	28
Massachusetts.	. 31	Ohio.	81
Michigan	. 13	Tetanus:	
Ohio	. 16	Massachusetts	1
Vermont	. 8	Ohio	2
Lead poisoning:	-	Trachoma:	_
Massachusetts	. 4	Massachusetts	4
New Jersey	. 3	New Jersey	ĩ
Ohio		l Obio	5.
Lethargic encephalitis:		Tennessee:	ğ
Massachusetta	_ 5	Tularaemia:	_
Michigan	_ 6	Iowa	. 1
North Dakota	. i	Undulant fever:	_
Ohio		Iowa	. 11
Mumps:	•	North Dakota	1
Iowa	_ 237	Ohio	ī
Maine	_ 143	Vincent's angina:	_
Massachusetts	_ 232	Maine	. 4
Michigan	_ 333	North Dakota	11
North Dakota	_ 2	Whooping cough:	
Ohio	. 191	Iowa	. 87
Tennessee.	_ 10	Maine	_ 82
Vermont	. 183	Massachusetts	425
Opthalmia neonatorum:		Michigan	1. 181
Massachusetts	_ 107	New Jersey	446
New Jersey	_ 3	North Dakota	_ 50
Ohio	. 73	Ohio	_ 968
Paratyphoid fever:		Tennessee.	. 58
New Jersey		Vermont.	101
Ohio			
Tennessee	. 1	1	

# Number of Cases of Certain Communicable Diseases Reported for the Month of October, 1928, by State Health Officers

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- cu- losis	Ty- phoid fever	Whoop- ing cough
Maine	78	17	234	49	105	12	27	10	92
New Hampshire		4			36	0		4	
Vermont Massachusetts	110	26	22	96	25	3	13	0	118
Massachusetts	421	413	796	149	532	0	498	40	336
Rhode Island	8	71	64	1	54	0	1 22	5	35
Connecticut	161	103	118	51	87	0	112	9	154
New York	1.008	632	806	355	661	2	1,818	.411	1,033
New Jersey	408	453	184		248	Īī	349	47	372
Pennsylvania 2									
Ohio	1, 188	453	361	188	780	41	626	141	717
Indiana 2	1, 100	300	901	100	100	31	020	141	111
Illinois	793	676	340	160	829	65	917	156	397
Michigan.	743	389	177	115	573	55	735	47	850
Wisconsin.	867	100	230	119	378	35	150	18	414
W ISCOUSIN	301	100	230	119	3/0	30	130	10	1 111
Minnesota	747	144	142	İ	354	5	317	35	138
Iowa	167	75	4	89	266	34	31	16	39
Missouri	152	231	43	37	313	26	270	91	122
North Dakota	28	37	10	1	79	0	22	6	25 16
South Dakota	51	19	4	2	85	23	1	4	16
Nebraska.	33	150	56	111	189	11	1 12	6	30
Kansas	287	137	20	97	380	53	214	34	189
Delaware	3	6	7	3	12	0	19	21	28
Morriand	110	149		65	166	1 6	279	128	311
Maryland	110	250		1 65	49		131	1 11	32
Vincinia	. 14	250	1 2			0		118	32
Virginia	. 176	552			446	5 10	1 130		168
West Virginia	119	142			287		32	122	
North Carolina	. 161	957			558	17		. 148	
South Carolina	. 34	653			78	4	135	180	
Georgia	. 16	170	20	15	104	3	38	96	40
Florida 2		-1	-1	-]	.	-1	-!	-1	-1

<sup>&</sup>lt;sup>1</sup> Pulmonary.

<sup>&</sup>lt;sup>2</sup> Report not received at time of going to press.

# Number of Cases of Certain Communicable Diseases Reported for the Month of October, 1928, by State Health Officers—Continued

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Soar- let fever	Small- pox	Tuber- cu- losis	Ty- phoid fever	Whoop- ing cough
Kentucky 1									
Tennessee	58	311	9	14	206	5	139	240	74
Alabama	25	447	29	17	176	5	405	132	59
Mississippi	226	233	134	173	149	2	235	105	543
Arkansas	44	116	18	31	122	2	24	76	57
Louisiana	.5	127	31	1 1	54	_5	1 128	83	24 25
Oklahoma 4 Texas 3	17	353	18	2	162	25	58	222	25
Montana	197	20	49	5	46	68	16	17	92
Idaho	16	11	7	1 1	83	34	13	Ĩ io	43
Wyoming Colorado 3	86	17	5	23	93	32	11	3	23 2 8
New Mexico 3									
ArizonaUtah 3		16	7	. 3	3	2	46	19	10
Nevada 5									
Washington	398	37	116	156	124	116	119	44	60
Oregon	115	66	66	23	145	99	75	16	8
California	699	434	88	791	707	101		78	826
California	699	434	88	791	707	101	1,064	78	

Report not received at time of going to press.
 Reports received weekly.

## Case Rates per 1,000 Population (Annual Basis) for the Month of October, 1928

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- cu- losis	Ty- phoid fever	Whoop- ing cough
Maine New Hampshire	1. 16	0. 25 . 10	3.48	0. 73	1.56 .93	0.18	0.40	0. 15 . 10	1.37
Vermont Massachusetts	3.69	.87	.74	3, 22	.84	/ .10	.44	.00	3, 95
Massachusetts	1.16	1.14	2.19	.41	1.46	.00	1.37	.11	. 92
Rhode Island	. 13	1.17	1.06	.02	. 89	.00	1.36	.08	. 58
Connecticut	1.14	. 73	.84	.36	. 62	.00	.79	.06	1.09
New York	1.03	. 65	.82	.26	. 68	.00	1.86	.42	1.06
New Jersey Pennsylvania 2	1.26	1.40	. 57		.77	.00	1.08	. 15	1.15
Ohio Indiana <sup>2</sup>	2.06	.78	. 62	.33	1.35	.07	1.08	. 24	1.24
Illinois	1.27	1.08	. 54	.26	1.32	.10	1.46	. 25	. 63
Michigan	1 91	1.00	.46	.30	1.47	.14	1.89	.12	2.19
Wisconsin	3.47	.40	.92	.48	1.50	.14	.60	.07	1.60
Minnesota	3.24	.62	.62		1.54	.02	1.37	.15	.60
Iowa	.81	.36	.02	.43	1.29	.17	.15	.08	.19
Missouri	. 51	.77	. 14	.12	1.05	.09	.90	.30	1 .4
North Dakota	. 52	.68	. 18	.02	1.45	.00	.41	.11	.40
South Dakota	.86	. 32	.07	.03	1.43	.39	.02	.07	.2
Nebraska	.28	1.26	.47	.09	1.58	.09	1.10	.05	.2
Kansas	1.85	.88	.13	.62	2.44	.34	1.38	.22	1.2
Delaware	.15	.29	.84	.15	. 58	.00	.44	1.02	1.3
Maryland	.80	1.09	. 56	.47	1.21	.00	2.04	.94	2.2
District of Columbia	.30	5.35	. 24	1	1.05	.00	2.80	. 24	.6
Virginia		2.53	.95		2.04	.02	1.60	.54	1 .7
Virginia West Virginia	.81	. 97	.43		1.97	.07	.22	.84	1 .4
North Carlina	.65	3,85	.34	1	2.24	.07	1	.59	
South Carolina	.22	4.14	.14	.09	.49	.03	.86	1.14	
Georgia		.63	.07	.06	.38	.01	.14	.35	:i
Florida !	1 .30	۰.۰۰	1 .3,	1 .30			1 .13	1 .00	i

<sup>&</sup>lt;sup>1</sup> Pulmonary.

Exclusive of Oklahoma City and Tulsa.
 Reports received annually.

<sup>&</sup>lt;sup>3</sup> Report not received at time of going to press.

#### Case Rates per 1,000 Population (Annual Basis) for the Mouth of October. 1928—Continued

	Chick- en pox	Diph- theria	Mea- sles	Mumps	Scar- let fever	Small- pox	Tuber- cu- losis	Ty- phoid fever	Whoop- ing cough
Kentucky 3									22
Tennessee	.27 .11	1.47 2.05	.04	.07	. 97 . 81	.02	.66 1.86	1.13 .61	.35
Alabama Mississippi	1.49	1.54	.88	1.14	.08	.01	1.55	.69	3, 58
Arkansas	.27	.70	.11	.19	.74	.01	. 15	. 46	.35
Louisiana	.03	.77	. 19	.01	. 33	.03	1.78	. 50	. 15
Oklahoma 4	.09	1.94	. 10	.01	. 89	. 14	. 32	1. 22	.14
Texas 3									
Montana	4.24	. 43	1.05	. 11	.99	1.46	1.34	. 87	.49
Idaho	. 35	. 24	. 15	.02	1.79	. 74	.06	.22	.04
Wyoming	4. 11	.81	. 24	1.10	4.45	1.53	1.05	.14	. 38
Colorado 2									
New Mexico 8	. 22	. 40	. 17	.07	.07	.05	1.15	.47	. 25
Utah 3							.	.	
Nevada	.	·		.			.		
Washington	2.96	. 28	.86	1.16	.92	. 86	.89	.33	. 45
Washington Oregon	1.51		.86		1.90			.21	
California	1.81	1.12	. 23		1.83			. 20	2.14
Current	1	1	i	1	1	1	1	j	1

Report not received at time of going to press. Reports received weekly.

SUMMARY AND WEEKLY REPORTS FROM GENERAL CURRENT CITIES

The 99 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 31,440,000. The estimated population of the 93 cities reporting deaths is more than 30,750,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Weeks ended December 8, 1928, and December 10,,1927

	1928	1927	Estimated expectancy
Cases reported			
Diphtheria:	0.000	0 655	
44 States	2,330	2,655	1, 280
99 cities	988	1, 203	1,200
feasles:	0.500	4, 746	1
43 States	3,722		
99 cities	860	1, 337	
coliomyelitis:	1		
44 States	42	166	
carlet fever:	1 1		1
44 States	3,867	3, 734	
99 cities	1, 202	1,082	1, 164
mallpox:	1	•	1
44 States	685	778	
	25	77	50
		• • •	1
Typhoid fever:	265	360	ł
44 States	52	64	70
99 cities	. 32	02	1 "
Deaths reported	1		
•	1 1		1
nfluenza and pneumonia:	1 1		1
93 cities	1,209	709	
Smallpox:	1 1		1
93 cit <b>ies</b>	. 0	0	

<sup>4</sup> Exclusive of Oklahoma City and Tulsa. 5 Reports received annually.

### City reports for week ended December 8, 1928

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 1919 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	heria	Influ	enza			
Division, State, and city	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	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
NEW ENGLAND									
Maine:			_					_	
Portland New Hampshire: Concord	76, 400 1 22, 546	11	2	0			38	0	2 2
Vermont:	i	"		"			ľ	۱ °	'
Barre Burlington Massachusetts:	1 10, 008 1 24, 089	7	0	0		0	2	9	2
Boston	787, 000	105	54	24	5	0	16	6	8
Fall River Springfield Worcester	131, 000 145, 000 193, 000	19	5 5 6	13	2	1	135 89	1	3 4
Rhode Island: Pawtucket	71,000	7	2	5	0	0	5	1	3
Providence Connecticut:	275, 000	0	12	21	2	/º	11	0	7
Bridgeport	(²) 164,000	11	10	7 9	3	2	. 3		2
New Haven	182, 000	13	3	2		1	2		i
MIDDLE ATLANTIC									
New York:							١.		1
Buffalo New York		29 289	25 202	20 200	36	- 0 15			
Rochester	321,000	21	11			. 0	1 3	14	
Syracuse New Jersey:	185, 000	18	6	0		- 0	2	0	9
Camden	131,000	15	. 7			- 8			
Newark Trenton	459, 000 134, 000	73	17						
Pennsylvania:	1	1	i -	1		1		1	1
Philadelphia		133 86				14			
Pittsburgh						. 6			
EAST NORTH CENTRAL		}		1		1		1	
Ohio:		1		1	1	1	1	1 .	
Cincinnati		21 181		19		0 2	100	0 0	
Cleveland						ة ا	1 17	3 1	6
Toledo								2	6 8
Indiana: Fort Wayne	_ 99, 900	10			. 1			) (	) 0
Indianapolis	_ 367,000	156						3	
South Bend Terre Haute	_ 81,700	)   1	.   2	: (			• •		)   1
Illinois: Chicago	3,048,000	245	90	3 173	3 84	5 10	) 5	0 1:	L 85
Springfield Michigan:									5
DetroitFlint	1, 242, 044 136, 000				7 4			6 2	2 39
Grand Rapids	156,000	51 °			5				

<sup>&</sup>lt;sup>1</sup> Estimated, July 1, 1925.

<sup>&</sup>lt;sup>2</sup> No estimate made.

<sup>&</sup>lt;sup>2</sup> Special census.

# City reports for week ended December 8, 1928-Continued

		CD to be	Dipht	heria	Influ	enza	3.5		D
Division, State, and city	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 re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST NORTH CENTRAL— continued									
Wisconsin: Kenosha Milwaukee Racine Superior	52, 700 517, 000 69, 400 1 39, 671	8 207 24 1	2 30 3 1	0 6 2 0	4	0 3 0 0	7 89 10 0	1 15 1 0	0 8 1 1
WEST NORTH CENTRAL		i	1	1		1	1	1	
Minnesota:     Duluth     Minneapolis St. Paul Iowa:	113, 000 434, 000 248, 000	18 327 118	1 29 19	0 5 0		2 2 0	47 3	1	5 15 9
Davenport Des Moines Sioux City Waterloo	1 52, 469 146, 000 78, 000 36, 900	16 0 12 11	1 5 3 0	0 2 0 2			0 0 0 1	8	
Missouri: Kansas City St. Joseph St. Louis	375, 000 78, 400 830, 000	40 9 63	13 2 51	2 0 48	44 8 3	0	23 0 2	)	
North Dakota: Fargo	1 26, 403	21 0	0	8		- 0	. 6		
Aberdeen	1 15, 036 1 30, 127	9	0	1			- 8		
Omaha Kansas:	216,000	4	6	1		0	1		
Topeka Wichita	56, 500 92, 500	33		3		3			
SOUTH ATLANTIC		1			1				
Delaware: Wilmington Maryland:	1	ı	1	1	1	1	1	0 6	3 35
Baltimore Cumberland Frederick	808, 000 1 33, 741 1 12, 035		. 1		[		)	7	0 0
District of Columbia: Washington Virginia:	528, 000	2	2	2 2	: ا	3	•	1	0 11
Lynchburg Norfolk Richmond	189,000	3	3 3		7	2	0	0	9 1 1 3 0 2
Roanoke	61, 900 50, 700	) 10	ا ا	2	5 0 1	5	2		
North Carolina: Raleigh	1 56, 20 1 30, 37 37, 70	1	0 :	2	0 7 7			0	0 0
Wilmington Winston-Salem South Carolina:	71,80	0	1	3	0		0	ŏ	0 10
Charleston Columbia Greenville	74, 10 41, 80 1 27, 31	0 1	3	ī	0 8		0 0 1	0	8 4 2
Georgia: Atlanta Brunswick Savannah	(2) 16,86 94,90	9	ōl	6 0 2	7 55 0 4 1	57 1 4 19	0	0 0	0 8 0 1 0 6
Florida: Miami St. Petersburg Tampa	131, 28	- 1	1	3	3		0	3	0 1 2 1 1 1

<sup>&</sup>lt;sup>1</sup> Estimated, July 1, 1925. 
<sup>2</sup> No estimate made. 
<sup>3</sup> Special census.

City reports for week ended December 8, 1928—Continued

			Diphi	heria	Influ	enza			
Division, State, and city	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 re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
EAST SOUTH CENTRAL									
Kentucky:			1				1	1	l
CovingtonLouisville	58, 500 311, 000	2 3	9	1 5	3	1 0	0	8	.3
Cennessee:	1 '	1	l .	1	•			1	14
Memphis Nashville	177,000	18	9	8		2 2	1 0	0	17
Alabama:		°		1		1	ľ	0	10
Birmingham	211,000	11	7	3	23	2	1 . 1	3	9
Mobile	66, 800 47, 000	8	2 2	3 5	4	4	. 8	0	1
WEST SOUTH CENTRAL	1.,,555	"	_	"	_				
		1		l	1	1	İ	1	}
Arkansas: Fort Smith	31, 643	4	2	1			. 0	2	
Little Rock	75, 900	4	2	2	1	0	0	3	4
Louisiana: New Orleans	419,000	0	12	8	14	5	1	0	15
Shreveport	59, 500	7	2	ŏ		.  ŏ	l î		1 6
Oklahoma: Oklahoma City	(2)	0	3	20	4	3			١.
Tulsa		11		7			. 1 6		3
Texas:	900 000	١ .	1		١.	1 .	١.		
Dallas Fort Worth	203, 000 159, 000	12	16	17	1		3		2
Galveston	. 49, 100	0	1	3	1 0	Ō	0	Ō	3
Houston San Antonio	1 164, 954 205, 000	1 1		25		- 1	9		8
MOUNTAIN	200,000	1 *	•	°		-  "	'	<u> </u>	
	1.	1		1			1		1
Montana: Billings	1 17, 971	1	. 0	ه ا	و ا	1 /1			1 .
Billings Great Falls	29,883		il ö			/ 4		3	
Helena	1 12 037	3	ilo	1 0	2, 150	) 1	. ] 1	1 0	1 6
MissoulaIdaho:	1 12, 668	1 9	) 0	0	24	4			1
Boise	1 23, 042	:   (	o i a	ا ا	· İ	. 0	1 (		1 (
Colorado:	205 000						1		1
Denver Pueblo	_ 285, 000 _ 43, 900	32				28			
New Mexico:	i i	1	i	1	1	i	1		1
Albuquerque	_ 1 21, 000		) (		1 4	5 0	)	0   1	
Utah: Salt Lake City	133,000	6 6	3 4			18	ıl i	0 20	
Nevada:	1	1		1		1	1		
Reno	1 12, 66	5 (			ין י	3 1	·   '	0	'
PACIFIC				1	l	ł	1	1	
Washington:	1	1	1			1	1		1
Seattle	(2)	2			3				3
Spokane Tacoma	109,000	0 8			5	7		1 3	3
Oregon:	1	1	٠ '	'	,	·-  '	1	1 3	'
Portland	1 282, 38	3 3	6 1:	1 1	7 12	0   :	1 2	7	3
California: Los Angeles	(n)	.	4 4	7 1	3 3,99	2 -	.	9 1	ه اه
Sacramento	73, 40	ol <sup>2</sup>			2 3,99	3 70	8	9 1 0 1	
San Francisco	567, 00	Ď 1			8 13				2

<sup>&</sup>lt;sup>1</sup> Estimated, July 1, 1925.

<sup>&</sup>lt;sup>2</sup> No estimate made.

# City reports for week ended December 8, 1928—Continued

	Scarlet	fever		Smallp	)X		T	phoid i	ever		
	Cases esti- mated expect- ancy	Cases re- perted	Cases, esti- mated expect- ancy	Cases re- ported	Death: re- ported	Tuber- culosis deaths re- ported	Cases, esti-	Cases re-	Deaths re- ported	Whooping cough, cases reported	Deaths, all causes
NEW ENGLAND											
Maine:	2	4	0	0	0	0	1	0	0		14
Portland New Hampshire:		0	0	0	0	0	l .	0	0	1	10
ConcordVermont:	1	١ '	1		"		1				
Barre Burlington	1	i	- 8		Ö	0	- 8		0	0	13
Massachusetts: Boston	63	56	0	11	1 0	15	1	0	0		214
Fall River	8 7	4	Ŏ	0	. 0	1	. 1	0		2	
Springfield Worcester	12		-  ŏ		-		. 6		-		-
Rhode Island: Pawtucket	Ó	3									
Providence Connecticut:	8	15	1	ı	ł	i		1	1		1
Bridgeport	8	1 3					2 6				40
New Haven	6		i l				3 1	1 (		0 4	35
MIDDLE ATLANTIC		1	1		1			1		1	
New York:		1 .				_					145
Butfalo New York	24 164					0 8	6 1	8   1	7	0 6	1,460
Rochester Syracuse	_ 10		3   (							0 3	
New Jersey:	1		1		1	1	1		i	0 1	3 33
Camden Newark	_ 18	3	8	0	Ō	0	7	1	0	9 2	1 109
Trenton Pennsylvania:	- 2				1	1	1	1	-	1	
Philadelphia - Pittsburgh	- 7€ - 37				0	0 3	8 7			0 10	8 154
Reading			i		0	0	1	0	9	0	8 33
EAST NORTH CEN-	-			1	1				1 .	1	
Ohio:	_			_	_			,	3	0	8 134
Cincinnati Cleveland	3	5 8	1	1	0	0	9	1	1	0   6	0 186
Columbus Tol <b>e</b> do	1		5 8	0	0	0	3 7	0	1	0 4	6 87 10 80
Indiana: Fort Wayne	1		10	0	0	0	1	0	0	0	2 24
Indianapolis South Bend	1		io	4	1 2	0	0	0	1 0	0	19 109 1 10
Terre Haute.		4	2	Ŏ.	õ,	ŏ	ŏ	ŏ	ŏ	Ō	0 17
Illinois: Chicago	11		08	8	11 0	0	53 2	4 0	3 0	1 0	841 3 24
Springfield Michigan:		2	9		- 1	- 1	_	2	2	1	54 302
Detroit Flint		37   1 12	9	0	0	0	23	0	0	0	7 39
Grand Rapid Wisconsin:	ls_ 1	10	8	0	0	0	1	0	0	0	9 42
Kenosha Milwaukee		222	2 56	0	0	0	0 2	0	0	0 1	1 6 11 94
Racine	1	5 2	7	1 0	0	0	2	0	0	0	0 8
Superior WEST NORTH CEL		1									
Minnesota:										-1	
Duluth Minneapolis		8 50	11 20	0 5	0	0	1 3	0	0	0	1 23 28 92
St. Paul		25	19	6	ŏ	ŏ	3	î	ŏ	ŏ	32 54
Iowa: Davenport		1	0	0	1			0	0		031
Des Moines. Sioux City		8	36	0	0			0	0		1
		3 l	24	0	0	1	1	0 1	0		16

# City reports for week ended December 8, 1928—Continued

	Scarlet	fever	1	Smallpo	x .		Ту	phoid f	ever		
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	Whooping cough, cases reported	Deaths, all causes
WEST NORTH CENTRAL—continued											
Missouri: Kansas City St. Joseph St. Louis North Dakota:	13 3 36	20 0 20	1 1	0 1 0	0 0	9 0 19	2 0 2	0 0 2	0 0	12 9 34	130 19 232
Fargo	. 3 0	3 0	0	0	0	1	. 0	0	0	. 2	7
Aberdeen Sioux Falls, Nebraska:	1 2	0	0	0		ļ	0	0		. 8	5
Omaha Kansas:	. 7	3	2	1	0	1	0	0	0		33
Topeka Wichita	5	6	0		0		0	0	0		24 25
SOUTH ATLANTIC Delaware:											
Wilmington Maryland:	4	3	0	ł	0	1	ı	0	1		1
Baltimore Cumberland Frederick District of Colum-		27 1 0	0	0	0	0	1	0 0	0	0	7
bia: Washington Virginia:	_ 20	12	0	0	0	8	2	0	1	. 12	122
Lynchburg Norfolk Richmond Roanoke	2 2 7 2	1 0 10 7	0	Ö		0 2	0	000			48
West Virginia: Charleston Wheeling	_ 2	2	. 0								27 8
North Carolina: Raleigh Wilmington Winston-Salen			.   0	) (	) (	)   1	. 0		) (	) (	23 15 19
South Carolina: Charleston Columbia Greenville		j	. 1	1 (			L   0		) (	5 1	24 24 5 12
Georgia: Atlanta Brunswick	. 5	19					3 1		5-	8	93
Savannah Florida: Miami	1		1		•		3 0	Į.	1	1	1 34 0 21
St. Petersburg Tampa	r_  0	) 1	1 (	į	(	0   :		)	(	D	3 13 21
EAST SOUTH CENTRAL	-										
Kentucky: Covington Louisville							0 9	2			0 21 5 91
Tennessee:  Memphis Nashville Alabama:	<u>-</u>					0 1	5			0	8 93 1 64
Birmingham. Mobile Montgomery.			2	ō l			i   (	0		0	2 66 0 41 0

## City reports for week ended December 8, 1928—Continued

	Scarlet	fever		Sma	llpo					Туг	hoid f	ever		Wh			
Division, State, and city	Cases esti- mated expect- ancy	Cases re- ported	Cases esti- mated expect ancy	Ca N Pos	ses	Dear re- port	ths	uber- ilosis, eaths re- orted	Ca es ma exp an	ti- ted ect-	Cases re- ported	Dea r poi	aths e- rted	cou ca ca	ug 🖠	8	aths, all uses
WEST SOUTH CEN- TRAL																	-
Arkansas: Fort Smith Little Rock	1 2	3 13	0		0		0	5		0	0 1		<u>-</u>		0		<b>-</b>
Louisiana: New Orleans Shreveport	7 2	11 3	0		0		0	12 1		1	6 3		1 0		0 2		150 39
Oklahoma: Oklahoma City Tulsa	3 2	5 5	1		0		0	0		0	.0		0	_	0 1	ļ	8
Texas: Dallas Fort Worth Galveston Houston San Antonio	6 2 0 2 2	13 11 1 8 2			1 2 0 0 0		0 0 0 0	2 0 0 2 4		1 0 1 0 1	0 0 0 2 0		0 0 0 1 2		4 0 0 0 0		48 43 13 64 52
MOUNTAIN  Montana: Billings Great Falls Helena Missoula		0 0 2 0			0 0 0		0 0 0	0 0 1 0		0 0 0	0 0		0		2 0 0 0		4 14 8 8
Idaho: Boise	1	1			0		0	0		0	0		0	•	0	1	9
Colorado: Denver Pueblo	13 2	2		3	0		0	8		0	9		0		2 0		127 11
New Mexico: Albuquerque.		1	1		0		0	1	1	0			c		1		3
Utah: Salt Lake City Nevada:	3	4		2	0		0	2	:	. ,1	(	•	(		0		67
Reno	- 0	0	)	0	0		0	•	)	0	(	'	(	)	0	1	3
Washington: Seattle Spokane Tacoma	9 - 10 3	16		2 7 3	0 3 0		0			0 0 0	1 :	2		0	21 0	)	29
Oregon: Portland	. 8	14	ı	7	17		0		3	1		0	(	0	C	)	68
California: Los Angeles - Sacramento - San Francisco	2	14	5	3 1 0	0	1	0 0 0	19	4	2 0 1	1 (	0	(	0	34 2 10	2	441 49 169
- Trancisco	<u>-</u>		<del></del>	Meni		<del>-</del>		thargi			ellagra		Pol	liom			infan-
			C1	is m	enin	gitis	ence	phali	tis ——		-Inagra			tile	para	lysi	s)
Division, S	tate, an	d city	C	ases	Des	ths	Case	s Dea	ths	Cas	es Des	ths	Cas ma exp an	ti- ted ect-	Case	es 1	Deaths
maine.	ENGLAN	D		•							0	0		0			0
Portland Massachusetts: • Boston				0		1 0	1	1	0		0 .	0		1	i	2	0
Connecticut: Bridgeport				0		0	1		1	ŀ	0	0		0		0	0
MIDDLE New York:	ATLAN'	ric															
Buffalo New York C	ity			2 28		1 11	9		0 2		0	0		0 2		0	0 1
New Jersey: Newark				1		0			0		0	0		1		0	0
Pennsylvania: Philadelphia Pittsburgh				0		1 2			0		0	0		0		0	0

## City reports for week ended December 8, 1928-Continued

	Meni cus me	ngococ- ningitis	Leti	hargic halitis	Pel	lagra	Polion tile	yelitis paraly	(infan- sis)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, esti- mated expect- ancy	Cases	Deaths
EAST NORTH CENTRAL Ohio:									
Cleveland	8	1	0	1	0	0	0	0	1
Columbus Toledo	0	0	1 0	1 0	0	8	0	0	0
Illinois:		_	İ	l			1	ı	0
Chicago Michigan:	8	3	1	0	6	0	0	0	0
Detroit	7	3	2	0	0	0	1	0	0
FlintWisconsin:	1	1	0	0	0	0	0	0	0
Milwaukee	3	1	0	0	0	0	0	0	0
Racine	1	0	0	0	0	0	0	0	0
WEST NORTH CENTRAL		l		ł	1	1	1	l	1
Minnesota: St. Paul	0	0	0	2	0	0	0	١٥	0
Iowa:	1	1		1	1	I	1	1	1
Des Moines	0	0	0	0	0	0	0	1	0
Kansas City	1	0	0	0		0		0	0
St. Louis North Dakota:	4	1	0	0	0	0	0	0	0
Fargo	0	0	1	0	0	0	0	0	0
SOUTH ATLANTIC	1	ł	1	1		1	İ	1	
Maryland:		1	1	1 .	1 .	1 .		١.	1
Baltimore District of Columbia:	. 1	0	0	2	0	0	1	1	0
Washington	. 0	1 0	0	0	1	1	. 0	0	0
Virginia: Richmond	1	· o	0	ا ا	0	1 / 0	ر ا		
South Carolina:	1	1		1		<i>V</i> '	}	1	1
Charleston 1	0	0							0 0
Columbia Greenville	Ö	l ŏ	i o						
Georgia: 2 Atlanta	. 0		0		) a				ه اه
EAST SOUTH CENTRAL	"	1 '	΄ Ι ΄ ΄	' l	'  '	'	Ή `	Ή `	'   °
Tennessee:	1			1	1		Į.		
Memphis	_ o	0	) a	1 0	) 1	.   (			0
Alabama: Mobile	۱ ۵	1 0	ا ا	,	0 0	, ,		، ا	0
Montgomery	Ö	6							
WEST SOUTH CENTRAL		1							
Arkansas:	1 .	ļ	1					. 1	
Little Rock	- 1	1	) (		ם ום	) (	) (	9 9	0
New Orleans	. 1		) (		0 2	2 :			) 0
Shreveport Texas:	- 0	1 1	) (	)   (	0 0	)   :	2   (	יוס	0 0
Dallas	. 1	.] (	) (	) (	0 0	) (	o   :	1	0 0
MOUNTAIN	1	1	1		1	İ	1	1	
Idaho:	1		i		- 1	1	ł		١.
BoiseColorado:	-  2	:	0   0	0	0   1	יוס	D	0	0 0
Denver	. 4		2 0	0	0	0	0 .	0	0 (
Utah:	1	1	-	.	، ا	١	0	0	ه اه
Salt Lake City	-  '	3	1 '	0	0	١,	۳	١,	ĭI `
PACIFIC Weshington:	1				-			1	
Washington: Spokane		o	0	0	0	0	0	0	1 (
Oregon: Portland	- 1	l.		ı		ı	0	1	1
California:	-	1	0	0	۷	۲)	٠	1	-
Los Angeles		1		o		o	o l	Q	0
Sacramento San Francisco		4	0	2	0	0	0	0	ö
~~~~	1	- [	-	-   '	-	-	- 1	-	1 _

<sup>&</sup>lt;sup>1</sup> Dengue; 5 cases at Charleston, S. C. <sup>2</sup> Typhus fever; 2 cases at Savannah, Ga.

The following table gives the rates per 100,000 population for 101 cities for the 5-week period ended December 8, 1928, compared with those for a like period ended December 10, 1927. The population figures used in computing the rates are approximate estimates as of July 1, 1928 and 1927, respectively, authoritative figures for many of the cities not being available. The 101 cities reporting cases had estimated aggregate populations of approximately 31,657,000 in 1928 and 31,050,000 in 1927. The 95 cities reporting deaths had nearly 30,961,000 estimated population in 1928 and nearly 30,370,000 in 1927. The number of cities included in each group and the estimated aggregate populations are shown in a separate table below.

rates per 100,000 population compared with rates for the corresponding period of 1927 i Summary of weekly reports from cities, November 3 to December 8, 1928-Annual DIPHTHERIA CASE RATES

		711111	LEKIA	CASE	KAIE					
					Week e	nded—				
	Nov. 10, 1928	Nov. 12, 1927	Nov. 17, 1928	Nov. 19, 1927	Nov. 24, 1928	Nov. 26, 1927	Dec. 1, 1928	Dec. 3, 1927	Dec. 8, 1928	Dec. 10, 1927
101 cities	152	2 215	159	228	³ 164	203	4 151	232	<sup>5</sup> 164	204
New England Middle Atlantic East North Central West North Central South Atlantic East South Atlantic East South Central West South Central West South Central Pacific	169 210 242 180 272	160 204 253 160 189 208 294 278 224	159 134 166 197 207 100 240 239 97	163 233 251 152 216 238 343 206 222	140 137 183 185 3 223 130 268 124 105	170 212 219 178 195 122 302 170 162	195 131 185 164 121 140 220 4 53 72	267 251 220 178 224 167 269 143 259	\$ 213 159 190 148 139 125 256 35 100	216 228 227 129 189 71 215 143 167
		MEA	SLES	CASE I	RATES		' <u>-</u>	•	<u></u>	
101 cities	73	2 96	94	124	3 108	136	4 115	189	§ 143	225
New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central Mountain Pacific	42 57 43 56 5 8	342 124 27 16 135 76 12 18 2 76	382 69 86 62 84 15 12 203	281 147 70 72	582 59 105 101 3 60 5 4 239	162 87 27	605 46 132 66 63 0 16 4441 72	539 180 121 24 307 20 120 27 227	4 757 46 187 193 53 15 40 186 43	539 199 140 49 525 365 132 36 178
	80	ARLE	T FEV	ER CA	SE R	ATES				
101 cities	_ 164	2 150	169	177	3 176	158	171	184	5 200	184
New England	- 95 - 233 - 253 - 142 - 160 - 176	110 177 186 182 152 103 152	193 106 245 224 105 249 196 97 143	152 201 232 155 112 103 7 233	109 227 283 143 244 144 106	122 195 204 171 86 165 179	186 102 238 220 137 145 184 4 123 261	155 192 249 173 147 141 359	\$ 238 141 260 263 165 259 216 80 197	321 156 216 206 133 81 116 305

<sup>&</sup>lt;sup>1</sup> 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, 1923, and 1927, respectively.

<sup>2</sup> Seattle, Wash., and Spokane, Wash., not included.

<sup>3</sup> Greenville, S. C., not included.

<sup>4</sup> Denver, Colo., not included.

<sup>5</sup> Barre, Vt., and Worcester, Mass., not included.

Summary of weekly reports from cities, November 3 to December 8, 1928—Annual rates per 100,000 population compared with rates for the corresponding period of 1927—Continued

SMA	LL	PO	X C	AS	E F	LAS	ES
-----	----	----	-----	----	-----	-----	----

			•		Week e	nded				
	Nov. 10, 1928	Nov. 12, 1927	Nov. 17, 1928	Nov. 19, 1927	Nov. 24, 1928	Nov. 28, 1927	Dec. 1, 1928	Dec. 3, 1927	Dec. 8, 1928	Dec. 10, 1927
101 cities	4	* 16	3	. 19	37	22	46	17	84	1
ew Englandliddle Atlantic	0	0	0	0	0	0	5	. 0	\$ 3 0	
ast North Central	7	4	4	6	21	1	12	10	10	
est North Central	6	156	2 2	160	2	202	8	115	2	•
outh Atlantic ast South Central Jest South Central	0	5	5	9 5	3 0 15	2	5 0	5 10	0,0	
Jest South Control	. 4	4	ő	4	8	4	12	8	20	1
Iountain.	. j	27	88	27	ំ	54	4 71	45	ð	,
acific	15	33	3	29	18	44	8	39	Š	
	TY	PHOI	) FEV	ER CA	SE RA	TES		······································	<b>'</b>	
101 cities	9	2 15	10	15	19	10	47	9	5 9	
lew England	9	16	16	23	7	14	- 5	7	5 5	
Iddle Atlantic	7	15	10	14	9	10	7	10	7	
ast North Central	5	9	6	7	5	6	5	5	7	
Vest North Central	4	28	14	20	16	14	8	12	4	
outh Atlantic Last South Central Vest South Central	16 30	20 5	11	25 15	<sup>3</sup> 11 25	9 15	5	16	7	
Vact South Central	40	33	10 20	29	12	12	16	15 21	20 48	
fountain	27	9	18	18	9	27	4 18	9	ll 👸	
acific	3	27	5	13	13	5	3	5	5	
	1	NFLU	ENZA :	DEATI	I RAT	es/			!!	·
95 cities	12	8	15	9	3 16	10	4 30	12	5 48	
New England	5	2	9	5	9	2	9	5	5 10	_
Middle Atlantic	12	1. 9	9	7	15	10	10	111	17	
New England Middle Atlantic East North Central	9	5	10	2	3	5	14	9	18	
west North Central	. 2	2	6	10	6	6	12	4	43	:
South Atlantic	. 7	16	14	20	3 12	13	29	13	51	
East South Central	. 26	16	16	21	21	48	21	48	58	
West South Central	. 37	17 18	33	34	33	34	53	42	53	
Mountain Pacific	27	10	53 64		95	18	4 353 240	27 14	513 294	
	:	PNEUI	MONIA	DEAT	'H RA'	res	-	•		
95 cities	. 91	104	102	112	1 122	95	4 134	113	5 15	7
Now England	- 80	95	1	100	100		1-0-	100	1	- -
New England	105						85 141		5 S	
New England Middle Atlantic East North Central	- 100						120		13	
West North Central	. 65			81			100		12	
South Atlantic	_1 74				3 161	144	140			
East South Central	146						162		28	ž
	- 90						140		28 17	6
West South Central	_  54									
East South Central West South Central Mountain Pacific	_  97	143	115		159		4 150	54 103	33	6

Seattle, Wash., and Spokane, Wash., not included.
Greenville, S. C., not included.
Denver, Colo., not included.
Barre, Vt., and Worcester, Mass., not included.

Number of cities included in summary of weekly reports, and aggregate population of cities of each group, approximated as of July 1, 1928 and 1927, respectively

Group of cities	Number of cities reporting		Aggregate of cities cases	population reporting	Aggregate of cities deaths	population reporting
	Cases	deaths	1928	1927	1928	1927
Total  New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central West South Central Mountain	101 12 10 16 12 21 7 8 9	95 12 10 16 10 21 6 7	31, 657, 000 2, 274, 400 10, 732, 400 7, 991, 400 2, 683, 500 2, 981, 900 1, 048, 300 1, 307, 600 591, 100	31, 050, 300 2, 242, 700 10, 594, 700 7, 820, 700 2, 634, 500 2, 890, 700 1, 028, 300 1, 260, 700 581, 600	30, 960, 700 2, 274, 400 10, 732, 400 7, 991, 400 2, 566, 400 2, 981, 900 1, 000, 100 591, 100	30, 369, 500 2, 242, 700 10, 594, 700 7, 820, 700 2, 518, 500 2, 890, 700 980, 700 1, 227, 800 581, 600

### FOREIGN AND INSULAR

### THE FAR EAST

Report for the week ended December 1, 1928.—The following report for the week ended December 1, 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, or smallpox was reported at the following ports:

PLAGUE

Ceylon.—Colombo.
India.—Bombay.
Indo-China.—Pnompenh.

CHOLERA

India.—Calcutta, Madras, Rangoon, Tuticorin. Siam.—Bangkok.
French India.—Pondicherry.

BRALLIOA

India.—Bombay, Madras, Negapatam, Calcutta, Moulmein.

French India.—Pondicherry.
Indo-China.—Pnompenh.

Dutch East Indies.—Samarinda. Hong Kong.

China.-Shanghai.

### CANADA

Provinces—Communicable diseases—Week ended December 8, 1928.— The Department of Pensions and National Health reports cases of certain communicable diseases from seven Provinces of Canada for the week ended December 8, 1928, as follows:

Disease	Nova Scotia	New Bruns- wick	Que- bec	On- tario	Mani- toba	Sas- katch- ewan	Alber- ta	Total
Influenza_ Poliomyelitis Smallpox Typhoid fever	18	3	2 20 8	2 2 18	1 2 1 1	11	1 13 1	19 7 47 32

Quebec Province—Communicable diseases—Week ended December 8, 1928.—The Bureau of Health of the Province of Quebec reports cases of certain communicable diseases for the week ended December 8, 1928, as follows:

Disease	Cases	Disease	Cases
Chicken pox Diphtheria. German measles Influenza Measles. Mumps	118 66 9 77 27 25	Poliomyelitis Scarlet fover Smallpox Tuberculosis Typhoid fever Whooping cough	2 106 12 32 8 25

### CUBA

Habana—Communicable diseases—November, 1928.—During the month of November, 1928, communicable diseases were reported in Habana, Cuba, as follows:

Disease	New cases	Deaths	. Disease	New cases	Deaths
Cerebrospinal meningitis Diphtheria Leprosy Malaria	1 5 1 144	4	Measles Scarlet fever Typhoid fever	108 2 28	1 4

Provinces—Communicable diseases—August 26-October 27, 1928.— During the nine weeks from August 26 to October 27, 1928, communicable diseases were reported from the six Provinces of Cuba as follows:

Disease	Pinar Del Rio	Habana	Matan- zas	Santa Clara	Cama- guey	Oriente	Total
Chicken pox. Diphtheria. Malaria. Measles. Paratyphoid fever. Scarlet fever. Tetanus (infantile). Typhoid fever.	4 1 3 4 1	5 18 142 160 3 14 2 121	6 2 9 1	3 6 5 12 19	77 2	2 6 137 1 1 1	10 40 362 178 38 17 3

### **ITALY**

Communicable diseases—September 3-16, 1928.—During the two weeks ended September 16, 1928, communicable diseases were reported in the Kingdom of Italy as follows:

	Ser	ot. 3-9	Sept	. 10–16
Disease -	Cases	Communes affected	Cases	Communes affected
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Lethargic encephalitis Measles Poliomyelitis.	61 2 36 250 66 3 465 23	46 22 24 150 39 3 147 16	106 8 40 288 73 6 458	73 7 7 22 172 36 5 146
Scarlet fever Typhoid fever	303 1, 544	121 661	300 1, 689	120 718

### TRINIDAD

Vital statistics—Port of Spain—October, 1928, comparative.—The following statistics for the month of October, 1928, with comparisons for October of the years 1924 to 1928, are taken from a report issued by the Public Health Department of Port of Spain:

Vital statistics of Port of Spain for October, 1924, 1925, 1926, 1927, and 1928

Year	Births	Birth rate per 1,000 population	Deaths	Death rate per 1,000 population	Infant mor- tality rate per 1,000 births
1924	147	27. 42	109	20. 33	129. 25
1925	164	30. 19	115	21. 17	158. 54
1926	161	29. 37	139	25. 36	161. 49
1927	187	83. 86	119	21. 55	128. 34
1928	163	29. 35	121	21. 64	98. 16

Estimated population June 30, 1927-65,573.

Deaths from diseases, October, 1928.—The following table shows the number of deaths from certain diseases in Port of Spain during the month of October, 1928:

Disease	Deaths	Disease	Deaths
Cancer and other malignant tumors. Diphtheria. Dysentery. Influenza. Malaria. Pneumonia and broncho-pneumonia.	2	Tuberculosis, pulmonary Typhoid fever Venereal diseases: Syphilis. Other venereal diseases.	14 3 4 1

# 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

	Mar	Apr	May			July	Aug.				We	Week ended-	- pa				
Place	11- Apr.	May	Pul.	June 1928,	July 1-28, 1928	Aug 25	Sept.	Sept.		October, 1928	1928		ž	venb.	November, 1928		96. 1.
	1928	1928	1828			1928	1928	1928	<b>5</b> 0	13	8	22	8	01	17	*	1928
Ceylon: Colombo					-												
	AC				-							$\dagger \dagger$	H	T	<del>     </del>	$^{+}$	
	7 0			67	œ	41						+	$\frac{1}{1}$	П	-	$\frac{1}{1}$	
			-	2	œ	C4					Ħ	$\frac{11}{11}$	H	$^{+}$	H	$\frac{++}{11}$	
Shanghal	30					63	- 67					H	$^{+}$	H	∺	$^{+}$	
	ADI			3	7		00		-	-	-	╫	$\frac{++}{11}$	$\dagger \dagger$	$^{+}$	$\frac{11}{11}$	
otavia	ส์ส์	32, 564 20, 432	30, 177	31,346	44, 240 23, 216	52, 786 26, 967	32, 287 17, 731	4,907	4, 021 2, 239	3, 598 2, 293				$\dagger\dagger$		++	
		4	<del>2</del> 1	<b>x</b> 0	9 =	G 10	94	98	4.00	-2	-			H	$\frac{11}{111}$	က	
Calcutta	2 2 2 3 3	44 88 82 83	652 410 27	\$ 25 g	288	25 53 25 53	843	222	9 13	∞ <del>&amp;</del> α	12	228	483	33	88.4	<del>+                                    </del>	æ
		18	1,314	878	31	22.1	88	22	*8	12	6	31	<u>;</u>	ត	ਲ 	12	15
Moulmein.			20	3													
	CC 52 52 52 52 52 52 52 52 52 52 52 52 52	282	7	E 4 6		က္ကဏ္ဏ	<u></u>					#		+	<del>i</del> i.	- 8	

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

## CHOLERA-Continued

											A	Week ended-	å				
	Mar.	Apr.	May	Tune	1	July	Aug.										
Place .	Apr.	May 5.	June 2.	98,0	1. 88.88	Aug. 55	Sept.	Sept.		October, 1928	1928		No	vemb	November, 1928		Dec. 1.
	1928	1928	1928			1928	1928	1928	•	13	8	22	80	. 01	17	78	1928
India—Continued.		Q.				-	-				-						-
Trismoster D	30	22				1 6					1			-		i	•
India (French): Chandernagor	7				- 81	- 6	- w				92		22	=	8	<u> </u>	
		1			-	~ <u>8</u>	~=		4	1	7		12	20 4	40	<u></u>	
D Pondicherry Province C					60 6	212	888		40-		10 1	4.		<del></del>	<b>10</b>	<u> </u>	
Indo-China (see also table below): Prompenh	•	0			o wa	3 ~			1	9	•	•	1		-	•	
Salgon. C	88	116	15	9	100	67	7 67										
		92	6		-		-						+		$\frac{1}{1}$	+	
				-					-							H	
Kwangchow-Wan (see table below). Persian Gulf.											,						
Jask.																	
Philippine Islands: Bulacan Province— Malolos					-												
Paombong.						-					Ħ		H	H	H	H	
					•	Ī											
Ballesteros.						61				İ	i			H		÷	

1	August, 1928 September, 1928 October, 1928 November, 1928	1-10 11-20 21-31 1-10 11-20 21-30 1-10 11-20 21-30 1-10 11-20 21-31 -10 11-20	165 19 19 15 15 9 4 6 26 20 27 4
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE

											Week ended-	nded-	١.				
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	July 29- Aug. 25, 1928	Aug.26- Sept. 22, 1928	Sept.		October, 1928	1928		Ž	November, 1928	r, 1928	-	December, 1928	, <u>, , , , , , , , , , , , , , , , , , </u>
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Santiago del Estero		6	· 9	•				1									
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Belgan Congo: Djugu Lenta		Ì	i								69	+	+	$\dashv$		$\dashv$	į
Bolivia: Valle Grande.	9	69			д										-		
British East Africa (see also table below): Mombasa.	<b>6</b>	က				-	-	-		<del>                                     </del>		$\dagger$	+	$\dotplus$	+	<u> </u>	
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1 During the period from Nov. 10 to Dec. 11, 1928, 13 cases of plague were reported at El Mollar, Tucuman Province, Argentina. During the same period 1 case of plague was reported to thipton and 1 at Ucacha, both in Cordon's Province, Argentina.

11 plague-infected rais were reported at Duenos Aires, Argentina, from July 1 to Oct. 25, 1928.

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

PLAGUE—Continued

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											Week ended-	-pepu					
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	July 29- Aug. 25, 1928	Aug.26- Sept. 22, 1928	Sept.		October, 1928	1928		ž	November, 1928	ar, 1928		December, 1928	Ber,
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Plague-infected rats.  Dulaim Liva.  Kwangchow-Wan (see table below).  Madagascar (see also table below):			୍ଷ ବ	100	œ	6-	1-4	60		61						
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

PLAGUE-Continued

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Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	July 29- Aug. 25, 1928	Aug.26- Sept. 22, 1928	Sept.	9	October, 1928	1928		Š	November, 1928	r, 1928	<u> </u>	December, 1928	er,
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April- June, 1928	28 28 28 28 28 28 28 28 28 28 28 28 28 2
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Place	Madagascar—Continued.  Tananarive Province—  Discris (see also table above)—  Discris (see also table above)—  Cayor—  Cayor—  Discris Minsque—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor—  Cayor
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P1a00	Algaria (see also table above):  Algiera.  Abjera.  Abjera.  Abjera.  Abjera.  Renya.  Uganda.  Constructed rats.  Ecuador: Guayaquil.  Destructure (see table above).  Kwangchow Wan  Ambositra Province.  Antisirabe Province.  Majunga.  Majunga.  Majunga.  Tamatave.  Antisirabe Province.  Destruction of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of the above of

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

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

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### SMALLPOX

					July	<u> </u>					We	Week ended-	Pg I					
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1-28, 1928	Aug. 25,	Sept.	Sept.		October, 1928	, 1928		No	November, 1928	1928	-	December, 1928	er, 192	۱
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Algeria. Angola (see table below). Arabia: Aden. Brazil (see also table below): Brutain (see also table below): Permanthor (Reolis) British Bast Africa: Kenya-Mombasa British Bouth Africa: Northern Rhodesia. D Canada: Aborta. Aborta. Canada: Aborta. Alberia. Comada: Alberia. Comada: Alberia. Comada: Alberia. Comada: Alberia. Committed Comada: Alberia. Committed Comada: Alberia. Comada: Alberia. Committed Comada: Alberia. Committed Comada: Alberia. Committed Comada: Anomicoa Comada: Anomicoa Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada: Comada	247 1 86245 2047 864 12898 5	28 1 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	514 11 5184 0 40 75 1 E E E E E	000 L \$084 0414 10 L804	80.1	8 22 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 60 10 11 10	4 2 8 2 8 4 1 m 2 m 2 m 4 m 2 m 2 m 2 m 2 m 2 m 2 m 2	21 4 1 10 2 2 24.0		2	4 2 Gue	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-   22 + i-   3 to			

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

# SMALLPOX-Continued

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

					July	Aug.					₩	Week ended-	Į,				
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•					1928	1928	1928	9	13	8	72	 	9	. 41	75		8 15
Mexico (see also table below): Acapulco		8															
Jalisco (State)	12 I	ed   55 eo ed	2208	9 8	F-004	e 1				-		<u> </u>		100			
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Merocco (see table below).  Nigeria (see also table below):  Lagos  Southern Provinces  C			1252													- !!	
Forms (see table below).  Point D  Portugal (see also table below):	он <b>с</b>	1 2	-1 00	C1 00	-					1							
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144 252 34 34 34 34 34 34 34 34 34 34 34 34 34	July, 1928 1928 20 4 20 2 20 1	o
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

# SMALLPOX-Continued

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

Octo- ber, 1928	10 12 15 16 16 16 16 16 16 16 16 16 16 16 16 16
Sep- tem- 1928	4 20
Au- gust, 1928	
July, 1928	1 1,059 1,059 100 100
April- June, 1928	172 5681
Janu- ary- March, 1928	1,084 1,084 1,135 1,135 1,177 1,177
Place	Latvia
Octo- ber, 1928	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sep- tem- ber, 1928	<u>'                                    </u>
Au- gust, 1928	1 1 2 3 88 22 1 1 89 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
July, 1928	1 1 1 2 38 38 2 1 1 1 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
April- June, 1928	221 65 65 64 31
Janu- ary- March, J	## ## ## ## ## ## ## ## ## ## ## ## ##
Place	Angola.  Congo.  Congo.  Congo.  Cuanta-Sul.  Ioanda.  Brail (see also table above):  Porto Alegre.  Chosen.  Seoul.  Ecuador: Guayaquil.  D.  Franco.  Gold Coset.  Congo.

### TYPHUS FEVER

				-	Tester						Week ended—	nded-				
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1-28,	g g g g g g g	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Sept.		October, 1928	8261		Z	November, 1928	er, 1928		Dec. 1.
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

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

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					July	Aug.				W	Week ended-	- pel				
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	7.88, 1928,	July 1-28, 1928	Aug. 25	8 8 % 13 %	Sept.	Oct	October, 1928	88		ž	November, 1928	ж, 1928		Dec. 1
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Place	Jan- uary- March, 1928	April- July, June, 1928	July, 1928	Au- gust, 1928	Sep- tem- ber, 1928	Octo- ber, 1928	No- vem- ber, 1928	Place	Jan- uary- March, 1928	April- July, June, 1928 1928	July, 1928	Au- gust, 1928	Sep- tem- ber, 1928	Octo- ber, 1928	No- vem- ber, 1928
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CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER-Continued

### YELLOW FEVER

	<u></u>									Weel	Week ended-	١,				
Place	Apr. 8- May 5, 1928	May 6- June 2, 1928	June 3-30, 1928	July 1–28, 1928	July 29-Aug. 25, 1928	Aug. 26- Sept. 22, 1928			October, 1928	1928		2	lovemb	November, 1928		Dec. 1.
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