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INFLUENZA—PREVALENCE IN THE UNITED STATES.

Influenza prevalence may be said to be approaching normal proportions again in the country as a whole. While cases continue to be reported in many States, there is reason to believe that a large proportion of the reports for the week ended March 20 are belated returns, and some cases, of course, may be expected at this season of the year. In some States, however, the prevalence of the disease is still definitely above normal, and in several of the large cities for which weekly mortality data are given in the Weekly Health Index of the Bureau of the Census the mortality rate from influenza and pneumonia was still above the seasonal normal—notably Birmingham and New Orleans.

The morbidity reports furnished by State health departments to the Public Health Service for the week ended March 20 show a continued decline in the number of cases reported except for two States. The mortality reports furnished by the Bureau of the Census show for the forty-odd large cities as a group that the excess death rate from influenza and pneumonia (all forms) declined to 9 per 100,000, practically a normal rate, as contrasted with an excess rate of 526 per 100,000 in the corresponding week of the 1918 epidemic. The excess rates for 12 weeks' period ended March 20, 1920, compared with those of the 1918 epidemic, are shown in the following table:

Table I.—Comparison of the excess 1 annual mortality rate per 100,000 from influenza and pneumonia (all forms) by weeks during the 1920 epidemic with that for corresponding weeks in the 1918 epidemic in cities included in the Weekly Health Index of the Bureau of the Census, considered as a whole.

Week ended—	Excess over corre- sponding week of median year.	Week ended—	Excess over corre- sponding week of median year.
1918. Sept. 14 21 28 Oct. 5 19 26 Nov. 2 9 16 23 30 Dec. 7 14 21 28	-6 76 326 1,028 2,557 4,592 4,695 3,332 1,832 989 620 526 617 792 801 629	1920. Jan. 3 10 17 24 31 Feb. 7 14 21 28 Mar. 6 13 20	-56 -55 -27 184 741 1,241 1,319 867 422 185 69 9

¹ Excess over the mortality rate from the same causes in corresponding week of the median year in the period 1910-1916. The weekly rates for the median year have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city, and then by reading from the curve the indicated median rate at the midpoint for each week. The excess has been found by subtracting this median rate from the actual rate for the corresponding weeks in 1918-1920.

If the curves of excess rates by weeks in the two epidemic waves be fitted together at their peaks (Oct. 26, 1912, to correspond with Feb. 14, 1920) and the ratios be computed of the 1920 rates to those for the corresponding weeks in the 1918 wave, the more abrupt decline of the 1920 epidemic is clearly shown.¹

The ratios follow:

Weekly ratio of excess annual death rate from influenza and pneumonia (all forms), Jan. 11-Mar. 20, 1920, to that of corresponding week of 1918 epidemic wave, for certain cities as a group.

Week e	Week ended—							
1918	1920	Ratio.						
Sept. 28 Oct. 5 12 19 26 Nov. 2 9 16 23 30	Jan. 17 24 31 Feb. 7 14 21 28 Mar. 6 13 20	0. 086 . 232 . 311 . 282 . 293 . 277 . 260 . 243 . 200 . 122						

As may be noted in Table II, the excess mortality rate from influenza and pneumonia (all forms) in a few cities exhibits a tendency to rise slightly. These increases can not be considered significant as yet, since they do not represent more than a very small number of deaths—not over four or five in any of the cities concerned. No definite indications of recrudescences or secondary epidemic waves are afforded at this time. It is quite probable that slight excess rates will continue in some of the cities for another two or three weeks, even if no definite secondary epidemic waves are manifested.

In computing these ratios, account has been taken of the fact that the death rates from influenza and pneumonia (all forms) immediately prior to the beginning of the present epidemic have been below "normal" (using the seasonal rate for the median year of 1910-1916 as the normal), and a provisional adjustment to the 1920 "norm" has been made by adding 55 to the annual rate (as given in Table I) for each week of the epidemic period in 1920.

Table II.—Excess of annual death rates per 100,000 from influenza and pneumonia (all forms) by weeks. Dec. 20, 1919, to Mar. 20, 1920, over that in corresponding week of median year (1910-1916), in certain large cities.

	1919: Tendo						1920	0: We	ek e n d	ed				
City.	December. January.			7.	February.					3	March	1.		
	20	27	3	10	17	24	31	7	14	21	28	6	13	20
Albany, N. Y Atlanta, Ga Baltimore, Md Birmingham, Ala Boston, Mass Buffalo, N. Y Cambridge, Mass. Chicago, III. Cincinnati, Ohio. Cleveland, Ohio. Columbins, Ohio. Dayton, Ohio. Pall River, Mass. Grand Rapids, Mich. Indianapolis, Ind. Jersey City, N. J. Kansas City, Mo Los Angeles, Calif. Louisville, Ky Lowell, Mass. Memphis, Tenn. Milwaukee, Wis. Minneapolis, Minn. Nashville, Tenn. New Ark, N. J. New Haven, Conn. New Orleans, La. New York, N. Y. Oakland, Calif. Omaha, Nebr Philadelphia, Pa Pittsburgh, Pa Providence, R. I. Richmond, Va St. Louis, Mo St. Paul, Minn. San Francisco, Calif. Syracuse, N. Y. Toledo, Ohio. Washington, D. C. Worcester, Mass.	- 41 - 9 (3) -124 - 46 - 67 - 12 - 36 - 57 - 20 - 21 (6) (2-214 (7) - 18 - 100 - 144 - 6 87 10 9	- 622 - 1222 - 1224 - 122 - 12	-106	2 2099 2-21 1-113 2-114 3-11-118 3-71 4-11-118 3-71 4-11-118 3-10-101 5-105 62 64 68 1-31 -39 -36 68 111 -41 -41 -41 -41 -41 -41 -41 -164 -222 67 -422 67 -422 67 -422 67 -422 67 -423 -31 -34 -34 -31 -34 -34 -34 -34 -34 -34 -34 -34 -34 -34	- 23 - 13 - 12 - 74 2-32 - 84 169 - 106 - 169 - 50 - 41 - 70 - 64 - 70 - 87 - 33 - 70 - 87 - 33 - 70 - 87 - 87	- 54' - 6 - 6 - 27' - 249 - 101	1,567;272; 777; 587; 755; 11,708; 19; 151; 277; 10; 1,434; 629; 431; 1,032; 431; 1,007; 163; 280; 280; 2308; 2308; 234; 431; 1,007; 434; 434; 434; 436; 280; 431; 1,007; 163; 280; 280; 280; 280; 280; 280; 280; 280	604 243 522 7711 1, 681 199 843 1, 156 1, 611 232 1, 611 1, 232 2, 11 1, 047 1, 419 2, 065 2, 11 1, 168 2, 11 1, 196 1, 198 2, 11 1, 196 1, 198 2, 198 1, 19	1313 1,338 1,338 1,058 660 497; 1,452 2,519 1,017 200 4,255 1,265 1,265 1,265 1,265 1,265 1,365 1,365 1,365 1,185	1, 457, 1, 210 1, 327, 244, 1, 329, 244, 1, 329, 244, 1, 329, 244, 1, 329, 244, 1, 329, 244, 1, 324, 1	613, 1,502, 600, 8477, 350, 350, 350, 350, 350, 350, 360, 375, 396, 375, 396, 375, 396, 375, 396, 375, 396, 375, 396, 375, 384, 1172, 280, 280, 386, 507, 822, 280, 386, 507, 822, 1,322	2233 377 - 822 - 856 637 - 291 203 262 251 262 27 262 27 216 330 312 21 1.038 27 1.007 158 377 430 361 362 - 165 - 248 131 80	139 317 138 860 9 9 152 154 83 155 143 113 113 113 113 113 114 125 120 130 147 120 168 168 168 177 177 177 168 168 168 177 177 177 168 168 168 177 177 177 177 177 177 177 17	-12e6 -13e6 -10e6 -11e7 -10e6 -11e7 -1

¹ The weekly rates for the median year in the period (1910-1916) have been approximated by plotting the rate for the median year for each month (thus affording a rough "normal" seasonal curve) for each city; and then by reading from the curve the indicated median rate at the midpoint for each week. The excess has been found by subtracting this median rate from the actual rate for each week in 1920. When the difference is "minus" it is so indicated.

2 For pneumonia only.
3 No report.
4 For influenza only.

The number of deaths from influenza and pneumonia (all forms) by weeks during the present epidemic for the cities included in the foregoing tabulation, as furnished by the vital statistics division of the Bureau of the Census, is given in the table following:

Table III.—Deaths from influenza and pneumonia (all forms) in certain large cities, by weeks, in December, 1919, and in January, February, and March, 1920.

	W	19: eek ed					192	o: Weel	k ended					
City.	Dece	mber.		January.				February.			March.			
	20	27	3	10	17	24	31	7	14	21	28	6	13	20
Albany, N. Y. Atlanta, Ga. Battimore, Md. Battimore, Md. Boston, Mass. Boston, Mass. Buffalo, N. Y. Cambridge, Mass. Chicago, Ill. Cincinnati, Ohio. Cleveland, Ohio. Columbus, Ohio. Dayton, Ohio. Dayton, Ohio. Detr'it, Mich. Pall R1'er, Mass. Grand Rapids, Mich. Indianapolis, Ind. Jersey Citv, N. J. Kansas Citv, Mo. Los Angeles, Calif. Louis'ille, Ky. Lowell, Mass. Memphis, Tenn. Milwaukee, Wis. Minneanolis, Minn. Nashville, Tenn. New Aren. New York, N. Y. Oakland, Calif. Omaha, Nebr. Phitachelphia, Pa. Pittsburgh, Pa. Portland, Oreg. Providence, R. I. Richmond, Va. Rochester, N. Y. St. Louis, Mo. St. Paul, Minn. San Francisco, Calif. Seattle, Wash. Spokane, Wash. Spokane, Wash. Spokane, D. C. Worcester, Mass.	8 21 11 7 9 8 11 162 3 6 69 31 19 10 1 5 33 8 11 7	16 16 28 9 23 17 11 11 11 11 11 11 11 11 11 11 11 11	6 1 6 300 11 24 4 98 18 28 5 7 15 (3) 3 3 3 3 12 12 18 9 9 3 15 12 19 5 7 7 20 9 9 0 6 8 8 32 5	3 1 17 200 8 107 14 21 14 21 15 4 4 21 1 13 16 6 17 6 6 27 7 6 6 27 7 218 4 4 4 5 5 5 4 7 3 1 2 2 2 1 3 7 5 7 4 4 4 9 9 9 222 10 10 10 10 10 10 10 10 10 10 10 10 10	2 1 10 35 5 1 8 28 7 7 7 1 153 12 25 5 9 9 1 16 14 14 16 11 14 14 8 8 7 7 7 5 5 3 1 8 1 3 9 7 7 41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 10 24 16 16 18 8 8 17 26 8 8 13 24 17 26 19 21 14 25 21 21 24 25 21 21 24 25 21 26 30 30 30 30 30 30 30 30 30 30	14 15 59 14 1,109 246 46 49 324 36 64 49 32 12 22 18 32 1,308 24 45 153 76 153 23 24 23 24 23 24 23 24 25 26 27 27 28 28 28 29 28 28 28 28 28 28 28 28 28 28 28 28 28	19 32 122 123 125 125 126 127 128 128 129 129 129 129 129 129 129 129 129 129	29 1 68 288 285 181 282 283 494 622 258 116 32 116 32 116 32 116 32 116 32 124 (2) 167 88 121 121 122 130 140 157 158 158 158 158 158 158 158 158	23 1 89 231 24 24 24 24 27 24 26 27 28 28 21 26 27 28 28 29 20 21 23 24 24 25 26 27 28 28 28 29 29 29 29 20 20 20 20 20 20 20 20 20 20	20 166 123 136 138 138 139 125 48 49 125 101 119 119 119 119 119 119 119	10 (7) (80 56 6 80 56 6 80 77 19 15 5 21 18 18 11 14 11 28 9 49 19 21 77 10 5 5 5 5 5 4 4 12 15 5 5 5 5 4 10 11 15 23 50	9 26 65 5 64 8 38 8 38 8 57 14 16 6 100 22 32 32 22 32 32 32 32 32 32 32 32 32	31 200 344 311 377 244 321 377 244 321 377 322 38 344 221 325 328 344 221 328 328 328 328 328 328 328 328 328 328

¹ Deaths from pneumonia (all forms) only.

· Deaths from Infidenza omy.

The number of cases of influenza in the different States, as reported to the Public Health Service by State health departments, is shown in Table IV.

No report.
Deaths from influenza only.

Table IV.—Influenza case reports. Number of cases of influenza occurring in various States as reported to the Public Health Service by State health departments.

¡States omitted are those from which no reports have been received. Blank spaces indicate that no report was received for the week. These reports are preliminary and subject to change.]

•	Cases reported week ended—											
State.	Janu	ıary.		Febr	uary.		·	March.				
	24	31	7	14	21	28	6	13	20			
labama	8	203	1,296	3,236	2,366	3,603	3,885	1,047	82			
rkansas	179	595	5,666	6,599	2,793	1,690	2,576	2,055	83			
alifornia	1,604	7,133	13,660	11,887	7,420	5,527	918	496	58			
onnecticut	1,123	4,664	5,666	4,868	2,771	1,183	571	229	12			
elaware	' 5	21	86	78	43	36	50	33	1			
istrict of Columbia	1,216	1,616	557	298	104	36	21	6				
lorida	484	1,547	1,581	1,735	1,420	1,026	580	413	29			
corgia	95	617	3,256	5,411	7,809	8,210	3,677	3,087	2,06			
laho	922	2,783	2,394	l	1				l			
linois	14,805	29, 156	30,330	23,037	7,237	3,062	1,344	453	43			
idiana	1,714	i,	7,811	7,503	3,904	2,038	1,289	1,184	41			
owa	644	3,960	5,070	1,981	869	170	86	96				
ansas	1,130	8,582	16,960	17,699	10,026	3,590	3,332	1,551	1,2			
entucky	170	878	2,536	6,067	4, 295	8,584	4,099	3,640	_,			
ouisiana	123	763	1,901	3,690	3, 153	3,363	2,541	1,982	1,04			
aine		387	936	3,942	3,702	2,134	1,130	1.105	84			
[aryland 1		00,	4,935	8,942	4,758	3, 184	2,052	1,203	74			
assachusetts	489	4,475	9,730	10, 727	5,601	2,376	1, 144	490	2			
ichigan		1,2,0	14, 201	13,470	6,672	3,831	-,		i -			
innesota.		5,775	11,397	7,555	4,213	1,447	692	406	13			
ississ i ppi		0,	3 2, 761	4,014	3,332	2,475	21,798	2,230	-			
issouri		4,043	5,359	1.696	466	2, 1.0	2,.00	2,230	1			
ontana	67	1,022	1,847	1.650	1,400	348	514	206				
ebraska	154	1,815	3,998	6,048	3,272	2,492	2,007	834	84			
ew Hampshire		382	460	701	383	488	_,					
ew Jersey	753	7, 365	9,603	5,807	2,798	1.043	764	365	17			
ew Mexico	61	260	1,576	1,166	632	204	186	97	1 :			
ew York (exclusive of New	0.	200	2,010	2,200		. =0.		1	'			
York City)	555	4,755	11,616	13,259	11,304	5,330	4,030	2,434	1,08			
ew York City	5 690	30, 456	21,388	8,091	3,030	1.069	489	381	23			
orth Carolina	0,000	3,356	12,892	25, 571	18, 439	8,398	3,800	1,605				
orth Dakota			946	497	3 178	0,000	0,000	2,000				
hio			10,479	i	1				1			
regon			1,042	1,318	1,971	2 495	2 309		!			
enneylvania		1	16,090	13,324	9,365	2 1,723						
outh Carolina		1,661	3 3, 179	3,916	2,846	1,716	971	678	52			
outh Dakota	118		5,042	4,976	3,047	1,649	495	120	26			
ennessee			2,331	2 1,432	0,011	2,020			`			
exas			11, 265	6,788	1,035	588	134	55				
tah			1,489	228	96	000	.0.					
ermont		89	272	798	1,314	1,071	481	470	15			
irginia	20	3,097	6,318	2,934	1,512	3 1,073			1			
vashington	12	902	6,451	6,426	4,596	1,559	1,260	271	g			
Vest Virginia		1.667	4,732	6,308	3 1.848	780	1,200					
isconsin		6,739	14,328	10,310	6, 274	-3,131	994	554	50			
Vyoming		1,372	11,020	20,010								
Total	34,090	142, 136	295, 433	265, 981	158 294	90,752	48,219	29,779	13,9			
umber of States reporting	25	32	43	41	40	37	32	31	10,5			

¹ Week ended Friday.

OCCUPATION IN RELATION TO TUBERCULOSIS.

By George M. Kober, M. D., LL. D., Professor of Hygiene, Georgetown University, Washington, D. C.

Health is the chief asset of the workingman, and no greater calamity can befall him than to have his earning capacity impaired or arrested by reason of sickness or disability; it means in many instances the utter financial ruin of the family, and is doubtless one of the most potent causes of poverty and distress.

² Five days only.

³ Six days only.

In the search for the causes and prevention of diseases, the interests of the wage earners have not been neglected; indeed it may be truly said that a special department has been created known as Industrial Medicine and Hygiene, with a very creditable, but by no means complete, literature of its own.

The necessity for devoting special attention to this subject was shown long ago by observations made by Hippocrates and Galen, that certain occupations and trades, even in those primitive periods, were dangerous to health. These and subsequent authors refer in their writings to occupational diseases of miners, bearers of burdens, messengers, sailors, soldiers, chemists, and professional men. The first systematic treatise on diseases of occupation was written by Prof. Bernardo Ramazzini, of Padua. His monograph, De Morbis Artificium Diatriba, published in 1700, was translated into English in 1705, and into French in 1711, and awakened a deep interest in England and France and also in Germany.

Diseases of occupation are everywhere assuming more and more importance, not only to wage earners and employers, but also to physicians, who, in order to make an early diagnosis and give the patient the full benefit of treatment, should know the conditions injurious to health under which our fellow men and women live and work. In countries and States where reports of certain occupational diseases are compulsory, it is quite possible to secure fairly reliable data as to the number of cases of specific industrial poisoning.

The same may be said of the facilities afforded by the statistics of the German industrial insurance institutes, which furnish not only the number of deaths but also the number of cases treated, together with the age period and the duration of the disease. Similar facts, together with the results of highly specialized investigations, are now being collected and published in gratifyingly increasing numbers by Federal and State Governments.¹

Such special investigations are all the more important when it is remembered that even the most complete statistics fail to reveal all the factors which influence the health and longevity of operatives. Great differences are found in the conditions under which the work is performed, some of which are entirely avoidable, while others are not, and it is hardly fair to characterize certain trades as dangerous when experience has shown that no harm results when proper safeguards have been taken. In the consideration of this question, the personal element of the workmen, their habits, mode of life, etc., can not be ignored. Many persons are engaged in occupations for which they are not physically fitted, and others ruin their health

¹ It is interesting to note that the first investigation by the Federal Government was made in Philadelphia in 1902 at the request of Hon. Carroll D. Wright, by My former student, Dr. C. F. W. Dochring. The result of his investigation in the manufacture of white lead, linoleum, fertilizers, etc., were published in 1903 in Bulletin 41, under the title of "Factory sanitation and labor protection."

by vice, dissipation, improper food, and insanitary home environments. There are also a number of occupations in which the alcohol habit prevails to an unusual extent, perhaps because of the character of the work, perhaps as the result of association, and so it would not be fair to attribute the ill health of the operatives altogether to the character of the employment. In addition to all this, there are factors, such as malaria, water and soil pollution, and especially hookworm infection, for which neither the industry, employer, nor employee is primarily to blame.

All this emphasizes the need of a thorough study of existing conditions, in order not only to determine the relative health risks, but also to formulate rules which may remove the causes or render the system better fitted to resist them. It is largely a public-health problem, and in this, as in all preventive efforts, a hearty cooperation is absolutely essential. In this instance the responsibility rests with the State, the employer, the employee, and the physician; each has certain duties to perform, and the help of all is necessary for the removal or mitigation of existing ills.

As a result of numerous independent investigations it is known today that persons habitually engaged in hard work, especially in factories and indoors, present a greater amount of sickness and a higher mortality than persons more favorably situated, and that the character of the occupation influences to a great extent not only the average expectation of life but also the prevalence of certain diseases.

Etiology of Tuberculosis.

From our knowledge of the etiology of tuberculosis, we know that while the tubercle bacilli are not ubiquitous, they are at least widely scattered and the modes of invasion are numerous, and yet there is a large proportion of those persons exposed to infection who do not develop the disease. This shows that in addition to the germ there must also be a suitable soil for the development of pathogenic effects. Such a soil is usually found in persons of feeble physique, victims of malnutrition, whose bodies have been weakened from any one or more of the numerous causes which are afloat,—a previous attack of sickness, hurry, worry, chronic fatigue, loss of sleep, vice, and dissipation, insufficient and improper food, insanitary homes, lack of pure air, etc.

Clinical experience indicates that faulty nutrition, debility, loss of blood, anemia, mental anxiety, diabetes, whooping cough, measles, alcoholism, and many other diseases favor the development of tuberculosis.

¹ The influence of an inadequate food supply is shown by the fact that the mortality rate from tuberculosis in Germany is as high now as it was in the early eighties, all the gains having been wiped out because of lack of sufficient food, and the consequent diminished resisting power of the system.

We also know that a predisposition may be inherited, as evidenced by a delicate physique, narrow chest, and general vulnerability of the tissues.

A vulnerability of the tissues may also be acquired by indoor life and dusty occupations, especially when the work involves exposure to dampness, extremes of heat and cold, sudden changes in temperature, and last but not least, exposure to industrial poisons.

Danger of Indoor Life and Occupations,

I am not disposed to overrate the dangers of indoor life and occu-Indeed there may be no danger at all so far as the air is concerned, if steps have been taken for the removal of impure and the introduction of pure air. If, however, these precautions are neglected, there is every reason to assume that the habitual inhalation of air vitiated by dust, the products of respiration, combustion, and decomposition, and by the possible presence of toxic fumes and gases, plays an important rôle in the causation of respiratory diseases. the injurious effects are intensified when human beings are obliged to occupy rooms with an air supply insufficient for the proper oxygenation of the blood, and also when, because of inadequate floor space, contact infections are more frequent. As a result of these adverse conditions we note an undue prevalence of consumption, pneumonia, and septic sore throat in crowded workshops, dwellings, prisons, and, formerly, also in military barracks and on battleships. The influence of overcrowding on disease of the air passages, amounting at times to epidemics, was well illustrated on the Isthmus of Panama and, as suggested by Gen. Gorgas, accounts probably for the undue prevalence of the diseases among the gold miners of the Transvaal. By moving the laborers on the Isthmus from large crowded barracks into single huts and rooms with not less than 50 square feet of floor space, the pneumonia rate was reduced in one year from 18.4 to 2 per 1.000.

Other bad effects in many indoor occupations result because the work is often performed by the worker while in a stooped position. The effects of such conditions of work are especially harmful to youthful workers whose osseous system is not fully developed. Among the more important harmful results should be mentioned the hollow chest and round, stooped shoulders, as seen in tailors, engravers, lithographers, jewelers, watchmakers, metal grinders, shoemakers, and all others obliged to assume a more or less bent-over position.

All thoracic postural deformities naturally interfere with free expansion of the lungs and, hence, with the respiratory functions, and also cause constipation, congestion of the portal circulation, and hemorrhoids. Many of the deformities, it is true, have been acquired

in the school, but they should be remedied in the workshop by adjustable seats, prompt correction of faulty positions, and well-regulated gymnastic exercises, especially of opposing groups of muscles.

The latest occupational mortality statistics for the United States for 1909 show that the mortality from tuberculosis in agricultural pursuits was 8.7 per cent; among bookkeepers and accountants, 22.5 per cent; and in servants and waiters, 27.4 per cent. If we stop right here the evidence would be overwhelming in favor of outdoor employment. But when we find that the tuberculosis mortality in Government officials and bankers is less than 8.7 per cent, and that for draymen, hackmen, and teamsters it is 23.4 per cent, it becomes apparent that in estimating the hazards of indoor occupations, other factors, such as physique, habits, exposure to dust, social conditions, and standards of living, must be considered.

Dusty Occupations.

Hoffman ¹ estimates that of the 44,130,000 American wage earners of both sexes, approximately 4,000,000 work under conditions more or less detrimental to health, on account of the presence of an excess of atmospheric impurities predisposing to or accelerating the relative frequency of tuberculous and nontuberculous respiratory diseases, and he submits the following table:²

	Mal	es.	Females.		
Trade group.	Number.	Per cent.	Number.	Per cent.	
Metallic dust. Mineral dust. Mineral industries Vegetable fiber dust. Animal and mixed fiber dust. Organic dust. Mixed organic and inorganic (public) dusts.	514,693 844,897 336,323 183,937	7.6 15.8 25.9 10.3 5.6 16.3 18.2	33, 255 15, 332 550 296, 135 149, 262 177, 545 1, 399	4.9 2.3 .1 44.0 22.2 26.4	
Total	3, 264, 500	100.0	673, 478	100.0	

The dust which we inhale is, fortunately, largely arrested in the upper air passages, especially in the nostrils, and in case of mouth breathers also in the buccal cavity. In an ordinary way the dust arrested in the nose, unless ejected by sneezing, mixes with the mucus, and after reaching the throat, also with the saliva, and is unconsciously swallowed. Only a small amount of the dust actually reaches the lungs. Saito,³ working in Lehmanns's Laboratory, located from 4 to 24 per cent of the total amount of white-lead dust in the respiratory organs, and the remainder in the digestive tract.

¹ Hoffman, Frederick L., Mortality from Respiratory Diseases in Dusty Trades: U. S. Department of Labor, Bureau of Labor Statistics, No. 231, June, 1918. On pages 46-50, the lists of occupations representing the various dusty-trade groups are given, and offer material for serious reflection.

² Compiled from the report of the Bureau of the Census on occupational statistics, 1910.

² Saito Yoichiro Dr., Experimentelle Untersuchungen über die quantitative Absorption von Staub; Arch. f. Hyg., München u. Leipz. Bd. LXXV.

Nature has provided numerous safeguards to prevent the lodgment of dust in the lungs (such as sneezing, coughing) and in the ciliated epithelial cells of the trachea; but when as a result of long-continued exposure this protective influence is diminished or ceases, dust will reach the air vesicles and produce mischief.

In Laborde's experiments with guinea pigs exposed to the inhalation of fine white-lead dust, the animals died within two hours. In the lungs were found intense congestion and ecchymoses. When the exposure was less intense and the animals lived longer, similar but less profound vascular changes were found in the lungs, pointing to direct irritation from the dust. Under ordinary circumstances and with limited quantities of soluble dust, the epthelial motile cells endeavor to protect the lungs once more by taking up the fine dust particles. and transporting them through the lymphatics into the bronchial glands. When, however, the amount of dust is beyond their capacity, or its character is of a certain nature, it acts as a foreign body, causing an irritation, which is followed by a catarrh and the more serious chronic reactive inflammations of the respiratory organs so common among persons engaged in dusty occupations. The chronic inflammatory conditions thus produced are generally known as "pulmonary fibrosis."

The degree of injury to the respiratory organs depends upon the character of the individual particles of dust and their chemical composition. It is generally admitted that the sharp, angular, and nonabsorbable particles of metallic and also of mineral dust, especially dust containing silica, are much more apt to produce an intensive irritation, and even actual abrasions, than organic dust; hence it is reasonable to assume that they may thus favor invasion of bacilli or lighting up inactive lesions.

It is also doubtless true, as pointed out by Collis, that dusts are more injurious if they differ in their chemical composition from the elements of which the body is normally composed. This may account for the fact that lime dust, in spite of its angular form, and plaster of Paris, with its more or less acute angles, and also cement dust, are comparatively innocuous.

Nieszytka² reports that while 76.5 per cent of all the deaths among the sandstone workers in Hanover are caused by tuberculosis, according to Grab's statistics, tuberculosis in limestone workers is the cause of death in only 7.5 per cent of the total mortality.

Koelsch³ confirms Grab's statistics with reference to the lime and cement industry, and adduces evidence to show that among 400 workers in a German plaster of Paris establishment, no cases of tuberculosis occurred during a period of 17 years, and that of 40,824 deaths

¹Collis, International Med. Congress, London, 1913.

⁴Nieszytka: Vrtljschr. f. gerichtl. Med., Berl. 1912. XLIII supp. Heft 1, 2, p. 143.

Koelsch: Krankheit u. Sociale Lage. Erst. Leipz. u. München.

from tuberculosis, analyzed by Fisac, in Spain, only 17, or 0.41 per cent, occurred in lime or gypsum workers. Selkirk, of our own country, was also unable to find a single case of phthisis among lime workers, nor could he learn of any worker in lime kilns having died from this disease.

It is generally admitted that only the finest particles of dust, regardless of its source, gain access to the lungs, and that the volume of dust and intensity and duration of exposure play an important rôle in the degree of injury inflicted.

Municipal dust.—I have analyzed the original tabulation by the Prudential Insurance Co. of America based upon its industrial experience from 1907 to 1912, and find that 10,567 deaths occurred in individuals exposed to municipal dust. This group includes street cleaners, drivers, draymen, teamsters, coachmen, street-car conductors and street-car motormen. The proportionate mortality from consumption is 23.8 per cent, and from other respiratory diseases, 11.8 per cent, at ages of 15 or over. But when we find that the mortality from consumption in the street cleaners is only 12.9 per cent compared with 25 per cent in street-car conductors and motormen, and 33 per cent in coachmen, we are forced to the conclusion that other factors besides the element of dust have to be considered.

General organic dust.—In the same study we find that 5,694 deaths occurred in workers exposed to general organic dust. This group includes bakers, candy makers, flour millers, glove makers, harńess makers, belt and pocketbook makers, shoe-factory workers, tannery finishers, button makers, eigar makers, tobacco workers, comb makers, and grain handlers. The proportionate mortality from pulmonary tuberculosis is 24.9 per cent and from other respiratory diseases 11.3 per cent. Here again we have reason to inquire how to account for the difference between 23.3 per cent in bakers and 37.2 in tannery finishers, or 36.1 per cent in eigar makers.

Vegetable fiber dust.—Another study deals with 1,120 deceased workers at ages of 15 and over, who were exposed to the inhalation of vegetable fiber dust. This group includes furniture finishers and sanders, woodwork finishers, cotton spinners, knitting-mill employees, lace, linen, flax, and other weavers, paper cutters and rope makers. The proportionate mortality from pulmonary tuberculosis is 29.1 per cent and from other respiratory diseases 11.1 per cent. Here again we observe great differences in the percentage of 22.1 from consumption in knitting-mill employees, against 49.2 per cent in lace weavers.

Animal and mixed fiber dust.—Study No. 4 deals with 1,276 deceased workers who were exposed to animal and mixed fiber dust. The occupations included in this group are hatters, upholsterers,

carpet weavers and workers, silk weavers, woolen-mill employees, fur workers and mattress workers. The proportionate mortality from pulmonary tuberculosis is 29.1 per cent and from other respiratory diseases 11.1 per cent, exactly the same as for vegetable-fiber dust.

Mineral dust.—Study No. 5 refers to 3,734 deceased workers who were exposed to mineral dust. The occupations included are potters, tile makers, glass blowers and cutters, marble and stone cleaners, cutters and polishers, core makers, molders, lapidaries, lithographers, paper hangers, and plasterers.

The proportionate mortality from pulmonary tuberculosis is 25.9 per cent and from other respiratory diseases 14 per cent. It is important to note that the percentage of deaths from pulmonary tuberculosis, contrary to expectations, is 3.2 per cent less than in the two preceding groups, which were exposed to vegetable dust, and animal and mixed fiber dust, although the percentage of deaths from other respiratory diseases is 3 per cent greater than in all other groups.

Metallic dust.—Study No. 6 refers to 3,374 deceased workers, who were exposed to metallic dust. The occupations included are grinders, polishers, cutlery, file and tool workers, brass molders and finishers, gold beaters, jewelers, gold and silver polishers, type founders, engravers, printers, and pressmen. The proportionate mortality from pulmonary tuberculosis in this group is 30.3 per cent and from other respiratory diseases 11.1 per cent.

Recapitulation.

		Proportionate mortality from		
Dust exposed to.	workers.	Pulmonary tubercu- losis.		
Metallic dust Animal and mixed fiber dust Vegetable fiber dust Mineral dust. General organic dust. Municipal dust.	3,374 1,276 1,120 3,734 5,694 10,567	Per cent. 30.3 29.1 29.1 25.9 24.9 23.8	Per cent. 11. 1 11. 1 11. 1 14. 0 11. 3 11. 8	

The foregoing data undoubtedly point to the fact that exposure to all kinds of dust plays a very important rôle in the causation of respiratory diseases. Dust containing crystalline silica, such as quartz, quartzite (ganister, buhr-stone), flint, sandstone, carborundum, and emery is perhaps the most frequent cause of the more acute forms of fibrosis. It is possible that even in what is commonly called metallic dust the siliceous particles from grinding and polishing implements, are, with the possible exception of the red oxide of iron, chiefly

responsible for the cases of siderosis. All other kinds of dust, however, may, and doubtless frequently do, produce a milder grade of pneumoconiosis and fibrosis.

Whether or not the lesions thus produced may eventuate in pulmonary tuberculosis depends probably upon a number of factors, the most important of which is the presence of tubercle bacilli. Watkins-Pitchford cited by Landis¹ found tubercle bacilli in 15.2 per cent of samples of sputa collected underground in the Transvaal gold mines, as against 2.5 per cent of sputa collected in the homes and places of resort of the workers. Similar investigations in other industries may bring us nearer the truth; but after all, the danger from droplet infection, the common drinking cup, including the whisky flask, which formerly in the spirit of good fellowship was not infrequently passed from mouth to mouth, and the question of massive infection can not be underrated.

In the light of our knowledge concerning infection in early childhood, it is perfectly conceivable that the germs of tuberculosis may remain dormant because of the formation of fibroid tissue, and that the same factors which determine the development of an acute or chronic form of tuberculosis and the reactivation in apparently arrested cases of pulmonary tuberculosis have to be considered. Many of the general predisposing causes calculated to diminish the general power of resistance and thus create a suitable soil for the development of the disease have already been alluded to. Personally, I am convinced that exposure to dust alone does not account for the undue prevalence of tuberculosis in certain occupations, and that every factor which undermines the general health of the individual is at least of equal if not greater importance in determining the course of the disease. I have therefore arranged in the following tables the percentage distribution of pulmonary tuberculosis in certain occupations in an ascending scale and not according to exposure to the different varieties of dust. I will make such comments as I am able to offer as to the possible influence of physique, standards of living, and the effects of alcohol, lead, mercury, and other industrial poisons.

¹ Landis, H. R. M., Jour. of Ind. Hyg., July, 1919, p. 125.

Table I.—Occupational mortality statistics; per cent distribution, with special reference to tuberculosis.

Occupations.	Number of deaths.	Tuber- culosis.	Pneu- monia.	Other respira- tory diseases.	Heart diseases.	Diseases of digestive system.
All occupations: Male. Female.	210, 507 27, 459	Per cent. 14.8 21.0	Per cent. 8.0 7.0	Per cent. 2.2 2.2	Per cent. 11.9 10.3	Per cent. 2.8
Lumbermen and raftsmen. Coal miners ¹ . Bankers. Manufacturers and officials. Farmers, planters, and overseers. Physicians and surgeons Clergymen Steam-rail employees. Lawyers. Farmers, planters, and overseers ² . Officials, Government. Agricultural pursuits:	1,557 712 2,805 34,662 1,421 1,216	5.6 5.8 5.9 6.3 6.6 6.6 6.6 7.0 7.5 7.9 8.6	6.3 10.4 10.8 7.2 6.6 7.4 7.1 4.3 7.9 6.9 7.3	.6 1.1 1.0 2.0 2.1 1.8 2.0 1.1 1.9 1.1	9.6 12.1 13.2 16.3 12.7	2. 2 3. 5 3. 5 3. 5 3. 5 1. 3 3. 1 4. 0 3. 0
Agricultural pursuits: Females. Males Foremen and overseers. Watchmen, police, and firemen Miners and quarrymen. Hotel keepers Gardeners, florists, and nurserymen. Farmers and farm laborers¹. Stock raisers, herders, and drovers Merchants and dealers (except wholesale).	50, 844 745 2, 355 5, 663 765	8.6 8.7 8.7 8.8 9.3 9.3 9.7 9.8	6.8 7.1 6.8 7.9 8.2 6.8 9.1 6.2 6.8 7.0	3.1 2.2 2.3 2.1 4.3 1.7 3.6	15. 1 15. 1 11. 3 14. 6 7. 1 11. 2 14. 7 16. 5 12. 0 13. 1	4. (3. ; 2. (2.) 2. (4. 2 3. (3.)

Metropolitan Life Insurance Experience, 1911-1913.
 Prudential Industrial Insurance Experience.

Table I deals with 21 occupations. The percentage of deaths from tuberculosis ranges from 5.6 in lumbermen and raftsmen to 9.9 in merchants and dealers. The percentage of 5.8 in coal miners, based upon the experience of the Metropolitan Insurance Co. in 1,557 deaths, is quite low as compared with 9.7 per cent given by the Prudential Co. in 3,658 deaths, and 9.2 per cent as given by Hayhurst based upon 5,428 deaths among Illinois soft-coal miners from 1912 to 1918.

Dr. Hayhurst in his excellent discussion of the subject invites attention to the fact that the marked excess in deaths due to violence in mining operation nullifies to a large extent any comparison possible between the other causes of deaths. When, in the case of miners, he omitted violence as a cause of death and then compared the purely medical causes (with suicide included), he found the percentage of deaths from tuberculosis to be 14.6.

Dr. William H. Davis, the chief statistician for vital statistics of the United States Bureau of Census, cautioned me at the outset of these studies that a proper interpretation of mortality percentage figures by age and occupation can only be made by constantly keeping in mind the normal death rates of the various occupations and ages. For example, a low percentage from tuberculosis may not

¹ Hayhurst, Emery R., The Health Hazards and Mortality Statistics of Coal Mining in Illinois and Ohio: Jour. of Ind. Hyg., November, 1919.

13.8

 $12.3 \\ 15.3$

11.8

12.6

13.0

12.6

1.0

2.5

4.4

9.6

2,9

2.5 2. 2 2. 3

2.5

2.8

mean an actually lower rate from this disease, but may mean that there is an unusually high rate from accidents or some other cause. The violence percentage in steam-railway employees was 53.6, and in lumbermen and raftsmen 29.9; and this accounts for their remarkably low percentage of deaths from tuberculosis in this table, and also for the low percentage in miners and quarrymen.

This table shows, however, quite clearly that tuberculosis is infrequent in occupations involving out-door life combined with muscular activity; but it also shows that it is infrequent in the liberal professions, among bankers, officials, hotel keepers, and shop keepers, presumably because of higher standards of living.

Occupations.	Number of deaths.	Tuber- culosis.	Pneu- monia.	Other respira- tory diseases.	Heart diseases.	Diseases of digestive system.
Commercial travelers. Carpenters and joiners. Puddlers! Agonts. Boatmen and sailors. Cabinet makers. Nurses and midwives.	7,883 251 2,625	Per cent. 10.0 10.1 10.4 10.4 10.9	Per cent. 5.2 7.1 6.2 7.7 7.4 5.5 7.8	Per cent. 1. 2 2. 0 1. 0 1. 7 2. 9 1. 6	Per cent. 9.8 14.4 16.5 13.0 10.0 12.3 11.4	Per cent. 3. 9 2. 7 2. 8 1. 6 3. 0 3. 6
Railway track and yard workers 2	1,932	11.1	6.4	1.3	12.0	3.0

2, 456 9, 214 88, 151

1,065 2,399

13, 214

9.17

12.0

12.0

12.6

13.4

13.7 13.7

13.9

13.9

14.0 14.5

5.5 7.8 6.4 8.0 7.3 6.0

7.7 8.5

 $\frac{8.9}{7.6}$

12. 6

8. 2 5. 1

8.4

Railway track and yard workers 2.

Blacksmiths.

Professional service, male.

Engineers and firemen, not locomotive . . .

Boot and shoe makers and repairers.....

Janitors and sextons.....

Railway engineers and trainmen 1.....

Agricultural laborers.....

Tron-ore miners.....

Housewives and housekeepers 2 . . .

Masons, brick and stone ...

Coopers.

Table II.—Occupational mortality statistics, per cent distribution.

Table II deals with 19 occupations. The percentage of deaths from tuberculosis ranges from 10 in commercial travelers to 14.5 in agricultural laborers. The percentage in the latter group appears' high when compared with 8.7 per cent in 50,844 persons engaged in other agricultural pursuits, unless accounted for by lower standards of living. It is rather remarkable that the percentage of tuberculosis in carpenters and cabinetmakers, exposed as they are to a mixture of vegetable and mineral dust in sandpapering, should be about the same as that in commercial travelers. We note, however, that the percentage of deaths from digestive diseases in the latter group is quite high, possibly indicating a lower state of nutrition. centages in all the other occupations enumerated in this table are below 14.8, which is the average for all occupations, in spite of the fact that a number of them are dusty trades.

Prudential Industrial Insurance Experience.
 Metropolitan Life Insurance Experience, 1911–1913.

TABLE III	-Occupational	mortality	statistics,	per cent	distribution.

					1	Б.
Occupations.	Number of deaths.	Tuber- culosis.	Pneu- monia.	Other respira- tory	Heart diseases.	Diseases of digestive
				diseases.		system.
		Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
Feachers and professors (college, male)	587	15.0	5.6	1.7	12.6	4.3
Saloon keepers	973	15.5	8.5	1.6	7.3	2.9
Manufacturers, mechanical pursuits	63,880	15. 5	7.9	2.4	11.4	2.6
Salesmen		15.8	7.6	1.0	11.5	2.8
Butchers	1,503	16.2	8.3	1.2	12.0	2.8
Iron and steel workers	2,838	16.3	10.8	1.5	10.0	2. 5
Trade and transport workers	44,941	16.6	7.3	1.6	10.2	2.
Plasterers 1	977	16.7				
Bakers	952	18.2	8.6	1.9	10.8	2. 3
Hucksters and peddlers	799	18.3	9.5	2.1	10.8	2.4
Machinists	3,317	18.3	7.9	1.9	11.1	2.
Domesticservants and laundresses (female)	1,091	18.5	8.7	2.6	11.5	3.1
Domestics, personal service (female)	17,735	18.7	7.5	2.3	10.6	3.
Street-railway employees	697	18.9	6.2	1.3	6.3	1
Painters, glazers, and varnishers	3,720	18.9		1.7	10.6	2.
Tin-plate and tinware workers	681	18.9	8.2	2.5	11.6	2.
Tailors	2,408	19.0	7.7	3.5	10.5	3.0
Dressmakers		19.2	7.0	1.3	11.7	2.
Servants and waitresses	14,930	19.5	7.3	2.3	10.4	3.
Professional service (female)		19.7	6.9	1.8	8.8	3.
Domestic and personal service (male)	41,624	19.7	10.2	2.2	10.4	2.
Laborers, not specified	29,345	19.9	11.0	2.4	10.1	2. 8
<u> </u>	1				1	i

¹ Prudential Industrial Insurance Experience, 1911-1913.

Table III includes 22 occupations. The percentage of deaths from tuberculosis varies from 15 in college professors and teachers to 19.9 in day laborers. The percentage in female college professors and teachers is 21.5. Both are usually recruited from weak stock, and the high percentage of diseases of the digestive organs in both sexes is indicative of a low state of nutrition. The rates suggest the need of improvement in personal hygiene and the sanitation of classrooms. The percentage in saloon keepers is 15.5, as compared with 9.3 in hotel keepers, and 26 per cent in innkeepers and bartenders. The conclusion seems irresistible that chronic alcoholism plays an important rôle in the latter group. Butchers and steel workers have about the same percentage in tuberculosis, but the steel workers have a higher pneumonia rate. Butchers have a high venereal rate and are often alcoholic. In painters and tinware workers the element of chronic lead poisoning should be considered. The percentage of deaths from tuberculosis in tailors and dressmakers is almost the same. Exposure to a mixture of vegetable and animal dust and a postural influence may be discerned, since finishers (among males) show the greatest percentage of faulty postures. The rates for servants and laborers are above the average and are doubtless influenced by exposure to dust and also by alcohol.

6.2

6.9

6.1

24.1

 $24.2 \\ 24.3$

1.4 1.0

2.4 1.7

10.7

10.2

10. 1

4.5

Other Diseases. Number Tuber-Heart Pneurespiraof Occupations. culosis. monia. diseases. digestive deaths. diseases. system. Per cent. 20.5 20.6 Per cent. 2.7 13.9 Per cent. Per cent. Per cent. 112 0.9 Engravers 1... 12. 2 Hostlers. 21.1 22.0 21.5 21.9 Cotton-mill operatives..... 686 6.9 2.0 3.5 2,390 5.9 8.0 10.7 3.5 ,170 1.6 8.4 10.7 722 6.1 ,646 ,740 509 13.1 2. 2 2. 5 2. 2 2. 5 1. 3 22. 5 23. 4 23. 4 23. 9 Bookkeepers and accountants. 1.5 6.1 12.5 Musicians and teachers of music..... Draymen, hackmen, and teamsters... 1. 9 1. 7 6.8 9.2 11.0 5,791 9. 6

Table IV.—Occupational mortality statistics, per cent distribution.

1,398

695

982

3,152

Table IV includes 15 occupations with a percentage of deaths varying from 20.5 in engravers to 25 per cent in machinists. Steel engravers are exposed to mercury, electricians to lead and mercury, and painters and machinists (in certain processes) to lead. In the case of textile workers, bookkeepers, accountants, teachers, musicians, and tobacco workers it is fair to assume that the majority are recruited from feeble stock, as shown by very high rates before the completion of the twenty-fifth year. In some of these industries, notably in the textile mills and tobacco factories, special investigations should be made as to the character of dust and whether or not tubercle bacilli are found. Heucke 1 claims to have found 0.56 per cent of nicotine in the dust of different tobacco establishments.

Barbers and hairdressers are frequently exposed to droplet infection and also to inhalation of fine hair. The percentage of deaths from tuberculosis in hostlers is 20.6 and from pneumonia 13.9, as compared with 9.8 and 6.8 in stock raisers, herders, and drovers. the pneumonia rate among cavalry troops is quite generally in excess of other arms of the service, it occurred to me during my Army experience that the inhalation of the peculiar character of dust given off during the grooming of horses might be a factor in this increased susceptibility. The high rates in draymen, hackmen, and teamsters are usually attributed to exposure to weather without opportunity for active exercise; they have, however, also a high rate for alcohol-In Great Britain the percentage in private coachmen is much lower, probably because of better habits and living conditions. molders have a high rate of alcoholism and are more or less exposed to dust and also to carbon monoxide.

Barbers and hairdressers.....

Electricians.....

Seamstresses

Prudential Industrial Insurance Experience.
 Metropolitan Life Insurance Experience, 1911-1913.

¹Cited by Stephani. Weyls Handb. der Arbeiterkrankheiten. Jena, 1908, pp. 634-635.

Occupations.	Number of deaths.	Tuber- culosis.	Pneu- monia.	Other respira- tory diseases.	Heart diseases.	Diseases of digestive system.
Saloon keepers and bartenders 1	2,190	Per cent. 26.0	Per cent. 8.7	Per cent.	Per cent. 8.3	Per cent.
(female)	4,582 3,017	27.4 27.6	6.1 8.0	1.3 1.8	10.3 10.3	2.9 2.4
Dressmakers and garment workers ¹ Bartenders	2,172 1,115	27.8 27.9	5.7 11.0	1.6	12.6 8.3	
Teamsters, drivers, and chauffeurs ¹ Clerks and copyists Porters and helpers in stores	7,384	28. 2 28. 3 28. 3	8.5 7.3 11.7	1.6 2.3	9.7 8.6 10.8	2.1 2.3
Marble and stone cutters	822	2 28. 6	27.9	3 4. 2	10.0	1.0
Plumbers, gas and steam fitters Printers, lithographers, and pressmen		29. 2 29. 2	8.7 7.5	1.6 1.6	9.3 9.0	2.6 2.2
Longshoremen and stevedores 1.		29. 2	8.3	1.0	12.6	

Table V.—Occupational mortality statistics, per cent distribution.

Table V includes 12 occupations, and the percentage of deaths from tuberculosis varies from 26 in saloon keepers and bartenders to 29.2 in longshoremen and stevedores. In both of these widely differing occupations, as also in teamsters, drivers, and chauffeurs, the influence of alcohol is apparent. My impression is that chauffeurs, if placed in a separate class, would probably show a lower percentage, as they are usually men of good stock and habits. are, however, frequently exposed to carbon-monoxide poisoning.

The high percentage of 27.6 in male servants and waiters, against a percentage of 19.5 in female servants and waitresses, may be accounted for by the percentage of alcoholism, which was 0.2 in females and 1.8 in male servants. Females on the other hand, have a much higher rate from tuberculosis than males in the manufacturing and mechanical pursuits, or those engaged as bookkeepers and accountants, clerks and copyists, and garment workers. The high percentage in porters and helpers in stores may, in part, be accounted for by exposure to a mixed variety of dust, and possibly infected Their rate for alcoholism is, however, far above the average. The high percentage in marble and stone cutters is doubtless influenced by exposure to mineral dust.

The percentage of tuberculosis in plumbers, gas and steam fitters, and in the printing industry are exactly the same. The influence of a subtle form of lead poisoning is apparent in both occupations, but appears to be more pronounced in plumbers. While it is true that many men of feeble stock enter the printing trades, the same can not be said of plumbers, gas and steam fitters. Alcoholism is charged with a percentage of 1.1 in printers, and 0.9 in plumbers.

Metropolitan Life Insurance Experience 1911-1913.
 Prudential Industrial Insurance Experience 1909-1913. (Reduces in 1914-1918 to 23.5 per cent, 7 per cent and 2.3 per cent.)

Occupations.	Number of deaths.	Tuber- culosis.	Pneu- monia.	Other respiratory diseases.	Heart diseases.	Diseases of digestive system.
Trade and transportation (female)	201 844 242	Per cent. 30.9 31.8 31.9 35.5 38.7 42.4	Per cent. 5.4 9.0 6.2 12.9 4.1 3.9 3.6	Per cent. 1.5 2.0 1.2	Per cent. 7.7 6.4 12.9 8.8 7.7 8.1	Per cent. 3.7 3.6

Prudential Industrial Insurance Experience.
 Metropolitan Life Insurance Experience, 1911-1913.

Table VI includes 7 occupations; and the percentage of deaths from tuberculosis varies from 30.9 in females engaged in trade and transportation (as compared with 16.6 in males) to 42.4 in female clerks, bookkeepers, and office assistants (as compared with 22.5 in men). Lead and mixed mineral and metallic dust doubtless play a rôle in the mortality in brass workers, metal polishers and buffers. The percentage from tuberculosis in female textile workers is 35.5 against 21.1 in males. The percentage in clerks and saleswomen is 38.7 (as compared with 15.8 per cent in salesmen). The questions of physique, race, and nationality, and many other factors doubtless influence these differences.

Table VII.—Percentage of deaths from tuberculosis in certain occupations, based upon the industrial experience of the Prudential Insurance Co. of America, 1907–1912.

Furnace tenders in steel works 62 6.5 Weavers 557	Occupations.	Total deaths.	Tubercu- losis.	Occupations.	Total deaths.	Tubercu- losis.
Miscellaneous employment in steel plants 68 20.6 Stonecutters 616 Cement-lime workers 222 20.7 Copper miners 611 Laborers in iron-steel plants 2,788 22.5 Jewelers 325 Iron-steel workers 1,341 22.6 Spinners 361 Street car employees 1,088 25.7 Poishers and grinders (iron and stee) 144 Stove mounters and grinders 27.9 Sheffield metal grinders 2,640 Core makers 357 29.4 Brass workers 95 Glass workers 336 30.9 Poishers and finishers in brass 137 Gold-leaf beaters 53 32.0 brass 143 Pressmen 224 32.6 Lead and zinc ore miners 62 Cachmen 337 33.1 Lace workers 96 Cappet weavers 101 32.7 Lead and zinc ore miners 96 Cappet weavers 101 32.7 Lace workers 31 Upholsterers 400 <td>Furnace tenders in steel works. Coal miners. Street cleaners. Brick and tile makers. Slaters. Quarry workers Blacksmiths! Heaters in steel plants. Rollers. Miscellaneous employment in steel plants. Cement-lime workers Knitting-mill employees. Laborers in iron-steel plants. Iron-steel workers. Street car employees. Stove mounters and grinders. Draymen and teamsters. Core makers. Artificial-flower makers (male) Glass workers. Gold-leaf beaters. Pressmen. Carpet weavers. Coachmen. Upholsterers. Painters. Shoe-factory employees.</td> <td>62 3,658 197 133 93 149 1,273 5 112 68 2222 103 2,788 1,341 1,088 9,799 357 13 336 53 3224 101 337 400</td> <td>Per cent. 6.5 9.7 12.9 12.0 13.7 14.8 15.7 17.9 20.6 20.7 22.1 22.5 22.6 25.7 27.9 29.4 30.8 30.9 32.0 32.6 32.7 33.1 33.6 34.1 34.5</td> <td>Weavers. Cigar makers Cigar makers Cilass blowers. Printers. Hatters. Glass cutters. Tanners. Polishers and grinders (iron and steel). Stonecutters. Copper miners. Lithographers Granite-stone cutters Jewelers. Spinners. Polishers and grinders (iron and steel). Sheffield metal grinders. Brass workers. Silk weavers. Polishers and finishers in brass. Tile makers. Lead and zinc ore miners. Lace workers. Slate-pencils workers Slate-pencils workers Slate-pencils workers Filint knappers and buhrstone</td> <td>197 1,733 220 192 136 616 611 325 204 361 144 138 2,640 95 137 143 62 96 31</td> <td>losis. Per cent. 34.7 36.1 36.3 36.6 37.3 36.6 37.9 38.3 39.2 42.3 42.5 42.9 43.0 43.7 44.5 45.2 45.3 49.0 49.2 64.2 77.8</td>	Furnace tenders in steel works. Coal miners. Street cleaners. Brick and tile makers. Slaters. Quarry workers Blacksmiths! Heaters in steel plants. Rollers. Miscellaneous employment in steel plants. Cement-lime workers Knitting-mill employees. Laborers in iron-steel plants. Iron-steel workers. Street car employees. Stove mounters and grinders. Draymen and teamsters. Core makers. Artificial-flower makers (male) Glass workers. Gold-leaf beaters. Pressmen. Carpet weavers. Coachmen. Upholsterers. Painters. Shoe-factory employees.	62 3,658 197 133 93 149 1,273 5 112 68 2222 103 2,788 1,341 1,088 9,799 357 13 336 53 3224 101 337 400	Per cent. 6.5 9.7 12.9 12.0 13.7 14.8 15.7 17.9 20.6 20.7 22.1 22.5 22.6 25.7 27.9 29.4 30.8 30.9 32.0 32.6 32.7 33.1 33.6 34.1 34.5	Weavers. Cigar makers Cigar makers Cilass blowers. Printers. Hatters. Glass cutters. Tanners. Polishers and grinders (iron and steel). Stonecutters. Copper miners. Lithographers Granite-stone cutters Jewelers. Spinners. Polishers and grinders (iron and steel). Sheffield metal grinders. Brass workers. Silk weavers. Polishers and finishers in brass. Tile makers. Lead and zinc ore miners. Lace workers. Slate-pencils workers Slate-pencils workers Slate-pencils workers Filint knappers and buhrstone	197 1,733 220 192 136 616 611 325 204 361 144 138 2,640 95 137 143 62 96 31	losis. Per cent. 34.7 36.1 36.3 36.6 37.3 36.6 37.9 38.3 39.2 42.3 42.5 42.9 43.0 43.7 44.5 45.2 45.3 49.0 49.2 64.2 77.8

¹ Metropolitan Life Ins. Co.

² German and English (Hoffman).

Table VII covers 52 industries or occupations, which, because not specifically enumerated in the foregoing tables or because of differences in percentage, are here presented. With few exceptions the data are based upon the experience of the Prudential Insurance Co. or collected by Dr. F. L. Hoffman.¹

Many of these occupations have already been commented upon. The low figures for furnace tenders in steel plants may be due to a more rapid labor turnover. Puddlers are recruited from a very sturdy stock. Coremakers are exposed not only to dust, but also to carbon monoxide from open wood or coke fires or red-hot cast-iron stoves. Artificial flower makers were formerly exposed to lead and arsenite of copper; aniline colors have replaced to a great extent the latter coloring agent. Gold-leaf workers have also, in Europe, a very high mortality rate from respiratory diseases. It is possible that the copper and zinc contained in the alloy may exert a toxic effect. Carpet weavers, upholsterers, weavers, hatters, tanners, spinners, silk weavers and lace workers show a mortality percentage which is double and, in some instances, more than treble, the average for all occupations. The rate for tanners is unusually high, as the occupation calls for strength and endurance. The handling of the dry hides involves inhalation of more or less dust of an animal and inorganic origin, and fragments of hair. In certain of the tanning and dressing processes there is exposure to disulphide of arsenic, chromates, lead, benzine, and amyl acetate. The rate for hatters is also very high, and can not be wholly attributed to the volume or the character of the dust; indeed some of the processes are carried on in a dust-free atmosphere. It has been held for some time that the chief danger in this industry is exposure to the inhalation of nitrate of mercury which is employed in the carrotting process, and which, in the opinion of Dr. Legge,2 forms an insoluble compound with the keratine in the hair and is not removed in the subsequent process of the felt-hat industry. The men who make the solution and those who apply it are exposed not only to mercurial, but also to nitrous, fumes, and all others engaged in certain dusty processes are exposed to the inhalation of dust impregnated with particles of nitrate of mercury. The stovers, who handle the hard felt shapers at a temperature of 180° F. in the drying department are exposed not only to mercurial vapors, but also in some establishments to the fumes of wood alcohol, employed in the shellacking process to stiffen the hats, which doubtless exerts a toxic effect on the system. There is also danger in some establishments from arsenical poisoning, since, according to Heinzerling and Lewin, the fleshy part of hare and rabbit skins is not infrequently treated with a soap containing arsenite of potassium or sodium.

¹ Hoffman, Frederick L., Mortality from Respiratory Diseases in Dusty Trades: Bull. U. S. Bureau of Labor Statistics, No. 231. June, 1918.

² Legge, Thomas M. Oliver's Dangerous Trades.

Cited by Schütte. Weyl's Handb. der Arbeiterkrankheiten, Jena, 1908, p. 386.

The excessive rates in glass workers, potters, file makers, and brass workers are likewise influenced not only by the character of the dust, but by exposure to lead. The rates for copper miners, and lead and zinc ore miners are also very high. This may be due to the high percentage of crystalline silica content in the dust of some of the mining districts; but since the percentage of deaths is very much lower in gold quartz miners, we strongly suspect that lead and copper may exert a toxic effect on the system in this class of miners.

The percentage for slate-pencil workers is exceedingly high. They are quoted by Hoffman from Sommerfeld and apply to a class of workers whose physical and social economic conditions are notoriously low; one-third of the workers were children below the age of 14. The mortality from tuberculosis is also high for slate workers in Wales. A British commission found that pure slate dust was rarely met with, but as a rule the dust included a considerable proportion of minute particles of adherent quartz.

The percentage of tuberculosis in lace workers is very high; in Great Britain it is somewhat below the average. It is quite possible that the dust inhaled during the making of linen lace is more injurious, because Greenhow, as early as 1865, has shown that flax dust contains silica. Excessive heat and humidity are injurious factors in some of the departments, and according to Arlidge, exposure to coal gas from gas-heated stoves in the process of "gauffering" is not infrequent. There is likewise danger from lead poisoning in workers in lace and silk weighted with lead acetate.

Table VIII.—Average age at death, by occupation.1

TABLE VIII.—Average age at aeath, by occupation.	
MALE.	Averag e age at death.
Bookkeepers and office assistants	36. 5
Enginemen and trainmen (railway)	37. 4
Plumbers, gas fitters, and steam fitters.	
Compositors and printers	40. 2
Teamsters, drivers, and chauffeurs	42. 2
Saloon keepers and bartenders	42.6
Machinists	
Longshoremen and stevedores	
Textile-mill workers.	
Iron molders	
Painters, paper hangers, and varnishers	
Cigar makers and tobacco workers	
Bakers	
Railway track and yard workers.	50. 7
Coal miners.	51. 3
Laborers	52. 8
Masons and bricklayers.	55. 0
Blacksmiths	
Farmers and farm laborers.	58. 5
All occupations	47. 9

¹ Based upon the Experience of the Metropolitan Insurance Co. Industrial Department, 1911-1913, by Statistician Louis I. Dublin, Ph. D.

FEMALE.	Average age at death.
Clerks, bookkeepers, and office assistants	26. 1
Store clerks and saleswomen.	28.0
Textile-mill workers	33. 9
Dressmakers and garment workers	42. 0
Domestic servants.	49. 1
Housewives and housekeepers	53. 3
•	
All specified occupations	51.1

Fortunately, the effects of legislation and factory sanitation, together with the gospel of personal hygiene and higher standards of living conditions, which have been emphasized in the educational campaign against the great white plague, are strikingly shown by a most marked decrease in the mortality from tuberculosis in 8 of the so-called dangerous trades in the State of New Jersey.

Dr. F. S. Crum, assistant statistician of the Prudential Insurance Co., has kindly furnished me with data relating to occupations in the State of New Jersey. The table shows that the percentage of mortality from tuberculosis in hatters has been reduced from 29.7 in the period of 1909–1913 to 23.6 in the period of 1914–1918; the pneumonia rate during the same period has been reduced from 8.5 to 7, and other respiratory diseases from 4.9 to 2.3. In stone cutters the percentage of deaths from tuberculosis during the same period has been reduced from 26.3 to 19.7; in metal grinders, from 39.2 to 29.1; in molders, founders, and casters, from 19.7 to 17.4; in other iron and steel workers, from 24 to 17.2, and in plumbers, from 32.5 to 22.6. There was no decrease in the textile industry, the rate in the period 1909–1913 being 21.3, and in 1914–1918 21.7 per cent.

In potters there was an increase in the percentage of tuberculosis from 32.4 (1907–1913) to 36.6 during the period from 1914–1918. This increase, fortunately, does not indicate an increased hazard, for by reference to the tables it will be noted that there was a distinct decrease at ages between 10 and 39, showing that the protective measures are really effective in all newcomers, but that they could not avert the damage inflicted in the older workers before the adoption of the present safeguards.

Table IX.—Proportionate mortality in specified industries from tuberculosis of the lungs, New Jersey, 1909–1918.

HATTERS.

		1909-1913			1914-	-1918	
	Deaths	from—		Deaths	from		Don
Ages.	All causes (A).	Tuber- culosis of the lungs (B).	Percentage, (B) of (A).	All causes (A).	Tuber- culosis of the lungs (B).	Percentage, (B) of (A).	Per cent increase or decrease.
10-19. 20-29. 30-39. 40-49. 50-59. 60 and over.	3 44 69 117 102 150	2 28 49 42 16 7	66. 7 63. 6 71. 0 35. 9 15. 7 4. 7	27 65 74 84 88 134	8 22 23 27 28 3	29. 6 33. 8 31. 1 32. 1 31. 8 2. 2	- 55.6 - 46.9 - 56.2 - 10.6 +102.5 - 53.2
Total (ages 10 and over)	485	144	29. 7	472	111	23. 5	- 20.9
	TEX	TILE IN	DUSTRI	ES.			
10-19. 20-29. 30-39. 40-49. 50-59. 60 and over.	75 183 159 189 161 298	31 84 48 36 20 8	41. 3 45. 9 30. 2 19. 0 12. 4 2. 7	85 226 245 209 223 550	23 76 89 52 34 12	27. 1 33. 6 36. 3 24. 9 15. 2 3. 6	$\begin{array}{r} -34.4 \\ -26.8 \\ +20.2 \\ +31.1 \\ +22.6 \\ +33.3 \end{array}$
Total (ages 10 and over)	1,065	227	21.3	1,518	286	21. 7	+ 1.9
	M	ETAL GI	RINDERS				1
10-19. 20-29. 30-39. 40-49. 50-59. 60 and over.	4 23 39 44 21 22	14 19 19 5 3	60. 9 48. 7 43. 2 23. 8 13. 6	4 39 66 53 55 44	14 29 17 13 3	35. 9 43. 9 32. 1 23. 6 6. 8	-41. 1 - 9. 9 -25. 7 - 0. 8 -50. 0
Total (ages 10 and over)	153	60	39. 2	261	76	29. 1	-25.8
мо	LDERS, 1	FOUNDE	RS, AND	CASTER	.s.	1	
10-19. 20-29. 30-39. 40-49. 50-59. 60 and over.	4 42 57 65 56 90	1 16 21 11 8 5	25. 0 38. 1 36. 8 16. 9 14. 3 5. 6	4 45 83 101 99 110	14 18 21 15 9	31. 1 21. 7 20. 8 15. 2 8. 2	$ \begin{array}{r} -100.0 \\ -18.4 \\ -41.0 \\ +23.1 \\ +5.3 \\ +46.4 \end{array} $
Total (ages 10 and over)	314	62	19.7	442	77	17. 4	- 11.7
		STONECU	TTERS.				
10-19. 20-29. 30-39. 40-49. 50-59. 60 and over.	2 6 29 39 67 67	2 13 13 19 3	33. 3 44. 8 33. 3 40. 4 4. 5	4 17 19 44 51 93	3 5 11 17 9	17. 6 26. 3 25. 0 33. 3 9. 7	- 47.1 - 41.3 - 24.9 - 17.6 +115.6
				!			

Table IX.—Proportionate mortality in specified industries from tuberculosis of the lungs, New Jersey, 1909-1918—Continued.

POTTERS.

		1909–1913			1914–1918				
	Deaths	from—		Deaths	from-				
Ages.	All causes (A).	Tuber-culosis of the lungs (B).	Per- centage, (B) of (A).	All causes (A).	Tuber- culosis of the lungs (B).	Percentage, (B) of (A).	Per cent increase or decrease.		
10-19 20-29 30-39 40-49 50-59 60 and over	10 50 69 108 71 75	5 22 39 33 20 5	50. 0 44. 0 56. 5 30. 6 28. 2 6. 7	7 47 72 104 105 72	1 19 32 47 31 19	14. 3 40. 4 44. 4 45. 2 29. 5 26. 4	- 71.4 - 8.5 - 21.4 + 47.4 + 294.6		
Total (ages 10 and over)	383	124	32. 4	407	149	36. 6	+ 13.0		
_	IRON A	ND STE	EL WOR	KERS.					
10-19 20-29 30-39 40-49 50-59 60 and over.	35 148 264 242 220 264	7 65 102 67 29 11	20. 0 43. 9 38. 6 27. 7 13. 2 4. 2	20 210 209 268 234 287	3 51 69 63 26 15	15. 0 24. 3 23. 1 23. 5 11. 1 5. 2	-25.0 -44.0 -40.0 -15.0 -15.0 +23.8		
Total (agos 10 and (vol)	1,1.0			1,010	221	11.2	-28.0		
		PLUMI	BERS.						
10-19. 20-29 20-29 30-39 40-49 50-59 60 and over.	14 99 135 118 59 70	1 51 55 35 11 8	7. 1 51. 5 40. 7 29. 7 18. 6 11. 4	28 162 195 178 123 115	36 54 48 36 3	14. 3 22. 2 27. 7 27. 0 29. 3 2. 6	+101.4 - 56.9 - 31.9 - 9.1 + 57.5 - 77.2		
Total (ages 10 and over)	495	161	32. 5	801	181	22. 6	- 30.		

It is less than 15 years since attention has been paid to industrial hygiene in this country; but in view of what has been accomplished during that brief period, I venture to predict that no country will make greater progress in social and industrial betterment than our own beloved United States.

In the meantime no opportunity should be lost in the general campaign to emphasize the importance of personal hygiene and general sanitation; for be it remembered that every movement which makes for better health and a temperate, untainted, and virile race, will offer the best safeguard in the prevention of tuberculosis. When we supply our children with healthful school rooms and teach them the value of pure air, sanitary homes, proper and sufficient food, physical culture, baths and suitable clothing, and the importance of pure, clean lives, the lessons taught will be applied in the homes and workshops of the Nation.

MUNICIPAL NARCOTIC DISPENSARIES.

By S. Dana Hubbard, New York City Department of Health.

The Department of Health of the City of New York opened a dispensary for drug addicts on April 10, 1919, immediately following the arrest by internal revenue agents of certain physicians and druggists who had been supplying narcotic drugs. The reason for opening this "clinic," as it was called, was the fear of consequences that might result from the sudden shutting off of the source of supply of the many addicts who had been obtaining drugs from the arrested persons and from others in the same business who had suspended operations because of being frightened by these arrests.

Details of the operation of this "clinic," with classified statistics of the addicts attending it, have been published from time to time in the weekly bulletins of the department of health, and a full résumé of the 10 months' period of operation appeared in the department's monthly bulletin for February, 1920.

In the present article, space does not permit a recapitulation, but only such a statement of facts as is necessary to make clear the basis for the conclusions reached.

The officials of the department at the date of opening the "clinic" were not familiar with the facts of drug addiction, and haste was considered imperative, so the plan adopted was more or less arbitrary. Cocain, heroin, and morphin were dispensed on the day of opening in quantities not exceeding 15 grains. On the second day the dispensing of cocain was permanently discontinued, and heroin and morphin were thereafter the only drugs dispensed.

All applicants were examined by physicians of the department of health, and the drugs were dispensed only on prescriptions of these physicians. Duly licensed and registered pharmacists were in charge of the dispensing.

A policy of cutting down the daily supply at the rate of ½ grain every other day was early adopted, the reduction to continue until the minimum amount was reached which was considered necessary by the physicians to prevent undue suffering. This amount was found to be from 2 or 3 to 5 grains for the 24 hours.

The drugs were sold to the addicts at cost, no charge being made for the physicians' services.

As soon as possible a hospital was opened for withdrawal treatment, and those willing to go were sent to this hospital—the Riverside Hospital at North Brother Island—a special staff of physicians and nurses being selected for this undertaking. Here the addicts were kept for from 5 to 6 weeks at the expense of the city; the drug was withdrawn during the first 5 days, and hyoscin was administered for 3 days thereafter. Out of over 7,400 drug addicts attending the "clinic," less than 2,000 were willing to go to the hospital. A system

of registration was adopted, and cards were issued bearing the name, address, and other identifying particulars, together with a photograph of the addict and the official seal of the department of health. The addict was given a number, together with "dosage sheets," upon which was entered each day the amount and kind of drug received.

A study of the operation of the system outlined above has convinced the officials of the department that a dispensary in which narcotic drugs are given to addicts for self-administration is not the right way to deal with this problem, and by the time this article is printed, the New York "clinic" will have been permanently closed.

Among the facts observed were the following: Addicts often obtained more of the drug than they needed and sold the excess to other addicts or peddlers; addicts supplemented their supplies by purchase from peddlers; addicts got friends or relatives, who were not addicted, to register and attend the "clinic" in order to obtain additional supplies, and in some cases, it is stated, these friends became addicted in this way; prescriptions were forged or raised, dosage sheets were tampered with, false dosage sheets were manufactured and sold, registration cards were bought and sold, etc.

With but a very few possible exceptions, no cures are known to have been effected by means of the reduction system as used at this "clinic." So far as known, all the cases sent to the hospital were cured, in the sense that the drug withdrawal left no physical need or craving; but quite a number of these cases relapsed after discharge, some returning to the "clinic" under assumed names.

The conclusions reached from observation of the practical working of the dispensary system are that the ambulatory treatment, whether practiced by private physicians or by public authorities, is vicious in principle and in effect; that the institutional withdrawal of the drug is so simple, easy, prompt, and effective—and comparatively without any danger, there not having been a single fatality—that there is no need for prolonging addiction by a continued supply of narcotics; that the average addict will not voluntarily submit to institutional or other withdrawal treatment so long as he or she can obtain a supply of the drug, but will go to a hospital if unable to get more of the drug.

Some of the arguments that have been advanced in favor of dispensaries may be stated in the form of questions, and answered as follows:

Does a dispensary help to get rid of peddlers?

If a dispensary issues to all-comers all the drug they desire, it may, by competition, put the peddlers out of business. In that case there would not be much to choose between the evil and the alleged remedy. If it does not supply the drugs ad libitum it encourages the traffic of peddlers by keeping up the demand.

Does a dispensary tend to prevent petty crime by addicts?

The answer is much the same as that to the previous question. A jeweler could prevent burglars from breaking into his store by opening it to them and asking them to help themselves to his stock. The surest and quickest way to prevent crimes arising from an addict's craving for his drug is to cure the addict and thus remove the craving.

Does a dispensary gradually decrease the number of addicts?

It tends to increase the number; reasons are clearly shown in the text how this is effected.

Is a dispensary necessary to prevent death or terrible suffering of addicts bereft of supply of drug?

Death does not result from sudden deprivation of the drug in the case of a healthy addict—an addict without any therapeutic reason for addiction, as a case of cancer, painful tic, etc., naturally not being included in our consideration as all of these cases are under either suitable institutional or private physicians' care.

The suffering caused by the sudden deprivation is not as severe as it may appear on the surface, and it is of short duration.

If hospital facilities can be provided, there is no excuse for a public or private narcotic dispensary. If they can not, it might be desirable to make arrangements for personal administration of drugs to addicts as a temporary measure of relief. A dispensary where the drugs are dispensed to the addicts for self-administration is so harmful in its effects that it can not be recommended under any circumstances.

DEATHS DURING WEEK ENDED MAR. 13, 1920.

[From the "Weekly Health Index," Mar. 16, 1920, issued by the Bureau of the Census, Department of Commerce.]

Deaths from all causes in certain large cities of the United States during the week ended Mar. 13, 1920, infant mortality (per cent), annual death rates, and comparison with corresponding week of preceding years.

	Population	Week en 13, 1	ded Mar. 920.	Average		Per cent of deaths under 1 year.		
City.	July 1, 1918, esti- mated.	Total deaths.	Death rate.1	an deat	nual h rate 1,000.2	Week ended Mar. 13, 1920.	yea	vious ar or ars.2
Albany, N. Y Atlanta, Ga Baltimore, Md Birmingham, Ala Boston, Mass Buffalo, N. Y Cambridge, Mass Chicago, Ill. Cincinnati, Ohio. Cleveland, Ohio. Cleveland, Ohio. Dayton, Ohio Dayton, Ohio Denver, Colo. Detroit, Mich Fall River, Mass. Grand Rapids, Mich Indianapolis, Ind Jersey City, N. J Kansas City, Mo. Los Anceles, Calif Louisville, Ky Lowell, Mass. Memphis, Tenn Milwaukee, Wis Minneapolis, Minn Nashville, Tenn New Ark, N. J New Haven, Conn New Orleans, La New York, N. Y Oakland, Calif Omaha, Nebr Philadelphia, Pa Pittsburgh, Pa Portland, Oreg, Providence, R. I Richmond, Va Rochester, N. Y St. Louis, Mo St. Paul, Minn San Francisco, Calif. Seettle, Wash	225, 296 130, 655 128, 392 135, 450 290, 389 318, 770 313, 785 658, 495 4234, 891 109, 081 453, 481 183, 442 119, 215 428, 684 154, 865 382, 273 214, 206 180, 264 1, 761, 371 593, 303	46 73 277 90 250 174 30 30 364 130 242 79 41 67 318 39 39 96 105 105 106 60 102 64 211 1,676 60 102 64 211 1,676 67 70 48 67 70 48 67 70 48 67 70 68 69 60 70 60 70 70 70 70 70 70 70 70 70 7	21.3 18.9 21.6 19.2 14.0 15.3 16.9 15.6 18.3 16.4 15.7 17.2 17.4 15.2 17.4 10.8 13.1 26.2 24.4 21.5 28.8 17.0 19.9 20.3 14.6 21.1 17.5 16.8	CCAAAACAACCCCC	23.6 15.5 17.9 14.8 16.4 17.5 20.3 15.3 15.3 15.3 11.9 11.9 23.8 23.8 23.2 15.7 21.0 21.0 21.0 21.0 21.0 21.0 21.4 21.4 17.2	6. 5 15. 11. 19 15. 6 23. 0 16. 7 17. 3 19. 6 23. 0 16. 7 7. 6 12. 2 16. 4 16. 4 16. 4 16. 4 16. 4 16. 4 16. 16. 0 11. 0 11. 0 0 11. 0 0 15. 0 16. 5 10. 0 16. 2 25. 7 0 11. 6 6 10. 8 12. 4 10. 9 12. 0 12. 4 10. 9 12. 0 16. 3 12. 4 10. 9 12. 0 16. 3 17. 0 16. 3 17. 0 17.	CCAAAACAACCCCC : CCCCCCACACACCCCCACAC(3)CCCCCCCCCA	13.7.15.00 13.7.15.00 13.7.20 13.7.20 14.3.3 18.1.12.3 18.1.15.6 16.7.7 11.4.18.3 19.4.11.7 22.8.11.6 11.6.3 22.8.11.6 11.6.3 22.8.11.6 11.6.3 20.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0
Syracuse, N. Y. Toledo, Ohio. Washington, D. C. Worcester, Mass.	4 243, 109 4 437, 414	49 83 135 68	15. 8 17. 8 16. 1 20. 4	C A A C	17.1 16.4 19.4 16.5	20. 4 12. 0 8. 1 11. 8	C A C	22.6 13.7 9.9 18.2

Summary of information received by telegraph from industrial insurance companies for week ended Mar. 13, 1920.

Policies in force	41, 997, 632
Number of death claims	13,276
Death claims per 1,000 policies in force, annual rate	16. 5

¹ Annual rates per 1,000 estimated population.
2 "A" indicates data for the corresponding week of the years 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1917.
3 Population estimated as of July 1, 1919.
4 1920 enumeration, subject to revision.
5 Data are based on statistics of 1915, 1916, and 1917.

PREVALENCE OF DISEASE.

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

UNITED STATES.

CURRENT STATE SUMMARIES.

Telegraphic Reports for Week Ended Mar. 20, 1920.

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

ALABAMA.	Cases.	CONNECTICUT—continued.	Cases.
Chicken pox		Influenza:	
Diphtheria		Fairfield County	16
Influenza		Hartford County	
Malaria.		Middlesex County	
Measles.		New Haven County	
Mumps.		New London County	1
Pneumonia (all forms)		Windham County	2
Scarlet fever.	•	Lethargic encephalitis	
	-	Measles:	•
Smallpox		Fairfield County—	
Whooping cough		Danbury	7
whooping cough	. 10	Stamford	
ARKANSAS.		Hartford County—Hartford	
Chicken pox	. 43		10
Diphtheria		Litchfield County—	
Influenza		Norfolk	
Malaria		Winchester	22
Measles.		New Haven County—	_
Ophthalmia neonatorum		Ansonia	
Pellagra		s New Haven	
Pneumonia.	-	Orange	
Scarlet fever		Waterbury	10
	•	New London County—	
Smallpox		New London	65
Trachoma	-	Stonington	7
Tuberculosis		Scattering	45
Whooping cough	. 6	Mumps	11
CALIFORNIA.		Pneumonia	25
		Poliomyelitis-Orange	1
Cerebrospinal meningitis:		Scarlet fever:	
San Francisco		Hartford County—	
Influenza	. 582	Hartford	11
Lethargic encephalitis:		New Britain	9
San Francisco	. 1	New Haven County-Waterbury	30
Smallpox:		Scattering	49
Corona		Septic sore throat	1
Scattering	. 32	Tuberculosis	33
Typhoid fever	. 4	Typhoid fever	1
0.0373777.0004.03700		Whooping cough	50
CONNECTICUT.		i i nooping oougin	
Cerebrospinal meningitis:		DELAWARE.	
Hartford	. 1	Chicken pox	3
New London	. 1	Diphtheria	7
Chicken pox	. 40	Influenza	13
Diphtheria		Measles	121
German measles.		Mumps.	1
		75)	-

(775)

DELAWARE—continued.	_	Indiana.	
Pneumonia	Cases.	Cerebrospinal meningitis:	Cases.
Scarlet fever.		Jay County	1
Tuberculosis		Marion County	1
Whooping cough	. 2	Diphtheria: Lake County	10
FLORIDA.		Marion County	7
		Scattering	14
Cerebrespinal meningitis		Influenza	412
Diphtheria		Measles:	
Influenza		Marion County Scattering	234
Malaria		Scarlet fever:	371
Pneumonia		Elkhart County	19
Scarlet fever		Scattering	134
Smallpox		Smallpox:	
Typhola level	. 0	Howard County	28
GEORGIA.		Scattering	126
Cerebrospinal memingitis	. 1	Typhoid fever	6
Chicken pox		IOWA.	
Conjunctivities (acute infectious)	. 1	Cerebrospinal meningitis:	
Diphtheria		Ankeny	1 8
Dysentery (bacillary)		Influenza:	•
German measles		Davis County	11
Influenza		Scattering	11
Malaria		Measles	8
Measles	. 37	Pneumonia	2
Mumps	. 10	Scarlet fever:	7
Pneumonia		Carroll County	9
Scarlet fever		Scattering	32
Smallpox.		Smallpox:	
Tubercolosis (pulmonary)		Butler County	8
Typhoid fever		Colfax	9
Whooping cough	. 42	Davenport	19
ILLINOIS.		Scattering	60 1
		KANSAS.	-
Cerebrospinal meningitis:		Diphtheria	33
Quincy	. 1	Influenza	1, 290
Diphtheria: Chicago	. 169	Scarlet fever	95
Scattering		Smallpox	114
Influenza:		LOUISIANA.	
Chicago		Diphtheria	8
Scattering	. 267	Influenza	•
Lethargic encephalitis:		Proumonts	
	0	Pneumonia. Scarlet fever.	31 12
Chicago		Scarlet fever	
			12
ChicagoRobinson	. 2	Scarlet fever	12 59
Chicago	316	Scarlet fever	12 59 3
Chicago Robinson. Pneumonia: Chicago Scattering. Scarlet fever:	316 21	Scarlet fever. Small pox. Typhoid fever. MAINE. Chicken pox. Diphtheria.	12 59 3
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago.	. 2 . 316 . 21	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza:	12 59 3 11 5
Chicago Robinson Pneumonia: Chicago Scattering Scarlet fever: Chicago Rockford	316 21 330	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover.	12 59 3 11 5
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago.	316 21 330 11 13	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza:	12 59 3 11 5
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock Scattering. Smallpox:	316 21 330 11 13 89	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick Dixmont Ellsworth	12 59 3 11 5 25 33
Chicago Robinson Pneumonia: Chicago Scattering Scarlet fever: Chicago Rockford Woodstock Scattering Smallpox: Benton	316 21 330 11 13 89	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick Dixmont. Ellsworth. Gray.	12 59 3 11 5 25 33 40 17 61
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock. Scattering. Smallpox: Benton. Chicago.	316 21 330 11 13 89	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick Dixmont Ellsworth. Gray. Marshall.	12 59 3 11 5 25 33 40 17 61 25
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock Scattering. Smallpox: Benton. Chicago. Galesburg.	316 21 330 11 13 89 8 8	Scarlet fever. Small pox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick Dixmont Ellsworth Gray. Marshall Phillips	12 59 3 11 5 25 33 40 17 61 25 52
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock. Scattering. Smallpox: Benton. Chicago. Galesburg. Scattering.	316 21 330 11 13 89 8 8	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick. Dixmont. Ellsworth. Gray. Marshall Phillips. Vinal Haven	12 59 3 11 5 25 33 40 17 61 25 52 17
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock Scattering. Smallpox: Benton. Chicago. Galesburg.	316 21 330 11 13 89 89 8 5	Scarlet fever. Small pox. Typhoid fever. MAINE. Chicken pox. Diphtheria. Influenza: Andover. Brunswick Dixmont Ellsworth Gray. Marshall Phillips	12 59 3 11 5 25 33 40 17 61 25 52
Chicago. Robinson. Pneumonia: Chicago. Scattering. Scarlet fever: Chicago. Rockford. Woodstock Scattering. Smallpox: Benton. Chicago. Galesburg. Scattering. Typhoid fever:	316 21 330 11 13 89 8 5 10 36	Scarlet fever. Smallpox. Typhoid fever. MAINE. Chicken pox. Diphtheria Influenza: Andover. Brunswick Dixmont. Ellsworth. Gray. Marshall. Phillips Vinal Haven Yarmouth. York.	12 59 3 11 5 25 33 40 17 61 25 52 17 46

MAINE—continued,		NEBRASKA—continued.	
Measles:	Cases.		C
South Berwick		Benkelman	Cases. 7
Scattering		Chappell	
Mumps		Fremont	
Pneumonia		Lincoln	
Scarlet fever		Maxwell	
Smallpox		Omaha	
Tuberculosis		Oshkosh	
Typhoid fever		Scattering	
Whooping cough	. 19	Mumps	10
MARYLAND.1		Scarlet fever:	
Chicken pox		Omaha	19
Diphtheria		Scattering	40
Influenza		Septic sore throat	2
Lethargic encephalitis		Smallpox:	
Mcasles		Chappell	18
Mumps.		Cheyenne County	9
Ophthalmia neonatorum		Lincoln	26
Pneumonia (all forms)		Merrick County	10
Septic sore throat		Nuckolls County	7
Smallpox		York	11
Trachoma.		Scattering	15 67
Tuberculosis		Tuberculosis.	1
Typhoid fever		Whooping cough.	10
Whooping cough		NEW JERSEY.	-0
		······	
MASSACHUSETTS.		Influenza.	171
Actinomycosis		Pneumonia	169
Cerebrospinal meningitis		Essex County—Belleville	2.00
Chicken pox.		_	² 20
Conjunctivitis (suppurative)		NEW MEXICO.	
Diphtheria		Chicken pox	3
DysenteryGerman measles		Conjunctivitis	1
Influenza		Diphtheria	7
Malaria.		Measles	18
Measles.		Mumps.	17
Mumps		Scarlet fever	17
Ophthalmia neonatorum		Smallpox	1 8
Pneumonia (lobar)	105	Trachoma	3
Poliomyelitis		Tuberculosis	31
Scarlet fever	280	Whooping cough	1
Septic sore throat			_
Trachoma		NEW YORK.	
Tuberculosis (all forms)		(Exclusive of New York City.)	
Whooping cough	244	Cerebrospinal meningitis:	
MINNESOTA.		Albany	1
Smallpox:		Johnson	1
Blue Earth County—Beaufort Township.		Diphtheria	180
Scattering	18	Measles.	920
MONTANA.		Pneumonia	366
Diphtheria	14	Scarlet fever.	208
Influenza	82	Smallpox:	-00
Pneumonia		Fort Covington	9
Scarlet fever		Scattering	9
Smallpox	19	Typhoid fever	8
NEBRASKA.		Whooping cough	318
		NORTH CAROLINA.	
Cerebrospinal meningitis:			•
Guide Rock		Chielen per	3
Chicken pox.		Chicken pox	73
Diphtheria	11	German measles	22 2
Influenza	849	Measles	53
¹ Week ended Friday.	2.0)	² Including delayed reports.	30
- week ended friday.		- merdding delayed reports.	

NORTH CAROLINA—continued.	1	VIRGINIA.	
Ophthalmia neonatorum	ses.	Smallpox:	Cases.
Pneumonia (all forms)	111	Lee County, several cases.	
Scarlet fever.	21	WASHINGTON.	
Septic sore throat	1	Chicken pox	. 58
Smallpox	113	Diphtheria	
Typhoid fever	1 104	Influenza	
Whooping cough	103	Measles	
OHIO.		Mumps	
Scarlet fever: Akron	125	Pneumonia	
Cincinnati	88	Scarlet fever	
Smallpox:	-	SmallpoxTuberculosis	
Akron	9	Typhoid fever	. 2
Bucyrus	11	Whooping cough	. 57
Urbana	12		
SOUTH CAROLINA.		WEST VIRGINIA.	
Influenza:		Diphtheria	. 11
Abbeville	172	Measles:	
Aiken	11	Wheeling	
Chesterfield	18	Scattering	
Horry	9 10	Scarlet fever.	. 11
Lexington	34	Smallpox:	•
Newberry	1	Bluefield	
Orangeburg	268	ScatteringTyphoid fever—Bluefield	
Pneumonia:		2 y paositi to to a Diagnosta	
Abbeville	3	WISCONSIN.	
Horry	2	Milwaukee:	
SOUTH DAKOTA.		Cerebrospinal meningitis	
Chicken pox	6	Chicken pox	
Diphtheria	4	Diphtheria	. 18
Measles	89	Measles Scarlet fever	
Pneumonia	10 61	Smallpox.	
Scarlet fever	19	Tuberculosis	
Tuberculosis	1	Whooping cough	
Whooping cough	5	Scattering:	
VERMONT.	-	Chickenpox	. 27
Chicken pox	27	Diphtheria	
Diphtheria	1	Influenza	
Influenza	158	Measles	. 338
Measles	98	Scarlet fever	
Mumps	77	Smallpox	
Pneumonia	22 13	Tuberculosis	
Scarlet fever	13	Trachoma Typhoid fever	
Whooping cough	22	Whooping cough	
			. 10
Kentucky Report for	· We	ek Ended Mar. 13, 1920.	
Cerebrospinal meningitis:	ases.	Influenza—Continued.	Cases.
Hopkins County	1	Knox County	. 116
Jefferson County	1	Livingston County	
Chancroid	4	Logan County	
Chicken pox	30	McLean County	. 99
Diphtheria	16	Nelson County	
Dysentery	1	Woodford County	
Erysipelas	1	Scattering	. 1,503
Influenza:	24	Boyle County	. 12
Adair County	185	Caldwell County	
Bell County	162	Campbell County	
Fleming County	145	Fleming County	
Green County	111	Hopkins County	. 12
Harrison County	130	Kenton County	. 45
Henry County	108	McCracken County	. 19

Kentucky Report for Week Ended Mar. 13, 1920—Continued.

Measles—Continued.	Cases.	Pneumonia-Continued.	Cases.
Muhlenburg County	15	Simpson County	. 13
Simpson County	15	Scattering	
Todd County		Scarlet fever:	
Scattering	58	Jefferson County	. 13
Mumps		Kenton County	. 8
Ophthalmia neonatorum	1	Scattering	
Pneumonia:		Septic sore throat	
Adair County	12	Smallpox:	
Christian County	7	Graves County	. 7
Clay County	7	Scattering	. 62
Hardin County		Syphilis	. 15
Jefferson County		Tonsillitis	
Knox County	8	Trachoma	. 8
Lawrence County	22	Tuberculosis	. 32
Livingston County	8	Typhoid fever	. 2
Logan County		Whooping cough	. 30
Rockeastle County			

SUMMARY OF CASES REPORTED MONTHLY, BY STATES.

Tables showing, by counties, the reported cases of cerebrospinal meningitis, influenza, malaria, pellagra, poliomyelitis, smallpox, and typhoid fever are published under the names of these diseases. (See names of these and other diseases in the table of contents.)

The following monthly State reports include only those which were received during the current week. These reports appear each week as received.

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
FEBRUARY, 1920. Arizona	5 4	12 14 17 49 38 211 564 16 1,816	800 244 5,762 12,117 11,474 22,234 38,138 3,771 75,828 32,157	30 23 1	10 355 98 115 197 1,267 2,736 181 11,231	4 3 1 1	1 1 1 1 1 3	17 17 18 41 3 417 694 45 1,376 205	19 4 21 232 23 24 339 68 21 280	6 23 30 19 16 25 9 50 40

ANTHRAX.

Delaware and New York-February, 1920.

During February, 1920, one case of anthrax was reported in Delaware and three cases were reported in New York.

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CEREBROSPINAL MENINGITIS.

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Louisiana: Calcasieu Parish Lafayette Parish Orleans Parish Vermilion Parish Total Maryland: Paltimore. New York: Albany County— Cohoes Cayuga County— Aurora. Erie County— Buffalo. Montgomery County— Amsterdam New York City.	1 5 4 1 1 1	New York—Continued. Ulster County— Kingston Westchester County— Port Chester. Mamaroneck (town) Total West Virginia: Braxton County. Fayette County. Gilmer County. Harrison County. Preston County Total	1 40 1 1 1 1 1

City Reports for Week Ended Mar. 6, 1920.

Place. Baltimore, Md. Birmingham, Ala Butte, Mont. Charlotte, N. C. Chicago, Ill. Cleveland, Ohio Dallas, Tex.	1 1 2 1	Deaths. 2 1 1 1 1	Place. Minneapolis, Minn. Newark, N. J. New Pedford, Mass. New Brunswick, N. J. New Haven, Conn. New Orleans, La Redlands, Calif.	1 1 1 1 2	Deaths.
Detroit, Mich. Fall River, Mass. Fort Wayne, Ind. Huntington, W. Va. Huhaa, N. Y. Lynn, Mass. Marion, Ohio	1 1 1	2 1 1	San Francisco, Calif. Savannah, Ga Trenton, N. J. West New York, N. J. Wheeling, W. Va Wichita, Kans.	1 1 1	1 1 1 1

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 775; Monthly summaries by States, p. 779; and Weekly reports from cities, p. 792.

INFLUENZA. Maryland Report for February, 1920.

Place	New cases reported.	Place.	New cases reported.
Maryland: Baltimore. Allegany County— Cumberland. Westernport. Frostburg. Rural districts. Anne Arundel County— Annapolis. Rural districts Baltimore County— Rural districts Fort Howard Calvert County— Rural districts Fort Howard Calvert County— Rural districts. Caroline County— Rural districts.	1,183 176 101 526 198 433 1,076 7	Maryland—Continued. Carroll County— Westminster Rural districts Cecil County— Elkton Rural districts Charles County— Rural districts Jorchester County— Cambridge Rural districts Frederick County— Frederick Brunswiek Rural districts	187 258 15 167 112 135 30

INFLUENZA—Continued. Maryland Report for February, 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
Maryland—Continued. Garrett County— Rural districts. Harford County— Havre de Grace Rural districts. Howard County— Rural districts. Kent County— Rural districts. Montgomery County— Rural districts. Prince Georges County— Hyattsville. Laurel Rural districts. Fort Washington Queen Annes County— Rural districts. St. Marys County— Rural districts. Fort Washington Rural districts. St. Marys County— Rural districts.	748 391 93 831 4 51 345 4	Maryland—Continued. Somerset County— Crisfield Rural districts Talbot County— Easton. Rural districts Washington County— Hagerstown. Rural districts Wicomico County— Salisbury Rural districts Worcester County— Snow Hill. Rural districts Total.	845 478 126 101

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Aberdeen, Wash	76		Columbia, S. C.	31	
Akron, Ohio	2 29		Columbus, Ga	11	1
Alton, Ill	29 25	2	Concord, N. H.	83	8
Amesbury, Mass	16		Corpus Christi, Tex	53	
Ann Arbor, Mich	19		Cortland, N. Y	5	
Anniston, Ala	15		Council Bluffs, Iowa		1
Ansonia, Conn	4		Covington, Ky	66	
Appleton, Wis	2		Cranston, R. I		1
Asbury Park, N. J	8		Cumberland, Md	33	3
Ashland, Ky	35	<u></u>	Dallas, Tex	82	7
Atlanta, Ga	237	27	Danbury, Conn	24	
Atlantic City, N. J.	8		Danville, Ill	10	
Attleboro, Mass	1 6		Danville, Va	123	6
Auburn, Me Baltimore, Md	369	24	Davenport, Iowa	1	
Bangor, Me	6	24	Dayton, Ohio Decatur, Ill	1	
Baton Rouge, La	2	2	Denver, Colo	1	7
Battle Creek, Mich	ī	"	Detroit, Mich	6	15
Bayonne, N. J	3		Du Bois, Pa	31	i
Beaumont, Tex	ľ	1	Duluth, Minn	7	2
Berkeley, Calif	53	$\tilde{3}$	Durham, N. C.		โ รี
Beverly, Mass	6		Durham, N. C. East Orange, N. J.	6	
Biddeford, Me	1	1	East St. Louis, Ill	4	
Binghamton, N. Y	52	4	Eau Claire, Wis	6	
Birmingham, Ala	103	35-	Elizabeth, N. J	2	1
Bloomington, Ill		2	Elkhart, Ind	3	
Boston, Mass	143	27	El Paso, Tex		8
Brazil, Ind	28	2	Erie, Pa	10	3
Bridgeport, Conn	48	7	Eureka, Calif	90	1
Bristol, Conn	20	1	Everett, Mass Fairmont, W. Va	4 2	
Brocton, MassBrookline, Mass	1 4		Fall River, Mass		
Brunswick, Ga	95	3	Findlay, Ohio	$\frac{32}{113}$	5
Buffalo, N. Y.	32	12	Flint, Mich.	110	i
Burlington, Iowa	2	12	Fort Scott, Kans	1	
Burlington, Vt	2	2	Fort Wayne, Ind	2	2
Cadillac, Mich	12	ī	Fort Worth, Tex		ĩ
Cairo, Ill	13	l	Fostoria, Ohio	. 4	.
Cambridge, Mass	29	1	Fremont, Ohio	1	
Canton, Ill		3	Fresno, Calif	65	4
Charleston, S. C	46	5	Galesburg, Ill	7	1
Charleston, W. Va	3		Galveston, Tex	2	1
Charlotte, N. C	9	<u>-</u>	Gardner, Mass	2	
Chattanooga, Tenn	28	5	Gary, Ind		2
Cheyenne, Wyo Chicago, Ill	2 321	2	Grand Rapids, Mich	51	. 1
Chillicothe, Ohio	321	51	Granite City, Ill Great Falls, Mont	5	
Cincinnati, Ohio	165	41	Graen Ray Wie	64 1	
Cleveland, Ohio	72	24	Green Bay, Wis	1	
Coffeyville, Kans	27	24	Greenwich, Conn	1	1
Cohoes, N. Y	12		Hackensack, N. J.		

INFLUENZA—Continued. City Reports for Week Ended Mar. 6, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Harrison, N. J. Hartford, Conn. Haverhill, Mass. Highland Park, Mich. Hoquiam, Wash. Hot Springs, Ark. Houston, Tex. Huntington, W. Va. Hutchinson, Kans. Indianapolis, Ind. Ironwood, Mich. Ishpeming, Mich.	1		Parsons, Kans. Pasadena, Calif. Passaic, N. J. Paterson, N. J. Pawtucket, R. I. Peoria, Ill. Perth Amboy, N. J. Petersburg, Va. Philadelphia, Pa. Piqua, Ohio	3	
Hartford, Conn	2	3	Pasadena, Calif.	18	
Haverhill, Mass	22	3	Passaic, N. J.	18	
Highland Park, Mich	124		Paterson, N. J.	17 18	
Hot Springs, Ark	94	i	Peoria. III	15	1
Houston, Tex	4	3 7	Perth Amboy, N. J.	i	
Huntington, W. Va		7	Petersburg, Va	20	1
Hutchinson, Kans Indiananolis Ind	5 16	18	Pique Obio	87 25	50
Ironwood. Mich	34	5	Philadelphia, Pa Piqua, Ohio Pittsfield, Mass, Plainfield, N. J. Portland, Me Portland, Oreg. Portsmouth, N. H. Portsmouth, Ohio Portsmouth, Va. Poughkeepsie, N. Y. Providence, R. I. Quincy, Mass.	20	
Itoliwood, Men. Ishpeming, Mich. Ithaca, N. Y. Jacksonville, Ill. Jamestown, N. Y. Jersey City, N. J. Kalamazoo, Mich.			Plainfield, N. J.	2	
Ithaca, N. Y	3	$\frac{2}{1}$	Portland, Me	_ 4]
Jacksonvine, III	2 9	1	Portsmouth N. H.	154 13	21
Jersey City, N. J.	4		Portsmouth, Ohio	i	
Kalamazoo, Mich	18	2	Portsmouth, Va	15	1
Kansas City, Kans	8	15	Poughkeepsie, N. Y.	1	
Kansas City, Kans Kansas City, Mo Kearny, N. J Keene, N. H	7	10	Oniney Wass	84 1	14
Keene, N. H	13	1	Racine, Wis	5	
			Raleigh, N. C.	24	3
KHOXVIIIE, TERR	49 13		Redlands, Calif	6 9	
La Crosse, Wis	2		Richmond, Va	32	
Knoxville, Tenn Lackawanna, N. Y La Crosse, Wis Lancaster, Pa	ī		Riverside, Calif.	58	
Lawrence, Kans	1	2	Roanoke, Va	9	1
Lawrence, Mass Leavenworth, Kans	2	2	Providence, R. I. Quincy, Mass. Racine, Wis. Raleigh, N. C. Redlands, Calif. Reno, Nev. Richmond, Va. Riverside, Calif. Roanoke, Va. Rochester, N. Y. Rocky Mount, N. C. Rome, Ga. Rome, N. Y. Rutland, Vt. Sacramento, Calif.	25	3
Leominster, Mass	11		Rome, Ga	241	24
Lexington, Kv	1	3	Rome, N. Y.	î	
Lincoln, Nebr	2		Rutland, Vt.	20	
Lockport, N. Y	42	·····i	Sacramento, Calif	39 3	
Little Rock, Ark Lockport, N. Y Long Beach, Calif Long Branch, N. J	12		St. Joseph, Mo	15	
Long Branch, N. J	2		St. Paul, Minn	2	2
Lorain, Onio	3 358	8	Salem, Oreg	15	
Lorain, Ohio Los Angeles, Calif Louisville, Ky	1	6	Salina, Kans	$\frac{6}{12}$	2
Lowell, Mass	59	2 3	San Bernardino, Calif	6	
Louisville, Ky Lowell, Mass Lynchturg, Va Lynn, Mass Manchester, N. H Mankato, Minn Mason City, Iowa Medford, Mass Melrose, Mass Memphis, Teun	5	3 4	San Diego Calif	27	4
Manchester N H	18	9	Sanford, Me. San Francisco, Calif. Saratoga Springs, N. Y.	20 340	31
Mankato, Minn	2		Saratoga Springs, N. Y.	64	ı "i
Mason City, Iowa	2		Savannah, Ga	167	14
Mediora, Mass	10	1	Savannah, Ga Schenectady, N. Y Sheboygan, Wis	7	2
Memphis, Tenn	23	5	Sioux Falls, S. Dak	3	
Memphis, Tenn Middletown, N. Y Milwaukee, Wis	16		Somerville, Mass	26	1 2
		5	Southbridge Mace	13	J
Minneapolís, Minn Missoula, Mont	5		Spartanburg, S. C. Springfield, Mass Springfield, Mo. Springfield, Ohio Staunton, Va. Steelton, Pa. Streace, N. V.	9	
Mohile, Ála	19	4	Springfield, Mo.		i
Montclair, N. J.	1		Springfield, Ohio	1	1
Morgantown W Va	47 31	12	Staunton, Va	25	
Morristown, N. J.	î		Svracuse, N. Y.		i
Muncie, Ind	1		Tacoma, Wash	14	
Nashville, Tenn Nawark N I	153 150	24	Taunton, Mass	7	3
Missoula, Mont Morile, Ala. Montelair, N. J. Montgomery, Ala. Montgomery, Ala. Morgantown, W. Va. Morristown, N. J. Muncie, Ind. Nashville, Tenn Newark, N. J. New Bedford, Mass. New Betford, Mass. New Britain, Conn New Detriain, Conn New Haven, Conn New London, Conn New Corleans, La Newfort, R. I. Newyork, N. Y. Niagara Falls, M. Y. North Adams, Mass North Little Rock, Ark. North Topowenda, N. Y.	17	1	Steelton, Pa Syracuse, N. Y Tacoma, Wash. Taunton, Mass. Terre Haute, Ind. Tiflin, Ohio. Toledo, Ohio Topeka, Kans Traverse City, Mich Trenton, N. J. Troy, N. Y Waltham, Mass. Washington, D. C. Watertown, N. Y Wausau, Wis. Westfield, Mass.	1	2
New Britain, Conn	25	6	Toledo, Ohio	2	e
Newburyport, Mass	9	;	Topeka, Kans	12	1
New London, Conn	42 9	12	Traverse City, Mich	5 36	
New Orleans, La.	261	27	Troy, N. Y.	30	i
Newport, R. I	8	3	Waltham, Mass	19	ĝ
Newton, Mass	4		Washington, D.C	21	
Niagara Falls, N. Y.	489 45	82	Wansan Wis	25 14	
North Adams, Mass	11	5	Westfield, Mass.	21	
Northampton, Mass	2 17		West Hoboken, N. J.	2 7	
North Little Rock, Ark North Tonawanda, N. Y	17		Wheeling W Va	7 5	
Norwich, Conn	i		Wichita, Kans.	2	8
Oakland, Calif	68	10	Wilkinsburg, Pa	2 3 1	3
Oklahoma City, Okla	3	······	Winchester, Mass	1	
Omaha. Nebr.	2 2	2 3	Winston-Salem N C	1 26	3
Orange, N. J.	68 3 5 3 8 1	l	Winthrop, Mass.	5	
Oshkosh, Wis	i		Wausau, Wis. Westfeld, Mass. West Hoboken, N. J. West Orange, N. J. Wheeling, W. Va. Wichita, Kans. Wilkinsburg, Pa. Winchester, Mass. Winona, Minn. Winston-Salem, N. C. Winthrop, Mass. Woburn, Mass. Worcester, Mass. Zanesville, Ohio		1
			II Microsofor Mace	39	. 19
North Tohawanda, N. Y Norwich, Conn Oak Park, III Oklahoma City, Okla Omaha, Nebr Orange, N. J Oshkosh, Wis Paducah, Ky Parkersburg, W. Va	23	·····i	Zanasvilla Ohia		13 1

LEPROSY.

California and Louisiana.

During February, 1920, one case of leprosy was reported at Pacton, Winn Parish, La. During the week ended March 6, 1920, one death from leprosy was reported at San Francisco, Calif.

LETHARGIC ENCEPHALITIS.

California, Louisiana, Maryland, and Michigan.

During February, 1920, one case of lethargic encephalitis was reported in Louisiana, two cases were reported in Maryland, and three cases were reported in Maine. During the week ended March 6, 1920, two cases and two deaths were reported at San Francisco, Calif.

MALARIA.

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Florida: Alachua County. Calhoun County. Citrus County Columbia County Duval County Jacksonville Escambia County Pensacola. Gadsden County Jackson County Lafayette County Leon County Total Louisiana: Acadia Parish De Soto Parish	1 3 1 5 3 3 3 4 4 3 2 1	Louisiana—Continued. East Carroll Parish Evangeline Parish La Salle Parish. Ouachita Parish. Rapides Parish St. Landry Parish St. Martin Parish Total Maryland: Baltimore County— Lake Roland New Mexico: Roosevelt County	2 4 2 1 1 1 7 7 23 = = = 1

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
El Paso, Tex		1 1	New York, N. Y	1 1	· · · · · · · · · · · · · · · · · · ·

MEASLES.

See telegraphic weekly reports from States, p. 775; Monthly summaries by States, p. 779; and Weekly reports from cities, p. 792.

PELLAGRA.

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Florida: Duval County— Jacksonville. Escambia County— Pensacola. Flagler County. Pa.m Beach County Total Louisiana: Concordia Parish. Orleans Parish	4	Louisiana—Continued. Rapides Parish Total. Maine: Lincoln County— Waldoboro (town) Maryland: Montgomery County— Takoma Park	1 1

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Charleston, S. C. Lexington, Ky. Montgomery, Ala.		1 1 1	Portsmouth, Va Savannah, Ga		1

PLAGUE (RODENT).

New Orleans, La.

During the period from March 6 to March 18, 1920, inclusive, seven plague-infected rats were confirmed in New Orleans, La. Two of these were *Mus alexandrinus* and five were *Mus norvegicus*.

PNEUMONIA (ALL FORMS). City Reports for Week Ended Mar. 6, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Aberdeen, Wash. Akron, Ohio. Alameda, Calif. Albany, N. Y. Alliance, Ohio. Alpena, Mich. Alton, Ill. Amesbury, Mass. Ann Arbor, Mich. Anniston, Ala Ansonia, Conn. Asbury Park, N. J. Ashland, Ky. Ashlabula, Ohio. Atlanta Ga. Atlantic City, N. J. Attlebror, Mass. Aurora, Ill. Austin, Tex. Baltimore, Md. Barberton, Ohio. Baton Rouge, La. Battle Creek, Mich. Bayonne, N. J. Beatrice, Nebr. Beaumont, Tex. Beaumont, Tex. Beaumont, Tex. Berkeley, Calif. Beverly, Mass. Biddeford, Me.	2 3 3 2 2 13 3 1 1 2 2 1 1 1 5 5 1 5 7 1 5 7 1 1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2 1 1	Binghamton, N. Y Birmingham, Ala Bloomineld, N. J. Bloomineld, N. J. Bloomington, Ill Boston, Mass Brazil, Ind Bridgeport, Conn. Bristol, Conn. Brockton, Mass. Brookline, Mass. Brunswick, Ga Buffalo, N. Y Burlington, Iowa Burlington, Iowa Burlington, Vt Butte, Mont. Cadillac, Mich Cairo, Ill Cambridge, Mass. Canton, Ill Charleston, W. Va. Charlotte, N. C. Chattanooga, Tenn Chelsea, Mass. Cheyenne, Wyo. Chicago Heights, Ill Chicago, Ill Chicopee, Mass. Chelicopee, Mass. Chillicothe, Ohio.	1 26 7 6 1 3 3 50 1 1 1 8 8 7 7 7 2 2 1 3 3 5 5 286	9 41 1 2 2 53 1 1 9 4 4 5 5 5 6 6 3 3 8 8 8 3 3
,		¹ Loba	r only.		

PNEUMONIA (ALL FORMS)—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Cincinnati, Ohio. Cleveland, Ohio Clinton, Mass. Cohoes, N. Y. Columbus, Ga. Columbus, Ghio Concord, N. H. Covington, Ky. Cranston, R. I. Cumberland, Me. Dallas, Tex. Danville, Ill	35	32	Little Rock, Ark Kalamazoo, Mich Kansas City, Kans Kansas City, Mo Kearny, N. J Keene, N. H Kokomo, Ind Lockport, N. Y Logansport, Ind Long Beach, Calif Long Branch, N. J Lorain, Ohio	6	
Cleveland, Ohio	36	4	Kalamazoo, Mich	5	5
Cohoos N V	5	1 3	Kansas City, Kans	4 16	14
Columbus Ga	7	8	Kearny N. J	10	14
Columbus, Ohio		11	Keene, N. H.	ĩ	
Concord, N. H		4	Kokomo, Ind		2
Covington, Ky	4	12	Lockport, N. Y	3	
Cumberland Ma	1 6	1	Long Rocch Colif	2	4
Dallas Tex	13	8	Long Branch N J	í	2 2 1 41
Danville, Ill	10	4	Lorain, Ohio Los Angeles, Calif Louisville, Ky Lowell, Mass	l	ĵ
Dayton, Ohio	6		Los Angeles, Calif	73	41
Decatur, Ill		2	Louisville, Ky	26	14 25 3
Denver, Colo		14	Lowell, Mass	7	2
Dovor N H	47	63	Lumphburg Vo	*	i
Duluth, Minn		î	Lynn, Mass	7	10
Durham, N. C	4	2 2	Lowell, Mass. Ludington, Mich Lynchburg, Va Lynn, Mass Malden, Mass.		1
East Chicago, Ind		2	Manchester, Conn	1	
Easthampton, Mass		2	Manchester, N. H	5	{
East Orange, N. J	6	1 1	Manchester, Conn. Manchester, N. H. Mankato, Minn. Marion, Ind.		5 1
Elizabeth. N. J		5	Marlhoro Mass	6	
Elkhart, Ind	1	2 5 5 2	Mason City, Iowa	l	j
Cranston, R. I. Cumberland, Me Dallas, Tex. Danville, Ill. Dayton, Ohio. Decatur, Ill. Denver, Colo. Detroit, Mich. Dover, N. II. Duluth, Minn. Durham, N. C. East Chicago, Ind. East Chicago, Ind. East Chicago, Ind. East St. Louis, Ill. Elizabeth, N. J. Elikhart, Ind. Elmira, N. Y. Elikhart, Ind. Elmira, N. Y. Eli Paso, Tex. Englewood, N. J. Eureka, Calif. Evanston, Ill. Everett, Mass. Fall River, Mass. Fall River, Mass. Filnt, Mich. Fort Dodge, Iowa Fort Boyne, Ind. Fort Worth, Tex. Freeport, Ill. Fremont, Ohio Fresno, Calif. Galesburg, Ill. Gardner, Mass. Gary, Ind. Geneva, N. Y. Grand Rapids, Mich. Grantie City, Ill. Grand Rapids, Mich. Grantie City, Ill. Greensboro, N. C. Hackensack, N. J. Hammond, Ind. Hartford, Conn. Haverhill, Mass. Highland Park, Mich. Holboken, N. J. Holland, Mich. Holloyke, Mass. Hod Springs, Ark. Houston, Tex. Huntington, W. Va	i	2	Mankato, Minn Marion, Ind Marlboro, Mass Mason City, Iowa Mattoon, Ill Medford, Mass Memphis, Tenn Methuen, Mass Minddletown, N. Y Milwaukee, Wis Minneapolis, Minn Mobile, Ala Monmouth, Ill Montclair, N. J Montgomery, Ala Morgantown, W. Va Morristown, N. J Muncie, Ind Muscatine, Iowa Nashville, Tenn Newark, N. J New Bedford, Mass New Britain, Conn New Bould, Mass New Britain, Conn New Jondon, Conn New Orleans, La Newport, R. I Newbort, R. I Newbort, R. I Newbort, R. I Newbort, N. Y Niagara Falls, N. Y Norfolk, Va North Adams, Mass North Atdams, Mass North Attleboro, Mass	1	
El Paso, Tex		1	Medford, Mass		31 2 1 15 3 4
Englewood, N. J		1	Memphis, Tenn		31
Eureka, Calli		1	Methuen, Mass	7	1
Everett Mass	1	3	Milwaukee Wis		19
Fall River, Mass	16	13	Minneapolis, Minn		1 8
Flint, Mich		5	Mobile, Ala	1	1
Fort Dodge, Iowa		4	Monmouth, Ill		4
Fort Scott, Kans	1	2 5	Montclair, N. J	12	5
Fort Wayne, Ind	10	10	Morgantown W Va	12	9
Freeport III	10	10 2	Morristown, N. J.		î
Fremont, Ohio	1	1	Muncie, Ind		2 1 9 20 20 4 1 11 3 29 5
Fresno, Calif		3	Muscatine, Iowa		1
Galesburg, III		3	Nashville, Tenn		29
Gardner, Mass	¦	4 3	Newark, N. J	81	20
Geneva N. Y	ii	'	New Britain, Conn	3	- 4
Glens Falls, N. Y	3	3	Newburyport, Mass	ĭ	j
Grand Rapids, Mich	19	4	New Haven, Conn		11
Granite City, Ill	¦ <u>-</u> -	2	New London, Conn	7	
Great Fails, Mont	2	12	New Orleans, La	10	2
Greenshoro N C	3	10	Newton Mass	í	j
Hackensack, N. J.	2	ľ	New York, N. Y	538	287
Hammond, Ind		1	Niagara Falls, N. Y	21	- 9
Hartford, Conn	1	9	Norfolk, Va	4	
Haverhill, Mass	2	2 3 4	North Adams, Mass	1	1
Hobokon N I	4	3	North Attleboro Mass	6	3
Holland Mich	1	i	North Attleboro, Mass North Attleboro, Mass North Little Rock, Ark North Tonawanda, N. Y	2	ľ
Holyoke, Mass	3	9	North Tonawanda, N. Y	$\bar{2}$	
Hoquiam, Wash	7		Norwalk, Conn Norwich, Conn Norwood, Ohio Oakland, Calif		1
Hot Springs, Ark		11	Norwich, Conn	1	1 3 3 4 16
Houston, Tex	10	6	Norwood, Onio	2	
Huntington, W. va Hutchingon Kong		8 3	Oak Park III	4	
Independence, Mo	·····i	1	Oklahoma City, Okla		1 3
Indianapolis, Ind	1	23	Olean, N. Y		4
Ironton, Ohio	2		Omaha, Nebr		10
Ironwood, Mich		1	Orange, Conn		
Irvington, N. J	2	·····i	Urange, N. J	1	
Ithaca. N. Y	6	1	Parkersburg, W. Va.	1	
Jamestown, N. Y	i		Oak Park, Ill. Oak Park, Ill. Oklahoma City, Okla. Olean, N. Y Omaha, Nebr Orange, Conn Orange, N. J Paducah, Ky Parkersburg, W. Va Parsons, Kans. Pasadena, Calif. Passaic, N. J Pawtucket, R. I. Peoria, Ill.	4	l
Holyoke, Massh. Hod Springs, Ark. Host Springs, Ark. Houston, Tex. Huntington, W. Va. Hutchinson, Kans. Independence, Mo. Indianapolis, Ind. Ironton, Ohio. Ironwood, Mich. Irvington, N. J. Ishpeming, Mich. Ithaca, N. Y. Jamestown, N. Y. Jefferson City, Mo. Jersey City, N. J. Lackawanna, N. Y. Lancaster, Ohio. Lawrence, Mass. Leominster, Mass. Lexington, Ky. Lima, Ohio. Lincoln, Nobr.	l	4	Pasadena, Calif.	l	i
Jersey City, N. J	13	1.0	Passaic, N. J.	6	
Lackawanna, N. Y	5		Pawtucket, R. I		
Lancaster, Unio	1 2 3	1	Porth Ambou N I		
Lawience, Mass	2	3	Patershire Vo		
Lexington, Ky	2	15	Peoria, III. Perth Amboy, N. J. Petersburg, Va. Philadelphia, Pa. Phillipsburg, N. J. Piqua, Ohio.	210	161
Lima, OhioLincoln, Nebr	1 5		Phillipshurg N. I.		-03
ина, ошо		2	I mmpsourg, iv. J	1	

PNEUMONIA (ALL FORMS)—Continued.

City Reports for Week Ended Mar. 6, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Place. Pittsfield, Mass. Plainfield, N. J. Plymouth, Mass. Pontiac, Mich. Port Huron, Mich. Port Huron, Mich. Portland, Me. Portsmouth, Oreg. Portsmouth, Olio. Portsmouth, Va. Poughkeepsic, N. Y. Providence, R. I. Pueblo, Colo. Quincy, Mass. Raleigh, N. C. Reno, Nev. Richmond, Ind. Richmond, Va. Riverside, Calif. Roanoke, Va. Rockford, Ill. Rock Island, Ill. Rock Island, Ill. Rock Island, Ill. Rock Island, Ill. Rock Mount, N. C. Rome, N. Y. Rutland, Vt. Sacramento, Calif. St. Joseph, Mo. St. Paul, Minn. Salem, Mass. Salina, Kans. Salt Lake City, Utah. San Bernardino, Calif. San Diego, Calif. Sandusky, Ohio. Sanford, Me.	1 2 3 3 2 4 4 6 1 1 5 11 2 2 10 2 2 3 5 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 3 3 3 10 7 23 22 5 12 2 10 10 1 3 3 3 3 2 2 2 2 2 2 2 2 2 2 3 3 3 2	Place. Sault Stc. Marie, Mich. Savannah, Ga. Schencetady, N. Y. Sioux Falls, S. Dak. Somerville, Mass. South Bend, Ind. Southbridge, Mass. Springfield, Ill. Springfield, Mo. Springfield, Ohio. Staunton, Va. Syracuse, N. Y. Tacoma, Wash. Taunton, Mass. Terre Haute, Ind. Tiffin, Ohio. Topeka, Kans. Trenton, N. J. Troy, N. Y. Vallejo, Calif. Waco, Tex. Washington, D. C. Watertown, Mass. Watertown, N. Y. Wausau, Wis. West New York, N. J. West New York, N. J. West New York, N. J. West Orange, N. J. Whoeling, W. Va. Wilnington, Del. Winnington, Springton, N. C. Woburn, Mass. Willmington, Del. Winnona, Minn. Winston-Salem, N. C. Woburn, Mass. Yonkers, N. Y. Zanesville, Ohio.	10 2 2 2 3 3 4 4 4 11 11 11 4 4 5 5 12 2 19 7 7	1 8 8 2 1 1 1 1 1 4 10 2 6 10

POLIOMYELITIS (INFANTILE PARALYSIS).

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Florida: Jackson County. Maryland: Baltimore. Michigan: Jackson County.	1	New Mexico: Dona Ana County New York: Monroe County— Rochester. New York City Total	1

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases. Deaths.		Place.	Cases.	Deaths.
Boston, Mass	1 1		New York, N. Y	1	·····i

RABIES IN ANIMALS.

Akron, Ohio, Bayonne, N. J., and Cincinnati, Ohio.

During the week ended March 6, 1920, one case of rabies in animals was reported at Akron, Ohio, one at Bayonne, N. J., and one at Cincinnati, Ohio.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 775; Monthly summaries by States, p. 779; and Weekly reports from cities, p. 792.

SMALLPOX.

State Reports for February, 1920—Vaccination Histories.

			Vaccination	history of ca	ses.
New cases reported.	Deaths.	Vacci- nated within 7 years preceding attack.	Last vaccinated more than 7 years preceding attack.	Never suc- cessfully vacci- nated.	History not ob- tained or uncertain.
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	cases reported. 1 2 1 1 2 1 1 4 4 5 5 1 7 7 1 5 2 2 2 1 1 6 6 2 2 3 3 4 3 3 1 5 1 2 2 2 1 1 2 2 2 1 1 2 1 2 1 2 1 2	cases reported. 1 2 1 4 4	New cases reported. Deaths. Packed within 7 years preceding attack. 1	New cases reported. Deaths. reported. Vaccinated within 7 years preceding attack. Last vaccinated within 7 years preceding attack. 1 ————————————————————————————————————	New cases reported. Deaths. Vaccinated within 7 years preceding attack. Last vaccinated more than 7 years preceding attack. Never successfully varcinated. 1 2 2 1 1 2 1 1 2 1 1 1 2 1

SMALLPOX—Continued.

State Reports for February, 1920-Vaccination Histories-Continued.

			Vaccination history of cases.			
Place.	New cases reported.	Deaths.	Vacci- nated within 7 years preceding attack.	Last vac- cinated more than 7 years preceding attack.	Never suc- cessfully vacci- nated.	History not ob- tained or uncertain
Michigan-Continued.						
Ingham County	15 4		2 2	2	9 2	2
Jackson County	1		-		1	
Kalamazoo County	13				6	7
Kalkaska County	4				4	
Kent County	13				1	12
I apeer County I uce County	1 2				1	ı
Macomb County	3		-			1
Marquette County	2		1			1
Mason County	4		. .		4	
Mecosta County	1				. 1	
Menominee County	1					1
Montmorency County Muskegon County	1 4		4		- 1	· · · · · · · · · · · · · · · · · · ·
Oakland County	12		*		8	4
Oceana County	4				2	į 2
Unionagon County	10				10	
Otsego County Schoolcraft County	5				5	
Shiawassee County	7 3		1		1	2
St. Joseph County	i				1	2 2 1
Tuscola County	9				2	l
Van Buren County	10		1		4	5
Washtenaw County	3				3	
Wayne County	88		1	3	38	46
Total	339		25	9	179	126
New Mexico:						
Bernalillo County.	1				1	l <i></i>
Chaves County	1					1
Dona Ana County	3 2				2	3
Eddy CountyGrant County	1 2				1	
Hidalgo County.	3			1		2
I incoln County	i				1	
McKinley County	1				1	1
Otero County	11		1		7	3
Rio Arriba County	1 4					1
Roosevelt County	7				3 7	
Santa Fe County	i				i	
Sierra County. Socorro County.	12				12	
Socorro County	6		2		4	
Torrance County.	5 7				5	
Union County Valencia County	í				5 1	4
•						
Total	68		3	1	. 50	14
N VI						
New York: Cattaraugus County				1		l
_ Allegany (town)	1			1		
Erie County				_		
Buffalo	10				10	-
Livingston County—						
Groveland (town) New York City	$\frac{1}{2}$				1	2
Niagara County	2					1 2
Royalton (town)	1			l	1	l
Orange County						
Warwick	6				6	
Total	21			1	18	2
10031	21			•	16	

SMALLPOX—Continued.

State Reports for February, 1920.

Place.	Cases. Deaths.		Place.	Cases.	Deaths.
Arizona:			Maine—Continued.		
A pache County	1		Aroostook County-		
Maricopa County	8		Van Buren (town)	2	
Mohave County.	ĭ		Franklin County-	_	
Pinal County.	î		Rangeley (town)	1	
Yavapai County	5		Jay (town)	5	
Yuma County	š		Penobscot County—	•	
Tunia County			Brewer	1	
Total	19		Waldo County-	-	
			Stockton Springs		
Louisiana:			(town)	2	
Ascension Parish	1		(6011)		
Assumption Parish	2		Total	23	
Bossier Parish	1		10001	20	
Caddo Parish	18		West Virginia:		
East Baton Rouge Parish.	1		Barbour County	10	
East Carroll Parish	13		Braxton County	3	
East Feliciana Parish	6		Cabell County	4	
Iberia Parish	1		Doddridge County	2	
Iberville Parish	15			26	
Jefferson Parish	1		Fayette County	4	• • • • • • • • •
Lafourche Parish	1		Greenbrier County	5	• • • • • • • • •
Lincoln Parish	1		Hancock County	24	
Morehouse Parish	1			48	
Natchitoches Parish	6		Kanawha County	50	
Orleans Parish	128		McDowell County	ου 4	
Ouachita Parish	11		Marion County	1	
Rapides Parish	2		Marsuali County	32	
Richland Parish	2		Mercer County		
St. James Parish	1		Mineral County	6 2	
Vermilion Parish	ī		Mingo County	1	
Washington Parish	5		Monongalia County	1 0	
West Carroll Parish	13		Monroe County	2	
West Feliciana Parish	-ĭ		Preston County	.1	
			Raleigh County	11	
Total	232		Randolph County	20	
			Taylor County	5	
Maine:			Upshur County	4	
Androscoggin County—	_	l	Wayne County	3	
Auburn	2		Wirt County	2	
East Livermore	_		Wyoming County	10	
(town)	4				
Lewiston	6	1	Total	280	l

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases	Deaths.	Place.	Cases.	Deaths.
Place. Akron, Ohio. Alliance, Ohio Alliance, Ohio Alton, Ill. Appleton, Wis. Atlanta, Ga Auburn, Me Baltimore, Md Baton Rouge, La Battle Creek, Mich Beatrice, Nebr Bellingham, Wash Birmingham, Ala Bluefield, W. Va Boise, Idaho. Canton, Ohio Cedar Rapids, Iowa Chattanooga, Tenn Chicago, Ill. Chillicothe, Ohio Cincinnati, Ohio	7 2 1 4 11 4 2 2 3 2 1 5 5 11 4 5 5 8 1		Place. Denver, Colo: Des Moines, Iowa Detroit, Mich Dubuque, Iowa East St. Louis, Ill El Paso, Tex Everett, Wash Findlay, Ohio Fond du Lac, Wis. Fort Dodge, Iowa Fort Scott, Kans Fort Smith, Ark Fort Worth, Tex Galesburg, Ill Grand Rapids, Mich Great Falls, Mont Green Bay, Wis Highland Park, Mich Hoquiam, Wash	42 1 21 6 1 1 2 2 2 1 2 1 5 2 1 9	Deaths.
Cleveland, Ohio Clinton, Iowa Columbus, Ga Columbus, Ohio Council Bluffs, Iowa Dallas, Tex Danville, Ill Davenport, Iowa Dayton, Ohio Decatur, Ill	1 4 2 34 2 15 5		Hot Springs, Ark Houston, Tex Huntington, Ind Huntington, W. Va. Indianapolis, Ind. Ironwood, Mich Janesville, Wis Kansas City, Kans Kansas City, Mo. Kenosha, Wis	2 1 2 8	

SMALLPOX—Continued. City Reports for Week Ended Mar. 6, 1920—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Knoxville, Tenn	1		Pontiac, Mich	1	
Kokomo, Ind	7		Portland, Oreg	50	1
La Fayette, Ind	1		Portsmouth, Ohio	3	1
Lincoln, Nebr	4		Portsmouth, Va	3	
Logansport, Ind	3	1	Pueblo, Colo	2	
Long Beach, Calif	7		Racine, Wis	ī	
Los Angeles, Calif	13	1	Richmond, Ind	2	
Ludington, Mich	2		Roanoke, Va	ī	
Lynchburg, Va	1		Rock Island, Ill	3	
Madison, Wis	ī		St. Joseph, Mo	22	
Mankato, Minn	ĩ	1	St. Louis, Mo	7	
Marinette, Wis	î		St. Paul, Minn	30	
Marion, Ind	i		Salt Lake City, Utah	12	-
Marion, Ohio	4		San Bernardino, Calif	2	
Marshalltown, Iowa	5		San Francisco, Calif	8	
Mason City, Iowa			Sheboygan, Wis	1	
Memphis, Tenn	4		Sioux City, Iowa	2	j
Milwaukee, Wis	15		Sioux Falls, S. Dak	3	
Minnoanalia Minn	24		Couth Dond Ind	3	
Minneapolis, Minn			South Bend, Ind	9	
Mobile, Ala	8		Spartanburg, S. C		-
Muskogee, Okla			Spokane, Wash	44	
Nashville, Tenn	1		Superior, Wis	18	
New Orleans, La	40	5	Tacoma, Wash	7	
Norfolk, Va	7		Terre Haute, Ind	7	
Oakland, Calif	.1		Vancouver, Wash	6	
Ogden, Utah	10		Waco, Tex	1	
Oklahoma City, Okla	3		Walla Walla, Wash	7	
Omaha, Nebr	9		Washington, D. C	1	
Oshkosh, Wis	2		Wausau, Wis	1	
Paducah, Ky	3		Wichita, Kans	15	
Parsons, Kans	1		Winston-Salem, N. C	4	
Philadelphia, Pa	1	l	Yakima, Wash	12	l
Piqua, Ohio	2		Zanesville, Ohio	1	

TETANUS.

Los Angeles, Calif., Rock Island, Ill., and Winston-Salem, N. C.

During the week ended March 6, 1920, two cases and one death from tetanus were reported at Los Angeles, Calif., one case at Rock Island, Ill., and one death at Winston-Salem, N. C.

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 775, and Weekly reports from cities, p. 792.

TYPHOID FEVER.

State Reports for February, 1920.

Place.	New cases reported.	Place.	New cases reported.
Delaware: New Castle County Edgemoor Milten Wilford Wilmington Total Florida: BeSoto County Escant ia County—	1 1 2 6	Florida—Continued. Polk County. St. Lucie County. Seminole County. Volusia County Total Louisiana: Acadia Parish Avoyelles Parish Caddo Parish	1 2 8 23 23 1 9 3 3
Pensacola Manaree County Marion County Pasco County Pinellas County	1 1 2	East Baton Rouge Parish Lafayette Parish Lafourche Parish Orleans Parish Pointe Coupee Parish	1 2 1

TYPHOID FEVER—Continued. State Reports for February, 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
Louisiana—Continued.		New York—Continued.	
St. James Parish	1	Cattaraugus County—	l
St. Martin Parish	ī	Cattaraugus	1 1
St. Martin Parish Terrebonne Parish	3	Cavuga County—	1
Vernon Parish	1	l Auburn	1 2
m		Erie County—	_
Total	30	Buffalo	4
Maine:		Lackawanna Hamburg West Seneca (town)]
Androscoggin County—		Wort Sange (town)]]
Lewiston	2	Essex County—]]
Aroostook County—		Lake Placid	1 1
Blaine (town)	1	Fulton County—	·
Mapleton (town)	1	Fulton County— Johnstown	
Presque Isle (town)	2	Jefferson County—	
Van Buren (town)	1	Wilna (town)	1
Cumberland County— Portland	6	New York City	14
Kennebec County—	Ü	Niagara County—	
Waterville	. 2	Niagara Falls Oneida County—	:
Penobsect County—		Utica	Ι.
Old Town	3	Onondaga County—	;
Piscataquis County—		Otisco (town)	
Milo	1	Ontario County—	
Total	10	Geneva (town)	
Total	19	Seneca (town)	
Maryland:		Orleans County—	l
Baltimore	4	Medina	
Anne Arundel County—	-	Otsego County— Burlington (town)	
Annapolis	2	Rensselaer County—	:
Baltimore County-		Troy	
Garrison	1	St. Lawrence County—	
Cecil County—		Ogdensburg	
Elkton	1	Saratoga County—	1
Dorchester County— Crocheron	1	Saratoga Springs	1 1
Kent County—		Schenectady County—	'
Queen Anne. R. D	1	Glenville (town)	1 :
Somerset County	-	Schoharie County—	
Marion. Pocomoke City, R. D. Washington County –	1	Fulton (town) Schuvler County—	
Pocomoke City, R. D	2	Watkins	Ι.
Washington County -	_	Seneca County—	1
Harrestown	1	Seneca Falls	
Hancock Hagerstown Wicomico County—	1	Suffolk County—	i '
Pittsville	1	Suffolk County— Islip (town)	:
110,1110	1	Sullivan County—	l
Total	16	Rockland (town)] :
		Ulster County—	
Michigan:		Saugerties (town)	
Bay County	1	Washington County—	1
Genesee County Huron County Mecosta County.	1	Whitehall	
Meeosta County	2 1	Westchester County—	١.
Midland County	$\frac{1}{2}$	Mt. Vernon	
Saginaw County	í		
St. Clair County	î	Total	50
Washtenaw County	1		
Wayne County	12	West Virginia:	l
Wexford County	2	Barbour County	
Kent County	1	Berkeley County	
Total	0.5	Braxton County	
Total	25	Cabell County	:
New Mexico:		Cabell County. Fayette County.	
Bernalillo County	1	Greenbrier County	1
Chaves County.	î	Greenbrier County Kanawha County Marion County	1
Chaves County	3	Marion County	[.
Rio Arriba County	2 1	Marshall County	1
San Miguel County	1	Mercer County	
Taos County	. <u>1.4.</u>	Mingo County	
Total		Nicholas County	
1 Otal	. 9	Ohio County	
New York:		Raleigh County	
Albany County—		Randolph County	:
_ Albany	1	Randolph County Wayne County	
Broome County—	•		
Binghamton		Total	40

TYPHOID FEVER—Continued.

City Reports for Week Ended Mar. 6, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Baltimore, Md Boston, Mass. Charleston, S. C. Chattanooga, Tenn Cincinnati, Ohio. Cleveland, Ohio. Colorado Springs, Colo. Covineton, Ky Duluth, Minn Fall River, Mass. Grand Rapids, Mich Independence, Mo Ironton, Ohio. Kansas City, Mo	1 1 1 1 1 1 1 1	1	Lawrence, Mass Los Angeles, Calif Milwaukee, Wis Nashville, Tenn New Orleans, La New York, N. Y Oakland, Calif Philadelphia, Pa Richmond, Va San Francisco, Calif Toledo. Ohio Troy, N. Y Watertown, N. Y Wheeling, W. Va	7 1 1 2 5 2 5 1 2	1 1 1

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City Reports for Week Ended Mar. 6, 1920.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.	Sca fev	rlet er.	Tul culo	
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak Aberdeen, Wash Akron, Ohio Alameda, Calif Albany, N. Y Alexandria, La Alexandria, La Alliance, Ohio Alpena, Mich Alliance, Ohio Alpena, Mich Alton, Ill Amesbury, Mass Ann Arbor, Mich Anniston, Ala Ansonia, Conn Appleton, Wis Arlington, Mass Asbury Park, N. J Ashland, Ky Ashtabula, Ohio Atlanta, Ga Atlantic City, N. J Attleboro, Mass Auburn, Me Aurora, Ill Austin, Tex Baltimore, Md Bangor, Me Barberton, Ohio Baton Rouge, La Battle Creek, Mich Bayonne, N. J Beatrice, Nebr Beaumont, Tex Bellieville, N. J Bellingham, Wash	15, 926 21, 392 23, 604 28, 433 106, 632 17, 939 10, 581 13, 365, 614 14, 326 16, 954 18, 005 13, 073 14, 629 12, 195 22, 008 196, 144 59, 515 19, 776 16, 607 34, 795 35, 612 591, 637 26, 958 14, 187 17, 544 30, 159 19, 776 16, 607 21, 795 35, 612 22, 195 35, 612 22, 195 35, 612 22, 195 36, 197 36, 198 37, 198 38, 19	3 42 11 3 3 9 4 4 4 12 2 3 4 105 17 13 9 272 4 5	1 1 1 4 1 1 3 3 1 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1	7 1 65 22 2 1		11		41 5 5 1 2 2 1 1 2 2 3 1 1 5 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Beloit, Wis Berkeley, Calif. Beverly, Mass. Biddeford, Me. Billings, Mont. Binghampton, N. Y. Birmingham, Ala. Bloomfield, N. J. Bloomington, Ill.	18,547 60,437 22,128 17,760 15,123 54,864 189,716 19,013 27,462	13 7 8 12 30 123 2 19	2 2 2 1 3		4 4 5 8 4		12 2 3 5 5 2 1	i	1 1 2 4 1	1 6
Boise, Idaho Boston, Mass Brazil, Ind.	35,951 767,813 10,472	294 8	42	3	236 1	2	51	i	46	24

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.	Tu cul	ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
						<u> </u>		<u> </u>		
Bristol, Conn	124,724 16,318	49 11	2	1	4		6		4	5
Bristol, Conn Brockton, Mass Brookline, Mass Brunswick, Ga. Brunswick, Ga. Buffalo, N. Y Burlington, Iowa. Burlington, Vt. Butte, Mont Cadillac, Mich Carlor, Ill. Cambridge, Mass. Canton, Ill. Canton, Ohio.	69,152	22	3	i	8		3		8	3
Brookline, Mass	33, 526 10, 984 475, 781 25, 144	6	1		1		1 1		····i	
Buffalo, N. Y	475, 781	199	51	7	66		8		26	16
Burlington, Iowa	25,144		1				3			
Butte Mont	21,802 44,057	15 21	1		2		i		1	·····i
Cadillac, Mich	10,158	7	i		8					l î
Cairo, Ill	15, 995 114, 293 13, 674	11			9		2			· · · ·
Canton Ill	13, 674	37 7	5.		12		2		8	4
Canton, Ohio		35	1	2	4		4		1	1
Canton, Ohio. Cedar Rapids, Iowa. Centralia, Ill Charleston, S. C. Charleston, W. Va. Charlotte, N. C. Chatteston, Tann	38,033		·····i		1		2		<i></i>	
Charleston, S. C	61,041	5 55	i							4
Charleston, W. Va	11,838 61,041 31,060 40,759	6								<u>.</u>
Charlotte, N. C	40,759 61,575	11 33	····i		3		2		5 1	5
Chelsea, Mass	48 405	15	1				2			3
Cheyenne, Wyo	1 11,320	. 8			2				1	1
Chattanogg, Tenn Chelsca, Mass Cheyenne, Wyo Chicago Heights, Ill Chicago, Ill	111,320 22,863 2,547,201 29,950	7 796	117	17	218	2	318	3	226	72
Chicopce, Mass	29, 950	11			210	î	510			
Chillicothe, Ohio	15,625	2					<u></u>			
Claveland Obje	602 250	200 240	10 28	3	173 152	10	73 43		26 24	12 11
Clinton, Iowa	414, 248 692, 259 27, 678 1 13, 075	240	20		102		1		24	
Clinton, Mass	1 13,075	6					1		1	
Cohoos N V	18,331	5 9	·····i		5				2	i
Colorado Springs, Colo	25, 292 38, 965		2		4				10	
Chicopce, Mass. Chillicothe, Ohio. Cincinnati, Ohio. Cleveland, Ohio. Clinton, Iowa. Clinton, Mass. Coffeyville, Kans. Cohoes, N. Y. Colorado Springs, Colo. Columbia, S. C. Columbia, S. C.	35, 165 26, 306 220, 135		Ī		1				1	
		15 83	2	1	76	····i	11		6	12
Columbus, Ohio. Concord, N. H. Corpus Christi, Tex. Cortland, N. Y. Council Bluffs, Iowa Covington, Ky. Cranston, R. I. Cumberland, Md. Dallas, Tex. Danbury, Conn. Danvers, Mass Danville, Ill. Davenport, Iowa	22,858	14			40					1
Corpus Christi, Tex	10,789	7			1				1	1
Council Bluffs Iowa	13,321 31,838	6 17	1		4		1 4		1	
Covington, Ky	59,623	38	3		37		3			3
Cranston, R. I.	59, 623 26, 773	7	1				2			1
Dallas, Tex	26, 686 129, 738	17 51	10		1	• • • • • • • • • • • • • • • • • • • •	4		1 19	•••••
Danbury, Conn	22,931				11					
Danvers, Mass	10,037				$\frac{1}{25}$					
Davenport, Iowa	22,931 10,037 32,969 49,618	10	1		25		1		10	2
Dayton, Ohio	128,939	54	2		51		13		1	
Decatur, Ill	41,483	17	1		56		····· <u>2</u> ·		4	2
Denver, Colo	10,618 268,439	83	3	····i	1 38	• • • • • •	4		4	19
Dayton, Ohio. Decatur, Ill. Dedham, Mass Denver, Colo. Des Moines, Iowa	268, 439 104, 052		2				4			l <i></i>
Des Moines, Iowa Detroit, Mich Dover, N. H Dubuque, Iowa Duluth, Minn Durham, N. C East Chicago, Ind East Cleveland, Ohio	619, 648	303	84	12	102	3	97	3	31	33
Dubuque, Iowa	13,276 40,096	7	3		1		····i			
Duluth, Minn.	97,077	19			4		4		3	1
Durham, N. C.	26, 160 30, 286	20					3		• • • • •	2
East Cleveland, Ohio	13,864	10	····i	1	20		····i			
East Ampton, Mass East Orange, N. J. East Providence, R. I. East St. Louis, Ill.	10,656	2			1		1		2	
East Orange, N. J	43,761	6	1		22		2		• • • • •	
East St. Louis, Ill	18,485 77,312	15	2 2		24		2			3
Eau Claire, Wis					8 2		1			ļ .
Elgin, Ill	28,362	. 6	2		2		9		1	
Williambath M. T.			4		65		4		4	2
Elizabeth, N. J	88,830 22,273	11			1	j	5			
Eau Claire, Wis Elgin, III. Elizabeth, N. J. Elkhart, Ind. Elmira, N. Y. El Paso, Tox.	22, 273 38, 272 69, 149	11 12 83	2		1 46 23	······	5		3	1 18

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.	Sca fev	rlet ver.		ber- osis.
City.	(estimated by U. S.	from		s;		8		, pi		ri.
	Census Bureau).	causes.	Cases.	Deaths.	Cases.	Deaths	Cases.	Deaths	Cases.	Deaths
			0	<u> </u>	0	Δ_	0	Α	Ö	<u> </u>
Englewood, N. J. Eureka, Calif. Eureka, Calif. Everett, Mass. Everett, Wash. Fairmount, W. Va. Fail River, Mass. Findlay, Ohio. Flint, Mich	12,603	1			19					
Evanston III	15,142 29,304	14 8	1				2		, 1	:
Everett, Mass	40,160	10	2		12		ĩ			
Everett, Wash	40,160 37,205		1							
Fairmount, W. Va	16,111 129,828	63	6	····i	13	2		1	7	
Findlay, Ohio	114.858	3			1 2			l	L	
Findlay, Ohio. Flint, Mich. Fort Dodge, Iowa. Fort Scott, Kans. Fort Smith, Ark. Fort Wayne, Ind. Fort Worth, Tex. Fostoria, Ohio. Freenort, Ill	1 14,858 57,386 21,039	26	6				8			
Fort Dodge, Iowa	21,039	4			2					
Fort Scott, Kans	10,564	8			2					
Fort Wayne, Ind	29,390 78,014	33	2	1			9			
ort Worth, Tex	109, 597 10, 959	23					3		1	
Costoria, Ohio	10,959	4			27		1			
reeport, III	19,844	12					2			
remont, Ohio.	10,080	3 3	1		24		3			
Preeport, Ill Fremont, Nebr. Fremont, Ohio Fresno, Calif	11,034 36,314	18								
alesburg, Ill	24,629	11								
alesburg, Ill alveston, Tex ardner, Mass	42,650	11					2			
	17,534 56,000	14 11	2		1		2			
leneva, N. Y.	13.915	5					ī			
lens Falls, N. Y	17,160	š								
loucester City, N. J	11.375	<u></u> -	1		1					
rand Napids, Mich	132,801	35 5	3		113 12		6		6 1	
ieneva, N. Y. Ilens Falls, N. Y. Ilens Falls, N. Y. Ilenseter Chit, N. J. Irand Rapids, Mich Iranite City, Ill. Ireat Falls, Mont	132, 861 15, 890 113, 948	19			12		2		1	
reeley, Colo	11,942	2								
reen Bay, Wis	30,017						1			
reenneld, Mass	12, 251 20, 171	12			8		2	1		
reenwich, Conn	19,594	1 9	10	2	1				····i	
ireat Falls, Mont irecley, Colo. irecen Bay, Wis ireenfield, Mass ireenfield, Mass ireensboro, N. C. ireenwich, Conn dackensack, N. J. jammond, Ind Harrison, N. J. Hartford, Conn faverhill, Mass ilbbing, Minn	17, 412	6			3					
lammond, Ind	27, 016 17, 345 112, 851	9			13		2			
Hartford Conn	17,345	38	10		6		8		1 6	
Haverhill, Mass	49,180	19	3		44		3		1	
Hibbing, Minn	17,550				2					
lighland Park, Mich	33, 859 78, 324	9	4		45		5			
Hibbing, Minn. Highland Park, Mich. Hoboken, N. J. Holland, Mich.	78, 324 12, 459	20 8	5		8				1	
Holyoke, Mass Joquiam, Wash Jot Springs, Ark Jouston, Tex Judson, N. Y	66,503	16			23		6		2	
loquiam, Wash	12,230						ž			
lot Springs, Ark	17,690	19	2							
Judean N V	116,878 12,898	48	6		14	• • • • • •	1			:
Juntington, Ind.	10 982	1 2					2			
untington, Ind Iuntington, W. Va Iutchinson, Kans ndependence, Kans	47,686	35					3			
lutchinson, Kans	21,461				1					
ndependence, Kans ndianapolis, Ind ronton, Ohio ronwood, Mich rvington, N. J. shpeming, Mich thaca, N. Y.	15,111 283,622	9 99			120		10		1 10	
conton, Ohio	14,079	5	2		132		10		10	,
onwood, Mich	15,095	10					2			
vington, N. J	15,095 16,710 112,448				9					
shpeming, Mich	1 12,448	4		• • • • • •	:		;-			
acksonville Ill	16,017 15,506	6 8			1 4		1		•••••	
mestown, N. Y	37, 431	5	1		7					
inperning, Mich. haca, N. Y. ucksonville, Ill. amestown, N. Y. anesville, Wis. efferson City, Mo. rrsey City, N. J. pplin, Mo. alamazoo, Mich.	14, 411 13, 712	6			7		1			
ellerson City, Mo	13,712	6	<u>-</u> -						;;	
onlin Mo	312,557	5	6		. 50		7	• • • • • •	12	••••
Salamazoo, Mich	33, 400 50, 408	30	·····2		2		2		1 3	
ankakee, Ill	50, 408 14, 270	7					· 1			
kansas City. Kans l	102.096		5		17		4		1	
Kansas City, Mo Kearny, N. J Keene, N. H	305, 816 24, 325 10, 725	105	6		42 7	2	11		11	8
Frantih 1 11 - A	24, 323	13	• • • • • •		'		4		1	• • • • •
cene. N. H	10.725	3								

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis.
City.	July 1, 1917 (estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Knoxville, Tenn	59,112		9	1	69		1		6	
Kokomo, Ind	21,929	14			4		12			
Lackawanna, N. 1	16, 219 31, 835	2					4		4	
a Favette. Ind	21,481	8			3		i			
Lancaster, Ohio	16,086	5	1		ĭ		i			
Lawrence, Kans	13, 477	3								
Lawrence, Mass	102,923	35 7	4	1	2		1		6	
Leavenworth, Kans	1 19, 363 21, 365	2	2		1		1 3	ļ		
Lexington, Ky.	41,997	35			3				6	
Lima, Ohio	37, 145	35 12	2	{	1		1			
Lincoln, Nebr	46,957	18			31	1	4			ļ
ocknort N V	58,716 20,028	6			1		1 1			
ogansport, Ind	21,338	11	i		18		3			
Long Beach, Calif	29, 163	17	ī		7		2		1	
long Branch, N. J	15,733 38,266	3			11				1	
orain, Unio	535, 485	3 212	28		5 49				3 50	2
ouisville. Kv	240,808	96	16	3	16		10		8	1 2
owell, Mass	114,366	68	2				3		6	
Ludington, Mich	10,566 33,497 104,534	6					1			
ynchburg, Va	33,497	14							2	1
Agdison Wis	31,315	40	1	2	3 9		18		3	
Aalden, Mass	52, 243	14								
Manchester, Conn	15,859	1								
Manchester, N. H	79,607	31	- 6	2	5	1			6	
Manitowoe, Wis	13, 931 1 10, 365	4			3		10		•••••	
Marion, Ind.	19,923	13			43	i	2			
Marion, Ohio	24, 129		3		î		3			
Lancaster, Öhio Lawrence, Kans Lawrence, Mass Leavenworth, Kans Leominster, Mass Lexington, Ky Lima, Ohio Lincoln, Nebr Little Rock, Ark Lockport, N. Y Logansport, Ind Long Beach, Calif Long Beach, Calif Lorain, Ohio Los Angeles, Calif Louisville, Ky Lowell, Mass Ludington, Mich Lynchburg, Va Lynn, Mass Madden, Mass Manchester, Conn Manchester, N. H Manitowoc, Wis Mankato, Minn Marion, Ind Marin, Ohio Martinsburg, W. Va Mason Matton, Ill Medford, Mass Melores, Mass Matton, Ill Medford, Mass Melores, Mass Matelores, Mass Matton, Ill Medford, Mass Melores, Mass	12,984	1		1						
Mason City, Iowa	14, 938	6	1		1 6					
Medford, Mass	12,764 26,681	9	2		5		· · · · · · · · ·		3	
Medford, Mass Melrose, Mass Memphis, Tenn Meriden, Conn Methuen, Mass Middletown, N. Y Middletown, Ohio Milwaukee, Wis. Minneapolis, Minn Mishawaka, Ind Missoula, Mont Moott, Mil Montclair, N. J Montgonery, Ala		š			19		2			
[emphis, Tenn	151,877	55	4		12				4	
Aeriden, Conn	29, 431	•••••	3		8		3			
Middletown, N. Y.	14,320 15,890	3	1		1		17			• • • •
Middletown, Ohio	16,384	4								
Ailwaukee, Wis	445,008	101	24	3	37		34	2	28	
dinneapolis, Minn	373, 448	95	10		44		22		7	
dissoula Mont	17, 083 19, 075	4	• • • • • •	•••••			1	•••••	1	
fobile. Ala	59, 201	26	2							
Ionmouth, Ill	10,346	7	1							
Iontclair, N. J	27, 087	5	2		1		1		1	·
tontcair, N. J. forgantown, W. Va. forristown, N. J. foundsville, W. Va. funcie, Ind.	44,039 14,444	35 4				•••••	1	• • • • • • •		
forristown, N. J.	13, 410	6							1	
foundsville, W. Va	11.513	2			6		i			
Iuncie, Ind	25, 653 17, 713	10	5		57		2			
Just organ Obla	17, 713	8	• • • • • •	• • • • • •	2					
Jawark N J	47, 173 418, 789	132	29	····i	253	2	23	•••••	31	1
lashville, Tenn	118 136	58	ĭ	<u>*</u>	200		7		4	•
lew Bedlord, Mass	121,622	53	2		2		10		5	
lew Britain, Conn	121,622 55,385 15,291	21	3	1	2		7			• • • • •
lew Haven Conn	15, 291 152, 275	9 69	1 12	····i	46		6			••••
lew London, Conn	21, 199	09	12		28		0		5	
lew Orleans, La	21, 199 377, 010	205	3	1	1		10	1	33	2
funcie, Ind. fuscatine, Iowa fuskogee, Okla lewark, N. J sashville, Tenn. lew Bedford, Mass lew Britain, Conn. lewburyport, Mass. lew Haven, Conn. lew Conn. lew Orleans, La. lew Philadelphia, Ohio. lewport, R. I. lewton, Mass. lew York, N. Y.	10, 133		1		3					
vewport, K. I	30,585	10			23				1 2	
Janton Moce	44,345	12								

•	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis.
City.	(estimated	from						, i		l .:
	by U. S. Census	all causes.	Cases.	Deaths	Cases.	Deaths	Cases.	Deaths	Cases.	Deaths
	Bureau).		రో	ñ	రో	De	ပ္သ	å	రో	ಗೆ
Niagara Falls, N. Y	38, 466	26	4		112	4	1			
Monfalls Vo	91, 148		2				1			
North Adams, Mass	1 22, 019 20, 006	16	1		·····2		2		;-	
	11 248	13 5			2		3		1	•••••
North Attleboro, Mass. North Little Rock, Ark North Tonowanda, N. Y.	11,248 15,515								2	
North Tonowanda, N. Y	14,060	0	1				1		1	
Norwalk, Conn. Norwich, Conn. Norwood, Ohio. Oakland, Calif. Oak Park, Ill	27, 332 21, 923	9 8			1 1 8		1		2	
Norwood, Ohio	23, 269				8		3			
Oakland, Calif	23, 269 206, 405 27, 816	67	2 3	1	38	4	1		2	3
Oak Park, Ill	27, 816	15 7	3 2		1 2		1	1	1	
Ogden, Utah	32, 343 97, 588	20	2		50		1			
Olean, N. Y	16, 927	12			30					
Oklahoma City, Okla Olean, N. Y Omaha, Nebr Orange, Conn	16, 927 177, 777 14, 393	53 8	4		41		27			4
Orange, Conn	14,393	8,	1 8	1	5 6					1
Orange, N. J	33, 636 36, 549	15	ı		11		• • • • • •		1	1
Paducah, Ky	25, 178		l		19					
Parkersburg, W. Va	21,059	11	1		8					
Orange, N. J. Orange, N. J. Oshkosh, Wis. Paducah, Ky. Parkersburg, W. Va. Parsons, Kans. Pasadena, Callif. Passaic, N. J. Paterson, N. J. Pawtucket, R. I. Peekskill, N. Y. Peorla, Ill. Perth Ambov, N. J.	15,952	;;-	1				2		1	
Passadena, Cam	49, 620 74, 478	11 22	1 4		5 10	i	•••••	• • • • • • •	6 7	
Paterson, N. J.	140, 512	12	10		65		2		8	
Pawtucket, R. I	60,666	24	2	1						
Peekskill, N. Y	19,034 72,184	6	····				<u>-</u> -			
Perth Amboy N I	72, 184 42, 646	30 5	3 4		····i		5 2		i]]
Petersburg, Va	25, 817	12	*		1				3	
Peoria, III Perth Amboy, N J Petersburg, Va Philadelphia, Pa Phillipsburg, N J Piqua, Ohio.	1.735.514	731	67	14	602	8	64	7	118	6
Phillipsburg, N. J	15,879 14,275	2 7					1			
Pittefield Macc	39,678	14			9		····i			
Plainfield, N. J.	24,330				1				2	
Plattsburg, N. Y	13,111	1								
Plymouth, Mass	14,001	.8	<u>-</u> -							
riqua, Onio. Pittsfield, Mass. Plainfield, N. J. Plattsburg, N. Y. Plymouth, Mass. Pontlac, Mich. Port Huron, Mich.	18,006 118,863	14 11	2		3 5				2	
Portland, Me	64, 720	46	i		ı]
Portland, Oreg	308, 399	88	3		1 6		8		11	1
Portsmouth, N. H	11,730 29,356	16			2 3		3			
Portland, Me. Portland, Oreg. Portsmouth, N. H. Portsmouth, Ohio. Portsmouth, Va. Poughkenerie, N. V.		36	5		1		i		1	
Poughkeepsie, N. Y	30, 786	ĭŏ			l <u>.</u>				2	
Providence, R. I	259, 895	112	23		23 2	3	12	1		1
Ouiney Mass	56, 084	15			2		4		2	
Racine. Wis	39,022 47,465 10,361	10	2		19		11			
Rahway, N. J	10, 361	1								
Raleigh, N. C.	20,274	10					1			1
Rediands, Calli	14,573 15,514	3	1		2 12				1	
Richmond, Ind	25, 080	12	6	1	14				1	
Richmond, Va	25, 080 158, 702	58	4		53		2		12	1
Riverside, Calif	20, 496	6			1					
Rochester N V	46, 282 264, 714	82	25	····i	116		7		13	····i
Rockford, Ill	264, 714 56, 739 29, 452	18					10		2	
Portsmouth, Va Poughkeepsie, N. Y Providence, R. I Prueblo, Colo Quincy, Mass Racine, Wis. Rainey, N. J Raleigh, N. C Redlands, Calif Reno, Nev Richmond, Ind Richmond, Ind Richmond, Va Riverside, Calif Roanoke, Va Rochester, N. Y Rockford, Ill Rock Island, Ill Rock Island, Ill Rock Island, Ill Rock Island, Ill Sacramento, Calif St. Cloud, Minn St. Louis, Mo St. Louis, Mo St. Paul, Minn St. Paul, Minn	29, 452	8	1		25				1	
Rocky Mount, N. C	12,673	8			;-				1	• • • • •
Rutland. Vt.	15,607 15,038	5			1 2		····i		1	
Sacramento, Calif	68.984	26			21		i		i	
St. Cloud, Minn	68, 984 12, 013		1				ļ <u>.</u> .		ļī.	
St. Joseph, Mo	86, 498	34	1		473		4			
St. Louis, Mo. St. Paul, Minn.	768, 630 252, 465	206 60	91 21	6 3	473 21	6	26 4	1 3	42 8	1
Salem, Mass	252, 465 49, 346 21, 274		3	١،			4			:
						,			2	

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Mea	sles.		rlet er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Salina, Kans	12,470 121,623 17,616	1 28	2		i		1		i	i
San Bernardino, Calif	17,616 56,412 20,226	33	2	····i	2 4		1 2		3	2 2
Sanford, MeSan Francisco, Calif	20, 220 11, 217 471, 023	0 169	1 1 27	3	306	3	16		31	10
	15, 150 13, 839	6 8			8				3	····i
Sault Ste. Marie, Mich Savannah, Ga	14, 130 69, 250	3 57	····i		3		1		3	····· ₂
Santa Cruz, Call Saratoga Springs, N. Y. Sault Ste. Marie, Mich Savannah, Ga. Schenectady, N. Y. Sheboygan, Wis. Sioux City, Iowa. Sioux Falls S. Dak	69,250 103,774 28,907 58,568	15	3		18 13		6 9 3		2	1
Sioux Falls, S. Dak	16, 887 88, 618	12 27	2		5		1 4	i	3	2 2 2
South Bend, Ind Southbridge, Mass	70, 967 14 465	14 2 7			2		2		5	2
Sioux Fails, S. Dak Somerville, Mass. South Bend, Ind Southbridge, Mass. Spartanburg, S. C. Spokane, Wash Springfield, Ill Springfield, Mass. Springfield, Mo. Springfield, Ohio. Stamford Conn	21, 985 157, 656 62, 623	$\frac{7}{20}$	1		13		1			
Springfield, Mass	108, 668 41, 169	25 21	5	i	25		12		2	2
	52, 296 31, 810	13			$\begin{array}{c} 2\\14\end{array}$		2		7	
	11,823 28,259	11 10			4					.
Staunton, va Steubenville, Ohio Stillwater, Minn Superior, Wis Syracuse, N. Y. Tacoma, Wash.	1 10, 198 47, 167 158 559	1 14 50	2 2 5		52		16	1	4	·····
Tacoma, Wash	158, 559 117, 446 36, 610 67, 361	16	2		8		2		i	
Tiffin, Ohio	12,962	24 2			29 18		7			· · · · · · · · ·
Toledo, Ohio	202, 010 49, 538 14, 090	83 12 2	5 1		216 2 6		24		6 5	1
Trenton, N. J. Troy, N. Y.	113,974 78,094	54 25	5 2		i		4		6	5
Topeka, Kans. Traverse City, Mich. Trenton, N. J. Troy, N. Y. Tucson, Ariz. Vallejo, Calif.	17, 324 13, 803	25 4	2							
Valicouver, Wash	13, 805 15, 954 34, 015	16	1 . 4 1		 2		9			i
Virginia, Minn Waco, Tex Walla Walla, Wash Waltham, Mass Washington, D. C. Watertown, Mass Watertown, N. Y Wausau, Wis Westfield, Mass West Hoboken, N. J. West New York N. I	26,067 31,011	13	i	₁			1 2		₂	i
Washington, D. C. Watertown, Mass.	369, 282 15, 188 30, 404	141 4	12	1	1		19 5		$\begin{array}{c}2\\27\\1\end{array}$	7
Wausau, Wis	30, 404 19, 666 18, 769	5 6			33 2			1	i	· · · · · · ·
West Hoboken, N. J. West New York, N. J.	44, 386 19, 613	5	3	1	1 7				1	i 1
West Orange, N. J. Wheeling, W. Va.	13,964 43,657	1 31	1 3		2 43	i				1 2
Wilmington, Del	73, 597 95, 369 10, 812	41 37 4	1 4		25 3		1		1	3
West Hooden, N. J. West Orange, N. J. West Orange, N. J. Wheeling, W. Va. Wichita, Kans Wilmington, Del. Winchester, Mass Winona, Minn Winston-Salem, N. C. Winthron Mass	10, 812 1 18, 583 33, 136	5 15			8				6	1 1
Wohurn Moss	13, 105 16, 076	2 8]	8		3			i
Worcester, Mass Yakima, Wash Yonkers, N. Y	166, 106 22, 053 103, 066	88 26	3 4	i	27 23	i	15 4 1		2	<u>5</u> 8
Zanesville, Ohio.	31,320	20		1	1	1	3		1	2

¹ Population Apr. 15, 1910.

FOREIGN AND INSULAR.

PLAGUE ON VESSEL.

Steamship "Alps Maru"-Port of London. ·

A case of plague was reported February 28, 1920, at the port of London, England, occurring in a member of the crew of the steamship Alps Maru. The case developed six days after arrival of the vessel. The Alps Maru left Yokohama, Japan, December 3, 1919, for Hamburg, and was reported at Suez, Egypt, January 21, 1920.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

	Feb. 21-	-29, 1920.	Remain- ing under
Diesase.	New cases.	Deaths.	treat- ment
Bronchopneumonia Cerebrospinal meningitis.	15 4	6	17
Chicken pox. Influenza Leprosy	23	6	27 10
Malaria. Measles. Paratyphoid fever.	1 21		2 22 69
Pneumonia. Scarlet fever	2	2	5
Smallpox Typhoid fever		1	9 8 21

¹ From abroad, 6.

ITALY.

Lethargic Encephalitis.

Lethargic encephalitis has been reported in Italy as follows: Province of Genoa, February 2 to 8, 1920, 13 cases; Leghorn, January 28 to February 23, 6 cases; Trieste, February 8 to 14, 1 fatal case.

LUXEMBURG.

Lethargic Encephalitis.

During the period February 1 to 15, 1920, four cases of lethargic encephalitis were notified in the Grand Duchy of Luxemburg.

² From the interior. 11.

² From the interior, 9.

SPAIN.

Lethargic Encephalitis-Barcelona.

Information dated March 8, 1920, shows the occurrence of several cases of lethargic encephalitis at Barcelona, Spain.

INFLUENZA.

The following information was taken from reports received during the week ended March 26, 1920:

Place.	Date.	Cases.	Deaths.	Remarks.
Arabia:				
Aden	Jan. 28–Feb. 3		1	
Belgium: Ghent	Feb. 8-21	162	11	
Bolivia:				
La Paz Brazil:	Feb. 1-7	5		
Santos	Dec. 29-Jan. 4		1	
Manitoba— Winnipeg	Feb. 2-21	155	30	-
Nova Scotia—			50	
Halifax Ontario—	Feb. 29-Mar. 6			
Fort William and Port Arthur.	do	11	5	
Hamilton Toronto	Mar. 7-13 Feb. 29-Mar. 6	78	26	Acute pneumonia; five deaths.
Windsor	do		1	Active phetimonia, five deaths.
Quebec— Montreal	do			Present.
Saskatchewan—				
Regina Saskatoon	Feb. 22-28 Feb. 29-Mar. 6	36 12	2 7	
Canary Islands: Santa Cruz de Teneriffe	Feb. 1-14			Present. Mild. Epidemic in va- rious parts of the islands.
Ceylon: Colombo	Jan. 11-31		41	-
Chi n a: Hankow	Jan. 25-31	•		Present.
Costa Rica: Port Limon	Feb. 22-Mar. 6	l .	17	1 10301101
Cuba:				
Cienfuegos Egypt:	Feb. 22-Mar. 6		4	
Alexandria	Feb. 5-11	47	5	
MarseilleSt. Etjenne	Jan. 1-31 Feb. 1-15	15	137	
Great Britain: England and Wales			•	In 06 great towns . Denulation
-			161	In 96 great towns. Population, aggregate, 16,577,344.
London			37	Greater London and Outer Ring, 81.
Scotland	do		3	In 16 principal towns. With com- plications, 2 deaths. Popula- tion, 2,416,900.
India:	T 07 TI-1 7			
KarachiMadras	Jan. 25–Feb. 7 Feb. 1–7	29	29 9	,
Rangoon	Jan. 11-24		27	*
Japan: Nagoya	Feb. 8-14		25	
Mexico:			(ت	
Guayamas Saltillo.	Feb. 1-20 Feb. 29-Mar. 6		6	Present.
Tampico	Feb. 23-29		13	
Vera Cruz New Zealand:	Mar. 2-8		2	
Dunedin	Jan. 13-19	7		
Norway: Christiania	Feb. 8-14	 	. 3	
Spain: Tarragona	•			Buggant
1 21 1 22 OH2	Feb. 1-7			Present.

Reports Received During Week Ended Mar. 26, 1920.1

CHOLBRA.

	Γ _	I _	l	
Place.	Date.	Cases.	Deaths.	Remarks.
India				Dec. 21-27, 1919: Deaths, 2,243,
Bombay	Jan. 11-24	2	2	, , , , , , , , , , , , , , , , , , , ,
Calcutta	Jan. 11-31	62	62	
Madras	Jan. 11-Feb. 7	9	1	
RangoonStraits Settlements:	Jan. 11–17	1	1	
Singapore	Jan. 11-17	2	2	
	PLA	GUE.		beautiful and a second
Brazil:				
Bahia	Jan. 25-31	1	1	
Ceylon:	į.			
_ Colombo	Jan. 18–31	5		
Egypt				Jan. 1-Feb. 19, 1920: Cases, 46
Cities—	E-h 10			deaths, 32.
Port Said	Feb. 13 Feb. 1-15	1	1	
Suez Province—	Feb. 1-15	1	1	
Assiout	Feb. 7-17	20	7	10 pneumonic.
India	160.1-11	20		Jan. 11-24, 1920; Cases, 6,311;
Bombay	Jan. 11-24	3	2	deaths, 5,047.
Calcutta	Jan. 25-31	1	1	
Madras Presidency	Jan. 25-Feb. 7	1,609	1,177	· ·
_ Madras	Jan. 11-24	2	2	
Rangoon	Jan. 11-24	43	40	=
Java:				
East Java				Jan. 1-7, 1920: Cases, 9; deaths, 9.
Surabaya	Jan. 1-7	9	9	
Peru:	Jan. 26-Feb. 1	2	3	Including Salaverry.
Trujillo Straits Settlements:	Jan. 20-Feb. 1	- 4	°	menading balaverry.
Singapore	Jan. 11-17		1	
On vessel:	Jan. 11-11		-	
S. S. Alps Maru	Feb. 28	1		At port of London, England, vessel left Yokohama, Japan, Dec. 3, 1919. Arrived at Suez, Jan. 21, 1920. Destination, Hamburg.
	SMAL	LPOX.		
Bolivia: La Paz	Feb. 1-7	2	8	
Brazil:	1	"		
Bahia	Jan. 18-31	102	77	
Santos	Jan. 5-18		2	_
Canada:		}		-
New Brunswick-				
St. John		_		
NT C 42 -	Feb. 29-Mar. 6	7		
Nova Scotia—	ŀ	-		
Nova Scotia— Sydney	Feb. 29-Mar. 6 Feb. 20-Mar. 6	7		Fab 98 May 6 1000; Casas 1500
Nova Scotia— Sydney Ontario	Feb. 20-Mar. 6	4		Feb. 28-Mar. 6, 1920: Cases, 150
Nova Scotia— Sydney Ontario Hamilton	Feb. 20-Mar. 6	4		Feb. 28-Mar. 6, 1920: Cases, 150; deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney Ontario Hamilton Kingston	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6	4 5 5	2	Feb. 28-Mar. 6, 1920: Cases, 150 deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney Ontario	Feb. 20-Mar. 6	4 5 5 11	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney Ontario Hamilton Kingston	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28	4 5 5	2	Feb. 28-Mar. 6, 1920: Cases, 150; deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney	Feb. 20-Mar. 6 Mar. 7-13. Feb 29-Mar. 6 Feb. 22-Mar. 6	4 5 5 11	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney. Ontario. Hamilton Kingston. Peterborough Quebec— Bonaventure and Gaspe Montreal. Ceylon:	Feb. 20-Mar. 6 Mar. 7-13. Feb. 29-Mar. 6. Feb. 22-Mar. 6 Feb. 1-28. Feb. 29-Mar. 6	5 5 5 11 21 8	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28	5 5 11 21	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney. Ontario. Hamilton Kingston. Peterborough Quebec— Bonaventure and Gaspe Montreal Ceylon: Colombo. China:	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28 Feb. 29-Mar. 6 Jan. 11-31	5 5 5 11 21 8	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney. Ontario. Hamilton Kingston. Peterborough Quebec— Bonaventure and Gaspe Montreal Ceylon: Colombo China: Chungking.	Feb. 20-Mar. 6 Mar. 7-13. Feb. 29-Mar. 6. Feb. 22-Mar. 6 Feb. 1-28. Feb. 29-Mar. 6	5 5 5 11 21 8	2	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney Ontario. Hamilton Kingston. Peterborough Quebec— Bonaventure and Gaspe Montreal Coylon: Colombo China: Chungking. Egypt:	Feb. 20-Mar. 6 Mar. 7-13. Feb. 29-Mar. 6 Feb. 1-28 Feb. 1-28 Fob. 29-Mar. 6 Jan. 11-31 Jan. 11-17	5 5 11 21 8		deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney. Ontario. Hamilton Kingston. Peterborough Quebec— Bonaventure and Gaspe Montreal. Ceylon: Colombo. China: Chungking. Egypt: Alexandria.	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28 Feb. 29-Mar. 6 Jan. 11-31	5 5 5 11 21 8	2	deaths, 2. In 28 counties, 37 localities. Counties. Present.
Nova Scotia— Sydney	Feb. 20-Mar. 6 Mar. 7-13 Feb 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28 Fob. 29-Mar. 6 Jan. 11-31 Jan. 11-17 Feb. 5-11	4 5 5 11 21 8 3	9	deaths, 2. In 28 counties, 37 localities.
Nova Scotia— Sydney	Feb. 20-Mar. 6 Mar. 7-13 Feb 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28 Feb. 29-Mar. 6 Jan. 11-31 Jan. 11-17. Jan. 11-24 Jan. 11-24 Jan. 11-17.	4 5 5 5 11 21 8 3		deaths, 2. In 28 counties, 37 localities. Counties. Present.
Nova Scotia— Sydney Sydney Ontario Hamiliton Kingston Peterborough. Quebec Bonaventure and Gaspe Montreal. Ceylon: Colombo. China: Chungking. Egypt: Alexandria. India. Bombay. Caleutta.	Feb. 20-Mar. 6 Mar. 7-13 Feb 29-Mar. 6 Feb. 22-Mar. 6 Feb. 1-28 Feb. 29-Mar. 6 Jan. 11-31 Jan. 11-17. Jan. 11-24 Jan. 11-24 Jan. 11-17.	5 5 5 11 21 8 3 3 26 27 658 16	9 8 571 6	Present.
Nova Scotia— Sydney Sydney Ontario Hamiliton Kingston Peterborough Quebec— Bonaventure and Gaspe Montreal. Colombo China: Chungking. Egypt: Alexandria. India.	Feb. 20-Mar. 6 Mar. 7-13 Feb. 29-Mar. 6 Feb. 1-28 Feb. 29-Mar. 6 Jan. 11-31 Jan. 11-17 Feb. 5-11 Jan. 11-24	21 8 3 26 27 658	9 8 571	deaths, 2. In 28 counties, 37 localities. Counties. Present.

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

Reports Received During Week Ended Mar. 26, 1920—Continued.

SMALLPOX-Continued.

•		r		T
Place.	Date.	Cases.	Deaths.	Remarks.
Italy:				
Messina Naples Japan:	Jan. 26-Feb. 8 Feb. 9-15	11 5	5	Province, 35 cases, including San Fratello 5.
Nagasaki Taiwan	Feb. 2-8 Jan. 10-31	1 151	1 39	
Java: East Java	Jan. 1-7			Jan. 1-7, 1920: Cases, 1.
Surabaya Mesopotamia: Bagdad	Jan. 1-7 Jan. 10-16	3		
Mexico: Salina Cruz	Feb. 1-15	6		
Tehuantepec Newfoundland:	do	18		
St. Johns Portuguese East Africa	Feb. 28-Mar. 5	1		At four other localities. In interior, Dec. 28, 1919-Jan. 31,
Towns— Chinde Inhambane	Dec. 28-Jan. 25 Jan. 4-17	21 3		1920.
Quelimane	Jan. 4-31	12		
Vladivostok Spain: Valencia	Dec. 19–31 Feb. 15–21	17	3	
Valencia Vigo Tunis:	Jan. 25-31		6	
Tunis Turkey:	Feb. 16–22	2	1	
Constantinople	Feb. 18–24	5	3	
	TYPHUS	FEVE	R.	
Bolivia:				
La Paz Brazil:	Feb. 1-7	4	2	
Ceara	Jan. 4–10 Feb. 5–11	1	2	,
Japan: Nagasaki	Feb. 2-8	1		
Siberia: Vladivostok	Dec. 25-31	23	13	
Turkey: Constantinople	Feb. 8-14	25	1	Chiefly in Russian refugees.

Reports Received from Dec. 27, 1919, to Mar. 19, 1920. CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:	Nov. 4-17		2	
Chosen (Korea)	Nov. 4-17		2	Oct. 20-Nov. 16, 1919: Cases.
Chemulpo	Oct. 1-31	6	4	3,525; deaths, 3,144. Aug. 15-
Fusan	do	34	30	Nov. 16, 1919: Cases, 15,192;
Provinces—		ì	l	deaths, 9,823.
Keiki	Aug. 15-Nov. 16	224	135	, ,
Kogen	do	64	38	
Kokai	do	4,015	2,770	
North Chusei	do	1	1	
North Heian	do	3,196	2,434	
North Kankyo	do	497	275	
North Keisho	do	63	35	
North Zenra	do	1,326	692	
South Chusei	do	930	590	
South Heian	do	3,031	1,858	l
South Kankyo	do	870	551	
South Keisho	do	318	156	
South Zenra	do	657	288	

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued.

CHOLERA-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:	_			
Saloniki	Oct. 10	1	• • • • • • • • • • • • • • • • • • •	
India	.,,,.,			Oct. 19-Dec. 20, 1919: Deaths
Bombay	Nov. 2-8	1	1	21,145.
Calcutta	Oct. 26-Dec. 27	181	166	
Do	Dec. 28-Jan. 3	11	9	
Madras	Nov. 23-Dec. 27	14	5	
Do	Dec. 28-Jan. 24	7	5	
Rangoon	Nov. 30-Dec. 27	12	9	
Ďo.	Dec. 28-Jan. 3	1	1	
Indo-China:	Oct. 27-Nov. 23	5	4	
Saigon	Oct. 21-NOV. 23		-	
apan: Kobe	Nov. 24-30	2		
Toiwan	NOV. 24-30			For ontire island, Oct. 00 Man
Taiwan Tokyo	Nov. 10-20	·····i	i	For entire island: Oct. 22-Nov
ava:	NOV. 10-20		-	30, 1919: Cases, 651; deaths, 385
East Java				Oot 5 11 1010, One see 1 death
East Java				Oct. 5-11, 1919: One case, 1 death At Pasoeroean.
West Torre				
West Java	Nov. 5-Dec. 25	17	· · · · · · · · · · · · ·	Nov. 5-Dec. 25, 1919: Cases, 17.
Batavia	Nov. 5-Dec. 25	1,		
Philippine Islands:	Mars 0 Dec 07	~	10	
Manila	Nov. 2-Dec. 27	20	10	Now 0 Dec 07 1010; G
Provinces	Mary O Day 07			Nov. 2-Dec. 27, 1919: Cases, 1,574
Albay	Nov. 2-Dec. 27	339	240	deaths, 1,151.
Ambos Camarines	Nov. 2-Dec. 20 Nov. 2-Dec. 27	66	34	
Antique	Nov. 2-Dec. 27	160	113	
BatangasBohol	do	39	28	
Bonol	do	34	27	
Cagayan	Nov. 3-15	35	20	•
Capiz	Nov. 2-8	6	.5	
Cavite	Nov. 2-Dec. 6	25	16	
Cebu	Nov. 2-Dec. 20	23	14	
DavaoIlocos Notre	Nov. 9-15	6	4	
llocos Notre	Nov. 2-29	42	40	
Ilocos Sur	Nov. 2-22	18	15	
Iloilo		55	33	
Isabela	Nov. 2-Dec. 13	167	77	
Laguna	Nov. 2-Dec. 20	23	17	
Mindoro	Nov. 2-Dec. 6	81	30	
Mountain	Nov. 2-Dec. 13 Nov. 2-Dec. 13 Nov. 2-Dec. 20 Nov. 2-Dec. 6 Nov. 2-Dec. 13 Nov. 2-Dec. 27	6	4	
Occidental Negros	Nov. 2-Dec. 27	100	53	
Pangasinan	NOV. 20-Dec. 20	60	46	
Rizal	do	41	15	
Sorsogon	Nov. 2-Dec. 13	208	139	
Tarlac Tayabas	Nov. 2-22	11	11	
Tayabas	Nov. 2-Dec. 27	60	35	
Union	Nov. 9-15	5	5	
- Provinces	-4:			Dec. 28, 1919-Feb. 7, 1920: Cases
Albay	Dec. 28-Feb. 7	30	17	635; deaths, 412.
Ambos Camarines	do	156	99	
Antique	go	191	42	
Batangas	do	19	12	
Cavite	Jan. 11-17	1	1 2	
Iloilo	Dec. 28-Jan. 3	9	2	
Isabela	Jan. 11-17	6	3	
Laguna	Dec. 28-Jan. 3	2	2	
Mindoro	Jan. 4-24 Dec. 28-Jan. 10	24	11	
Mountain	Dec. 28-Jan. 10	11	6	
Occidental Negros	Jan. 4-17	21	19	
Palawan	Jan. 11-Feb. 7	33	19	
Pangasinan	Dec. 28-Jan. 3	1		
Palawan Pangasinan Rizal	Feb. 1-7	3		
Samar	Jan. 4-24	44	30	
Samar Sorsogon	do	51	40	•
Tayabas	do	23	19	
Poland:		1	1	The same of the sa
Garwolin				Present in November, 1919.
Kowal				Do.
U farri				Do.
		i .	1	
Russia:		ł.		
Russia: Novorossisk	Nov. 8-11	3		
Russia: NovorossiskOdessa	Nov. 8-11 Oct. 25-Nov. 7	3 93		
Russia: Novorossisk	Nov. 8-11 Oct. 25-Nov. 7 Dec. 7-27		57	Oct. 5-Dec. 15, 1919: Death

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.			
Straits Settlements: Singapore	Oct. 5-Dec. 27	15	14				
Do	Dec. 28-Jan. 10	2					
Sumatra: Deli	Oct. 1-31	1	1				
PLAGUE.							
Argentina:							
Rosario Brazil:	Dec. 1-31		7				
BahiaPorto Alegre	Nov. 9-15	1	1 3				
Rio de Janeiro	Nov. 1-30 Nov. 2-Dec. 27	9	4				
Do	Jan. 11-17	1					
Kisumu	Sept. 28-Nov. 1	6	6	Dec. 14-20, 1919: Present in vicinity.			
Ceylon: Colombo	Oct. 26-Dec. 27	36	35				
Chile:	Dec. 28-Jan. 10	. 15	4				
Antofagasta	Dec. 8-14	1					
Hongkong	Dec. 7-13	1]	•			
Ecuador: Guayaquil	Nov. 1-31	2 8					
Egypt	Jan. 1-31	8		Jan. 1-Dec. 25, 1919: Cases, 867;			
Cities— Alexandria	Dec. 3	1	1	deaths, 469. From vessel Rachid Pacha.			
Province— Assiout	Nov. 15-21	30	17	·			
Do	Nov. 15–21 Jan. 13–Feb. 4	9	9				
Greece: Saloniki	Oct. 6-Dec. 21	19	7				
Kaloha	Feb. 23	1	1	0.4.40.70			
IndiaBombay	Oct. 19-Dec. 27	6	6	Oct. 19-Dec. 27, 1919: Cases, 31,542; deaths, 23,443. Dec. 28,			
Do	Jan. 4-10 Nov. 9-29	1 3	2	1919-Jan. 10, 1920: Cases, 6,701; deaths, 5,139.			
Do	Jan. 11-17	2		4040115, 0,100.			
Madras Presidency Do	Nov. 9-Dec. 27 Dec. 28-Jan. 24	$1,068 \\ 577$	704 395				
RangoonDo	Nov. 2-Dec. 27 Dec. 28-Jan. 10	29 15	27 15	Oct. 19-Nov. 1, 1919: Cases, 10; deaths, 7.			
Indo-China: Saigon	Oct. 27-Dec. 7	11	9				
Java: East Java	Oct. 21-Dec. 7	11	,	Cant 90 Dec 21 1010: Care			
				Sept. 28-Dec. 31, 1919: Cases, 1,500, deaths, 1,499. Surabaya			
Mesopotamia: Bagdad	Jan. 3-9	1	. 1	" Residency.			
Peru: Callao	Nov. 1-30		3				
PaitaSalaverry (Trujillo)	Dec. 29-Jan. 17 Nov. 23-Dec. 21	23 9	17 1	December of the second			
Do	Dec. 29-Jan. 24	17	5	Present in surrounding country. And in vicinity.			
Senegal: Dakar	Nov. 1-30	-	146	Including Dakar and vicinity.			
Bangkok	Dec. 14-20	4	2				
Straits Settlements: Singapore	Oct. 26-Dec. 27	7 2	6				
Syria: Beirut	Jan. 4–10 Dec. 22	29	•••••				
Turkey:				Decemb Dog 41 4040 37 44			
Constantinople	Nov. 14-Dec. 20	11		Present Dec. 11, 1919. Nov. 14- 20, 1919: Present in vicinity.			
On vessel: S. S. Kaisar-i-Hind	Nov. 28	. 3		At Port Said, Egypt. From			
		÷		Bombay, Nov. 15, for London.			

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued. SMALLPOX.

Algeria: Department— Algiers Do Constantine Do				
Department— Algiers Do Constantine		1		
Do Constantine				
Constantine		65		
Constantine Do	. Jan. 1-20	55		
Do	Nov. 11-Dec. 31	15		
^	. Jan. 1-20	32		
. Oran	. Nov. 11-Dec. 31	90 25		
Do South Territory		5		
Arabia:	Dec. 24-30	1	1 1	
Aden Do	Jan. 6-20		3	
Belgium: Brussels	Dec. 28-Jan. 3		1	
Bolivia:	June 29-Dec. 27		216	Dec 20 1010 Tem- 00 1010, Gen-
La Paz Do	Dec. 28-Jan. 31		22	86; deaths. 44. Dec. 14-2
D 11.		1	1	Dec. 29, 1918-June 28, 1919: Case 86; deaths, 44. Dec. 14-2 1919: Cases, 7; deaths, 5.
Brazil: Bahia	Oct. 26-Nov. 22 Dec. 28-Jan. 17	1,704	1,022	
Do	Dec. 28-Jan. 17	311	237	•
Para	Feb. 8-14	100		
Pernambuco		123 82	9	
Do Rio de Janeiro	Sept 28-Dec 27	429	119	
Do	Sept. 28-Dec. 27 Dec. 28-Jan. 17	420	13	
Santos	Nov. 24-30		ĭ	
Canada:			_	
British Columbia	37 00 7			•
Vancouver	. Nov. 30-Dec. 6			
Do	. Jan. 4–17	1		
Manitoba— Winnipeg	. Jan. 11-17	2		
Nova Scotia— Halifax	. Dec. 21-27	2		
Do	Inn 4-Feb 14	4		,
Sydney	Dec 7-13	i		
Sydney Do	Jan. 4-Feb. 14 Dec. 7-13 Dec. 28-Feb. 28	16		
Counties-	1 2001 20 2 201 20111			
Cumberland	. Dec. 14-20	1	1	Present.
Inverness	do			Do.
Pictou	.]do			Do.
OntarioFort William and Port				Nov. 1-29, 1919: Cases, 1,6' Nov. 30-Dec. 6, 1919: Cases, 12 in 45 localities, exclusive Dysart and Toronto. Dec. 31, 1919: Cases, 1,414; deaths, Dec. 28, 1919-Feb. 28, 192 Cases, 1,847; deaths, 30.
Arthur		5		owood, i,ori, death, ou.
Gloucester County		l		OctNov., 1919: Cases, 3.
Hamilton	. Dec. 14-20	3		, , , , , , , , , , , , , , , , , , , ,
Do	Jan. 4-Feb. 21 Dec. 21-27	23		
Kingston	. Dec. 21-27	1		
Ďо	Dec. 28-Feb. 14	6		
North Bay		4		
Ottawa		1		
Do Peterborough		16		
Do	Dec. 28-Jan. 31	27		
Prescott	Jan. 4-10	i		
Sault Ste. Marie	Dec. 7-27	î		
Do	Dec. 28-Jan. 3	1		
Toronto		727		
Το '	. Dec. 28-Feb. 28	773	5	
Do	Dec. 14-27	2		
Windsor Prince Edward Island—	Fab. 14-20			In one femily
Windsor	Feb. 14-20	3		In one family.
Windsor Prince Edward Island— Summerside Quebec—	Jan. 1-31	3		
Windsor Prince Edward Island— Summerside	Jan. 1-31	_		In one family. Counties.
Windsor Prince Edward Island— Summerside Quebec— Bonaventure and Gaspe Montreal Do	Jan. 1-31 Dec. 7-27 Jan. 18-Feb. 20	7 3 6		
Windsor. Prince Edward Island— Summerside. Quebec— Bonaventure and Gaspe Montreal. Do	Jan. 1-31 Dec. 7-27 Jan. 18-Feb. 20 Dec. 7-27	7 3 6 4		
Windsor Prince Edward Island— Summerside Quebec— Bonaventure and Gaspe Montreal Do Quebec Do	Jan. 1-31 Dec. 7-27 Jan. 18-Feb. 20 Dec. 7-27	7 3 6		
Windsor. Prince Edward Island— Summerside. Quebec— Bonaventure and Gaspe Montreal. Do	Jan. 1-31. Dec. 7-27 Jan. 18-Feb. 20. Dec. 7-27. Jan. 4-Feb. 28	7 3 6 4		

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued. SMALLPOX—Continued.

	,	-Conti		
Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:	1			
Colombo	Nov. 16-Dec. 13 Dec. 28-Jan. 3	10	9	
China:	1	_		
Amoy Do	Nov. 4-Dec. 22 Dec. 30-Jan. 5	1		Present. Dec. 22: Four deaths.
Canton	Nov. 2-Dec. 27			Present. Do.
Chungsha	Jan. 4-10	5		
Chungking Do	Dec 28-Jan 10	I .		Do. Do.
Foochow	NOV. 10-1200. 27.			Do. Do.
Mukden	Jan. 18-24.			Do.
Nanking Do	Dec. 6-27 Dec. 28-Jan. 24			Do. Do.
Do Shanghai Chosen (Korea):	Dec. 22-28	2		
Chemulpo	Dec. 1-31	1	1	
Fusan Seoul	Oct. 1-Dec. 31	12 19	1 4	
Colombia:	ł.	50		
Barran quilla Do	Nov. 16-Dec. 20 Jan. 11-Feb. 14	50	3	Stated to be epidemic, Jan. 18-24, 1920. About 200 cases, Feb.
		1		1920. About 200 cases, Feb. 1-14.
Cuba: Habana	Jan. 31	4		Children living in same house.
Egypt:				Children hving in same nouse.
Alexandria	Nov. 12-Dec. 16 Jan. 1-28	32	22 5	
Cairo Port Said	Jan. 1–28. Oct. 1–Dec. 23do	64 13	31 6	
Finland:		1.0	"	
Provinces	Nov. 1-15	·····i		July 16-Dec. 31, 1919: Cases, 83.
Nyland St. Michael	July 16-Dec. 15	29 7		
Tavastehus	July 16-Dec. 31	7		-
VasaViborg.	Dec. 1-31 July 16-Dec. 31	2 37		
France: Paris	Jan. 1-10	. 1	2	-
Germany				Oct. 5-15, 1919: Cases, 32. In addition to previously reported cases; Sept. 28-Dec. 6, 1919: Cases, 161 (exclusive of Prus-
		-		cases; Sept. 28-Dec. 6, 1919:
Prussia	Oct. 29-Nov. 29	1,100	323	Cases, 161 (exclusive of Prussia).
Greece:	l .			
Saloniki	Nov. 10-Dec. 28 Dec. 29-Feb. 1	26 37	26 29	In vicinity: Drama, 1 case; Zago-
				ritzani, 9 cases, 1 death; Serres, 1 case.
India Bombay	Oct. 12-Dec. 20	46		Oct. 19-Dec. 20, 1919: Deaths, 2,853.
Do	Dec. 28-Jan. 10	9	11 5	2,000.
CalcuttaDo	Dec. 28-Jan. 10 Oct. 26-Dec. 27 Dec. 28-Jan. 3 Dec. 21-27	186 124	260 106	
Karachi	Dec. 21–27 Jan. 18–24	6	2	
Madras	Nov. 2-Dec. 27 Dec. 28-Jan. 24	31	13	** * * *
DoRangoon	Dec. 28-Jan. 24 Oct. 19-Dec. 27	7 51	2 18	
DoIndo-China:	Dec. 28-Jan. 10	ĨĨ	6	
Saigon	Oct. 27-Nov. 23	2		, .
Italy: Genoa	Jan. 5-11	1		Province: Nov. 17-Dec. 28, 1919:
Leghorn	Jan. 4-10.	î		Cases 15 deaths 3 Ten 12-
Messina	Nov. 10-Dec. 28	55	8	18, 1920: Cases, 13. Province of Messina: Dec. 14-28, 1919: Cases, 68. Jan. 5-25, 1920: Cases, 85; 1 death.
Do	Dec. 29-Jan. 25 Oct. 1-Nov. 30	19 12	3 2	28, 1919: Cases, 68. Jan. 5-25, 1920: Cases, 85: 1 death.
Naples	Dec. 28-Jan. 25	8	12	
Palermo	Dec. 1-28	49	3 5	
Do Trieste	Dec. 29-Jan. 18 Jan. 3-10	22 2	1	
Turin.	Dec. 28-Jan. 4	ĩ		

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued.

SMALLPOX-Continued

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Kobe	Dec. 15-21	1	<u>.</u> .	
Taiwan	Nov. 1-31	36	7	Entire island.
Do	Jan. 1–10	9	7	
Java:				Samt 90 Day 10 1010 Game 94
East Java				Sept. 28-Dec. 18, 1919: Cases, 34.
Residency—	Oot 95 Dec 10	26		
Surabaya	Oct. 25-Dec. 18	20		Oct 17 Dec 25 1010: Cases 650:
West JavaBatavia	Oct. 17-Dec. 12	49	22	Oct. 17-Dec. 25, 1919: Cases, 659; deaths, 151. Jan. 2-8, 1920: Cases, 78; deaths, 10.
Do	Jan. 2-8	1	22	Casas 78: daaths 10
Mexico:	Jan. 2-0			Cases, 10, deaths, 10.
Acapulco	Nov. 9-15	2		,
Chihuahua	Dec. 21-27	3	3	
Do	Jan. 11-Feb. 15		ĭ	
Ciudad Juarez	Jan. 11-Feb. 7		2	
Guadalajara	Dec 1-31	i	_	
Do	Dec. 1-31	i		
Do	Nov. 16-Dec. 20	11		
San Luis Potosi	Dec. 14-20	l	1	
Do	Jan. 18-29	1	6	
Tehuantepec	Dec. 25–31	6		
Do	Jan. 1-31	34	1	
Newfoundland:		"	1	
St. Johns	Dec. 20-26	3	1	Dec. 13-26, at outports, 6 cases
	~ 000 -0	١	1	Present at 8 other localities.
Do	Dec. 27-Feb. 27	12	i	Outports Dec 27 1919-Feb 20
20	DOC. 21 1 CD. 21	1		Outports, Dec. 27, 1919-Feb. 20, 1920: Cases, 22. Present at
Panama:			l	other localities.
Colon	Dec. 15-21	1		001101 1000110100.
Portugal:	Dec. 10-21	_		
Lisbon	Nov. 30-Dec. 27	l	55	
Do	Dec. 28-Jan. 31		68	
Oporto	Dec. 7-20	5	5	
_ Do	Dec. 28-Jan. 3	ĭ	l ĭ	•
Portuguese East Africa:	Dec. 20 Jun. 5			
Lourenco Marques	Nov. 23-Dec. 20	9	1	Present in 5 districts Nov. 9-Dec
Districts—	Nov. 23-Dec. 20	9		20, 1919, with 56 reported cases.
Gaza	Dec. 7-13			Present.
Inhambane	do			Do.
Mozambique	do	1		Do.
Quelimane	do	1		Do.
Mozambique Quelimane Tete	do			Do.
Towns	ļ	ł		
Inhambane Mozambique	Dec. 7-27	7		
Mozambique	do	2		
Quelimane	do	4		="
Tete	do	1		
Spain:		l		
Barcelona	Nov. 6-Dec. 27	1	26	4
Do	Dec. 28-Feb. 3		26	
Bilbao	Nov. 1-Dec. 20	1	4	
Cadiz	Oct. 1-Nov. 30		6	
Valencia	Nov. 10-Dec. 27	39	9	
Do	Dec. 28-Feb. 14	56	6	
Vigo	Nov. 18-Dec. 27	14	 	
Do	Dec. 28-Jan. 3	2	2	Jan. 11-17, 1920: Present in
Sumatra:		1	1	vicinity.
Medan	Oct. 1-31	8		-
Tunis:			1	
Tunis	Dec. 23-29	1	1	
D0	Jan. 19-Feb. 8	4	2	
Turkey:		1	i .	
Constantinople	Nov. 9-Dec. 14	27		
Union of South Africa:		l	ı	
Johannesburg	Oct. 1-Dec. 31	21	1	•
On Vessei:		l	1	
S. S. Roggeveen		1	l	Vessel from Java; at Noumea,
==		1	1	New Caledonia. Case left at
		1	1	Noumea. Vessel arrived at
		l	ł	New Caledonia. Case left at Noumea. Vessel arrived at Sydney, Jan. 2, 1920. At Ponta Delgada, Azores, from
S. S. Sarcoxie	Dec. 23	1	1	At Ponta Delgada, Azores, from
				Rotterdam for New 10th.
S. S. Vestnorge	Jan. 15	1	1	Mild. At Kingston, Jamaica, from Philadelphia, via Nor-
-		İ	1	from Philadelphia, via Nor-
				folk.
			ļ	

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued. TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
		 		
Algeria: Departments—	_			
Algiers	Dec. 11-31 Jan. 11-20	2		Algiers (city), Jan. 1-31, 1920:
Do	Nov. 11-Dec. 31	2		Cases, 1; deaths, 1.
Do	Jan. 1-20	3		
Oran	Nov. 21-Dec. 11	5		
Austria	C4 77 14			Sept. 7-Nov. 22, 1919: Cases, 17.
ViennaBelgium:	Sept. 7-14	5		
Ghent Boliyia:	Jan. 25-31		2	
La Paz Do	June 29-Dec. 20 Jan. 4-24	30 6	31 2	Dec. 29, 1918-June 28, 1919 Deaths, 52.
Bulgaria:	Dec 01 21	١.	,	
Sofia Do	Dec. 21-31 Jan. 1-10	1 2	1	
Varna	Feb. 18	110		
Vratza	Jan. 25-31			Present. Also in vicinity.
Canada:		1		•
Ontario Province				Dec. 1-31, 1919: One case.
Antologasta	Nov. 17-Dec. 14	14		T. 10 Camb 90 1010: Gazan
Santiago		•••••		Jan. 12-Sept. 30, 1919: Cases 5,153; deaths, 1,023. Outbreak in October, 1918.
Valnaraiga	Nov. 9-Dec. 27	955	1 114	in October, 1918. Dec. 1-13, 1919: Cases, 700
Valparaiso Do	Dec. 28-Feb. 8	235	114	deaths, 18.
China:	200, 20 - 000, 000			
Antung	Nov. 3-Dec. 14	2		
Prague	Dec. 21-27	1		
Egypt:	N. 10 Dec 10		1 1	
Alexandria	Nov. 12-Dec. 16 Jan. 1-Feb. 4	27 27	6	
Cairo	Oct. 1-Dec. 23	113	46	
Port Said	Oct. 1-Dec. 16	3	ĭ	
Esthonia				Feb. 16, 1920: Cases, 7,500 to 8,000. Estimated mortality, 40
Narva	Feb. 16	2,500		8,000. Estimated mortality, 40
Reval	do	2,500		per cent.
Finland: Province—				
Viborg	July 16-31	2		
Germany				Oct. 5-Dec. 6, 1919: Cases, 10- civil population, 3; military, 4
Creek Britains		l	ł	repatriated soldiers, 3.
Great Britain: Belfast	Dec. 28-Jan. 3	1	1	
Glasgow	Nov. 30-Dec. 6	2	1	
Greece:	1101100 = 001 01111	_		
Cavalla	Nov. 17-Dec. 28	4		
Drama	Nov. 24-Dec. 28	6		
Saloniki Do	Oct. 6-Dec. 21 Dec. 28-Feb. 1	•••••	43 1	In vicinity, at Vertekep, 4 cases
Thassos Island	Dec. 22-28	11	-	Zagoritzani, 1.
Zihna	do	î		246011114111) 11
Hungary				Aug. 25-Sept. 14, 1919: Cases, 6.
Italy:	D 00 00	١.		
Brindisi Naples	Dec. 22-28 Jan. 19-25	1 2	1	
Trieste.	Dec 14-27	3	•	
Do	Dec. 14-27 Dec. 28-Feb. 3	5	2	
Venice	Nov. 17-Dec. 21	6	1	
Japan:	D 400			
Nagasaki	Dec. 1–28 Jan. 12–18	1	2 1	
Mexico:	Jan. 12–18	1	1	
Chihuahua	Dec. 21-27	2		
Do	Jan. 11-17		1	
Mexico City	Nov. 16-Dec. 27	1 2 9		
Do	Dec. 28-Feb. 7	132		
Saltillo	Nov. 1-30	2	1	Dungamb
San Luis Potosi Do	Dec. 14-27 Dec. 28-Feb. 29			Present. Do.
Paraguay: •	Dec. 20-1 ed. 29			<i>D</i> 0.
Asuncion	Nov. 30-Dec. 6	1		

Reports Received from Dec. 27, 1919, to Mar. 19, 1920—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru: Callao Cerro de Pasco. Poland Galicia (Province) Warsaw	Nov. 1-30	1	1 616 19	Nov. 1-30, 1919: Cases, 11,264 deaths, 942. Including Prov- ince of Posen. Oct. 1-31, 1919: Cases, 129; deaths, 12.
Portugal: Lisbon Oporto. Spain: Barcelona Bilbao Corunna Tunis: Tunis. Do Turkey: Constantinople	Dec. 22-31 Nov. 24-Dec. 7 Dec. 14-20	2 1	1	
	YELLOW	FEVE	R.	
Brazil: Bahia	Oct. 26-Nov. 8 Dec. 20 Dec. 7-27 Dec. 28-Jan. 31	1 1 4 1	2	The cases were sent from Opi- chen, vicinity of Muna. One death in case from Muna. To- tal to Dec. 27: Cases, 47; deaths, 21.