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OZONE IN VENTILATION.

Some Abstracts1 from the Literature on the Use of Ozone in Ventilation.

The Public Health Service is in receipt of correspondence from which it would appear that there is some interest in having collected references to the literature on the use of ozone in ventilation. For the information of persons interested in this subject, some abstracts from "Chemical Abstracts" are given below.

Ozone for ventilation: Powell, S. T., Metallurgical and Chemical Engineering, vol. 13, pp. 975-977, 1915.—Temperature and humidity have very little effect upon ozone production; the air velocity through the tubes has a direct bearing. High concentrations acting for long periods have great germicidal action, efficiency being reduced with reduction of concentration. Oxidizable odors may be completely removed. No detrimental effect of ozone on health was noticed.

An experiment with ozone as an adjunct to artificial ventilation: Feldner, A. M., Heating and Ventilating Magazine, March, 1915, pp. 35-36.—Ozone eliminated odors in hospital room containing patients who were being treated for gastro-enteritis.

The use of ozone for disinfection of air: Galli-Valerio, B., Central-blatt für Bakteriologie, Parasitenkunde und Infectionskrankheiten, Abt. 1, vol. 75, pp. 93-96, 1914.—Galli-Valerio gives results obtained by using O₃ to sterilize the air in a small room. The temperature was 15-16° C., and the humidity 60 to 15 per cent of saturation. Galli-Valerio exposed cultures of B. coli and M. pyogenes albus dried on pieces of glass for 5, 6, and 9 hours. No killing nor inhibition of the bacteria was obtained. The experiment was repeated and in each case the same results were obtained. This author warns against the use of ozonators to sterilize air in rooms.

Ozone an aid to factory ventilation: Greene, V. D., Engineering Magazine, vol. 49, p. 517, 1915.—A discussion of the subject, in which there are pointed out the advantages of ozone as an aid to ventilation and the possibility of still further extending its industrial uses.

Reports discredit ozone as room disinfectant and deodorizer: Steinmetz, C. P., Engineering Record, vol. 68, pp. 645-646; Journal of the

American Medical Association, Sept. 27, 1913.—Results of two investigations discredit claims of manufacturers.

The bactericidal, deodorizing, and physiologic properties of ozone: Jordan, E. O., Carlson, A. J., and Sawyer, W. A., Editorial, Journal of the American Medical Association, Sept. 27, 1913; Engineering News, vol. 70, pp. 1092, 1096–1098.—O₃ has no therapeutic value and is detrimental to living beings long before concentrations are reached which have any bactericidal or deodorizing value. Details of tests are given with methods of bacterial and odor studies.

Ozone: Buswell, A. M., Journal of Industrial and Engineering Chemistry, vol. 5, pp. 882-883. Editorial. *Idem.* Franklin, M. W. *Ibid.*, vol. 6, pp. 82-83.—A reply to Buswell.

An experiment with ozone in school ventilation: Bass, Frederick, American Journal of Public Health, vol. 3, pp. 1135-1137; cf. Chemical Abstracts, vol. 7, p. 2637.—Mental and physiological tests were made on a group of pupils receiving recirculated ozonized air, and comparisons made with a control. No appreciable differences were noted. Foul odors were not noticeable, but the odor of the ozone could be detected.

Ozone machines and public health: Franklin, M. W., Electrical World, vol. 63, p. 381; cf. Chemical Abstracts, vol. 8, p. 770.—O. is capable of destroying practically all species of disease germs when in the presence of moisture with sufficient duration of contact and when the O, is in adequate concentration. Concentrations suitable for ventilation result in a marked and consistent lessening in the atmospheric bacterial content. In no case, however, were the bacteria of any specific species experimented on, or was the exact amount of O₃ recorded. The results do not show complete sterilization. Experiments with moist and dried cultures show much less action on the latter than on the former, and experiments with various bacteria in H₂O show a greater susceptibility to O₃ on the parts of the disease germs than on those of nonpathogenic species. Therefore, it is probable that the tiny globules of mucus present the bacteria to the action of the O3 in the air in their most vulnerable conditions, and that when coughed or sneezed into the air they should be among those first destroyed. O₃ when intelligently applied is a valuable aid to ventilation.

The value of ozone in ventilation: Franklin, M. W., Gesundheits-Ingenieur, vol. 37, pp. 455-458; cf. Chemical Abstracts, vol. 8, p. 770.—O₃ can be recommended in all cases where organic odors are formed. It not only covers them but also destroys them effectually. In concentrations in which respiration is not interfered with, O₃ does not prevent the development of air bacteria to any degree.

Hygiene and the use of ozone for ventilation: Czaplewski, Metallurgical and Chemical Engineering, vol. 12, pp. 254-258.—Experiments

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by various authors show that in air purification, O_3 does not materially destroy bacteria or dust particles, but it removes odors. Low concentrations are agreeable, but high concentrations cause irritation of respiratory passages and have serious effects upon men and animals. A standard method of determination of O_3 is desirable. O_3 treatment should never be regarded as a substitute for good ventilation.

The bactericidal, deodorizing, and physiological effect of ozone: Wooldridge, F. V., Engineering News, vol. 71, pp. 778-779.—As a result of seven years' experience with O₃ Wooldridge concludes that (1) the bactericidal effect on air is very slight, except in concentrations impossible for life of man; (2) organic and some inorganic odors are destroyed; (3) physiological action in high concentrations is injurious; (4) it is useful in treatment of disease by raising resistance, not by sterilizing germs.

The value of ozone in ventilation: Franklin, M. W., Gesundheits-Ingenieur, vol. 37, pp. 155-158; Heating and Ventilating Magazine, vol. 10, Nos. 10 and 11; Chemisches Zentralblatt, 1914, 1, p. 1295; cf. Chemical Abstracts, vol. 8, p. 2017.—Ozonized air does not only disguise disagreeable odors of all kinds, but actually destroys odors such as originate from onions, garlic, and limburger cheese. Odors of putrefaction are likewise eliminated. Other odors eliminated are those from manure, skatóle, butyric acid, and tobacco. The CO of the air is oxidized to CO₂, the H₂S to S and H₂O. The S is further oxidized to H₂SO₄. As long as the concentrations are such as not to interfere with the vital function, the germicidal property is low. Results obtained in practice have been very satisfactory.

Ozone in ventilation: Olsen, J. C., and Ulrich, W. H., Journal of Industrial and Engineering Chemistry, vol. 6, pp. 619-623; Heating and Ventilating Magazine, 1914, pp. 15-19.—Experiments of Jordan and Carlson are not confirmed. Olsen and Ulrich show that O₃ reacts with H₂S, NH₃, etc., destroying odors, and that there are no reasons for assuming that O₃ is toxic in concentrations used in ventilation.

Air ozonization: Franklin, M. W., Journal of Industrial and Engineering Chemistry, vol. 6, pp. 850-855.—The subject is treated under three heads: (1) Ozone as an adjunct to ventilation; (2) Destruction of odors from industrial plants, such as glue factories, fertilizer plants, slaughterhouses, fish marts, etc.; (3) Adjunct to refrigeration in the practice of cold storage and food preservation.

The use of ozone in purifying air: Konrich, University of Berlin, Zeitschrift für Hygiene, vol. 73, pp. 443-482; Chemiker-Zeitung, vol. 37, p. 385.—O₃ in much higher concentration than it is to be found in the air has no effect upon dry bacteria or dust particles. It has a germicidal effect, however, upon moist bacteria. In suffi-

cient quantity it is a poisonous gas, causing death of laboratory animals. Concentrations which cause death are not deodorizing. Men subjected to its influence in a special apparatus experienced sleepiness, irritation of the mucous membranes, and a burning sensation in the eyes, at a time when the O₃ concentration was not greatly higher than that of the atmosphere. The odor of the air developed by the breathing was not destroyed.

The improvement of the air in bathing establishments with ozone: Von Kupffer, L. A., Gesundheits-Ingenieur, vol. 36, pp. 300-303.—Kupffer finds that O₃ in a concentration of about 0.1 mg. per cubic meter of air has an invigorating and purifying effect. Foreign odors are eliminated.

The use of ozone in ventilation: Von Kupffer, L. A., Gesundheits-Ingenieur, vol. 36, pp. 605-615.—Certain odors are quickly destroyed by O_3 . Ozone should be free from N oxides. Ozonization should not be resorted to without ventilation accompanying it. An ozonization plant requires little attention. Reports by different firms on the practical use of O_3 in deodorization are given. The results are favorable. A number of reports on the use of O_3 under normal conditions as an aid in ventilation are also favorable.

The use of ozone in ventilation from the hygienic standpoint: Czaplewski, Gesundheits-Ingenieur, vol. 36, pp. 565-586.—O3 is an extremely active gas. It acts better in a moist than in a dry atmosphere. It reacts energetically only in high concentrations. O3 in the air can not be relied upon to destroy bacteria on the walls of a room; neither does it destroy organic dust. Certain odors, however. are either diminished or eliminated altogether. In low concentrations O₂ appears to men as agreeable and invigorating and is entirely free from danger. In high concentrations it irritates the mucous membrane of the respiratory tract. The sensitiveness of people toward O, will vary. Care should be taken to employ only pure O. for ventilation purposes, and particularly to prevent the formation of N oxides. Two kinds of O₃ ventilation must be considered: (1) Ventilation with ozonized fresh air; (2) Ozonization of stagnant air. The first procedure is undoubtedly to be preferred. Ozonization of stagnant air is merely an emergency procedure and of very doubtful value. The concentration of O3 should be low enough to avoid complaints about irritation. High concentration should only be employed in the absence of people or in rooms which are used for short periods only.

The use of ozone in ventilation: Schmitz, E., Chemiker-Zeitung, vol. 37, pp. 384-385; Konrich, Ibid., p. 385.—A discussion.

Ventilation of railway tunnel by ozonated air: Anon., Electrical World, vol. 59, p. 626.—In the system of the Central London Railway, air is drawn through a continually moistened filter screen to

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remove dust, NH₃, SO₂, etc. The O₃ generator consists of 10 units, each comprising a thin mica plate with a sheet of metal gauze on each side. These are subjected to an alternating electromotive force of 5,000 volts, causing a large number of minute discharges, thus producing O₃. This is mixed with the main body of air and blown through ducts to outlets along the tunnel.

Increasing human efficiency by ozone: Radcliffe, W. H., Cassier's Magazine, vol. 41, p. 483.—An account of methods of ozonizing air for ventilation, and of some installations in practical use.

Present status of ozone with reference to air purification: Small, Ralph D., Journal of Industrial and Engineering Chemistry, vol. 2, pp. 534-537.—Ozone for air purification is made with generators which change direct to alternating current and then step up the voltage to 5,000-30,000, the higher figures being the more economical. If properly made, the apparatus does not produce appreciable amounts of NO. Modern machines require 40-250 watts per hour for operation. From 0.1 milligram to 2 milligrams per cubic meter is found to be the most suitable concentration for air purification.

Experiments in ozone ventilation: Erlandsen, A., and Schwarz, L., Staatliches Hygienisches Institut, Hamburg, Zeitschrift für Hygiene, vol. 67, pp. 391-428.—Ozone in concentration of 10-20 milligrams per cubic meter of air in the experimental chamber, was found to have no effect on the NH, content of the chamber. No nitrites or nitrates were formed, and traces of ozone were demonstrable 12 hours after the completion of the experiment. As tested by the sense of smell, small traces of NH, were masked by ozone in concentration of 20 milligrams per cubic meter. Similar results were obtained with H2S. Various odorous constituents of human exhalations were also tested—trimethylamine, butyric acid, valeric acid, indole, skatole—and it was found that their odors were masked by ozone in greater or less amounts, without any demonstrable destruction of the substances themselves. Ozone was found to have no effect in clearing the atmosphere of a room filled with tobacco smoke, though the odor of tobacco, if faint, could be masked. practical value of ozone as a method of ventilation seems to rest. therefore, not on any oxidizing and purifying property, but on its power of covering up offensive odors.

The action of ozone on air: Troy, M. O., Chemical Engineering, vol. 14, p. 321.—O₃ may well be used in the treatment of air for the destruction and removal of noxious odors, organisms, and emanations. Sixty liters of air containing 13 milligrams of ozone will disinfect 324 cubic meters of air; but in most cases it will depend on the condition of purity of the air. Experiments showed that germs failed to grow in air which contained 0.6 to 1 per cent ozone by volume, but for deep-seated germs about 5 per cent is needed.

MILK AND MEAT IN THE FOOD SUPPLY.

Recent studies in nutrition have made clearer the importance of the mineral elements and the vitamines in the diet. In a recent report the committee on food and nutrition of the National Research Council discusses this matter, together with the question of the relative efficiency of the milch cow and the beef animal (in the production of milk and meat) in the conservation of proteins, fats, and carbohydrates and in the gathering and preparation of mineral elements and vitamines.

The following is contained in the report of the committee:

It has long been known, but perhaps never sufficiently emphasized, that the milch cow returns in the human food which she yields a very much larger share of the protein and energy of the food she consumes than does the beef animal. Dr. Armsby, probably the leading expert of this country on animal nutrition, has estimated (Science, Aug. 17, 1917) that of the energy of grain used in feeding the animal there is recovered for human consumption about 18 per cent in milk and only about $3\frac{1}{2}$ per cent in beef.

In an official report on the food supply of the United Kingdom it is estimated that to produce 100 calories of human food in the form of milk from a good cow required animal food of 2.9 pounds starch equivalent; 100 calories of milk from a poor cow is estimated to require the consumption of 4.7 pounds; while to produce 100 calories of beef from a steer 2½ years old it is estimated that 9 pounds of starch equivalent in feed are required.

Stated in terms comparable with those used by Dr. Armsby, this would mean that the good milch cow returns 20 per cent of the energy value of what she consumes, the poor milch cow 12 per cent, and the good beef steer only 6 per cent. Although this estimate is more favorable to the beef steer than is that of Dr. Armsby, yet even in this estimate it will be seen that the poor cow is twice as efficient and the good milch cow more than three times as efficient as the beef steer in the conservation of energy in the food supply.

Considering the whole length of life of the animal, Prof. Wood, the leading English agricultural expert, estimates that the eow returns in milk, veal, and beef one-twelfth as much food as she has consumed, while the beef steer returns only one sixty-fourth. In other words, the cow is five times as efficient as the beef steer as a food producer when the whole life cycle of the animal is considered. Similarly it has been estimated by Cooper and Spillman (Farmers' Bulletin, No. 877, 1917, U. S. Department of Agriculture) that the crops grown on a given area may be expected to yield from four to five times as much protein and energy for human consumption when fed to dairy cows as when used for beef production. As Wood has

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very strikingly shown, the longer the time that the beef animals are fattened on grain the less economical the process becomes.

Quite recently Dr. Armsby has pointed out (Yale Review, January, 1920) that "the dairy cow shows the highest efficiency of any domestic animal, both as regards conversion of food and availability of the product for man."

Not only is the milch cow several times more efficient than the beef steer in the conservation of proteins, fats, and carbohydrates for human consumption, but in the gathering and preparation of mineral elements and vitamines she contrasts even more favorably with the beef animal. It is largely because of its richness in calcium and in fat-soluble vitamine that milk is the most efficient nutritional supplement to bread or other grain products.

Meat is strikingly poor in calcium and does relatively little to balance a diet consisting largely of bread or of other products of seeds. It does, of course, supplement the protein, but American dietaries would nearly always be adequate as regards protein even without the meat that they contain. On the other hand, dietaries containing little or no milk are very apt to be inadequate as regards calcium. Detailed analysis of the results of hundreds of American dietary studies shows that in practice the adequacy of the calcium intake depends more largely on the sufficiency of milk supply than upon any other factor, or, in fact, than upon all other factors combined.

The vitamines furnished by hay and grains, and thus consumed by cattle, are stored in the animals' tissues to only a limited extent, but they are transferred in relative abundance to the milk. Hence the vitamines of the coarse material of grain not directly available as human food are brought into form for man's use very efficiently through milk production and very inefficiently through the production of meat.

Thus, the result of recent studies in nutrition, which have made clearer the importance of the mineral elements and vitamines, is to emphasize strongly the great desirability of a more abundant milk supply, even if this should somewhat reduce the production and consumption of meat. Our present knowledge of nutrition justifies more fully than ever before the statement that "the dictary should be built around bread and milk," bread or other grain products being the foods which furnish the most nutriment for their cost (whether in money or in land and labor), and milk being by far the most efficient nutritional supplement to bread or other grain products. Therefore, somewhat more of our grain crops than is the case at present should come directly into human consumption to augment the bread supply; and of the grain fed to cattle more should be used for the production of milk and less for the production of meat.

In general, 10 pounds of grain may be expected to produce not over 1 pound of meat or about 3 quarts of milk. If the 3 quarts of milk cost the consumer more (because of greater labor cost in production), they are also certainly worth more to him. In so far as things as different in their nutritional properties as meat and milk can be compared, it is fair to say that 1 quart of milk is at least as great an asset in the family dietary as is 1 pound of meat. The per capita consumption of meat in the United States is so high that it might be reduced by one-third or even one-half with little or no nutritional loss, while a corresponding increase in milk consumption would certainly constitute a great improvement in the average American dietary. We are confident that a moderate shifting of emphasis from meat to milk will help in the normal evolution of American agriculture and improve the food economy and public health of the American people.

WORKERS NEEDED IN VENEREAL DISEASE CAMPAIGN.

Vacancies to be filled in the United States Interdepartmental Social Hygiene Board.

The United States Civil Service Commission announces open competitive examinations to fill positions under the United States Interdepartmental Social Hygiene Board, in connection with the Government campaign for the eradication of social diseases. The dates given are those set for the close of receipt of applications for these examinations.

May 4. Director of Bureau; Division, or Section of Protective Social		alaries.
Measures	\$3,500 to	\$4,500
Supervisor of Protective Social Measures		
Field Agent, Protective Social Measures	1,800 to	3,000
Special Assistant Agent, Protective Social Measures	900 to	1,500
May 5. Assistant Field Agent, Protective Social Measures	1,200 to	2,000

The entrance salary within the range stated will depend upon the qualifications of the appointee and the duty to which he is assigned. Both men and women, if qualified, may enter these examinations.

Detailed information and application blanks may be obtained from the United States Civil Service Commission, Washington, D. C., or from the Secretary of the United States Civil Service Board at the following cities: Boston, Mass., New York, N. Y., New Orleans, La., Honolulu, Hawaii, Philadelphia, Pa., Atlanta, Ga., Cincinnati, Ohio, Chicago, Ill., St. Paul, Minn., Seattle, Wash., San Francisco, Calif., St. Louis, Mo., Administration Building, Balboa Heights, Canal Zone, or from the Chairman of the Porto Rican Civil Service Commission, San Juan, P. R.

BOTULISM A REPORTABLE DISEASE IN CALIFORNIA.

The State board of health of California has declared botulism a reportable disease, and has instructed physicians of the State to make prompt reports of the disease to the local health officer, who, in turn, is requested to report by telegraph to the State board of health. The circular sent out to the local health officers details the principal symptoms, those having to do with the nervous system, and states that "the most common diseases which are confused with botulism are acute poliomyelitis, nervous syphilis, bulbar paralysis, poisoning from alcohol, and fish poisoning."

It would be well if other States should follow the lead of Oregon and California in making botulism a reportable disease. By doing so the State health authorities would obtain valuable epidemiological data in regard to this disease, as well as definite information as to the causative food factors involved in each case.

The Public Health Service is unable to supply the demand for bound copies of the Public Health Reports. Librarians and others receiving the Public Health Reports regularly should preserve them, as it will probably not be practicable to furnish bound copies on individual requests in the future.

DEATHS DURING WEEK ENDED APR. 10, 1920.

[From the "Weekly Health Index," Apr. 13, 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 Apr. 10, 1920, infant mortality (per cent), annual death rates, and comparison with corresponding week of preceding years.

,	Population	Week en 10, 1	ded Apr. 920.	Average	Per cent under	of deaths 1 year.
City.	July 1, 1918, esti- mated.	Total deaths.	Death rate.1	annual death rate per 1,000.2	Week ended Apr. 10, 1920.	Previous year or years.2
Albany, N. Y. Atlanta, Ga. Baltimore, Md. Birmingham, Ala Boston, Mass. Buffalo, N. Y. Cambridge, Mass. Chicago, Ill. Cincinnati, Ohio. Cloumbus, Ohio. Delvoit, Mich. Denver, Colo. Detroit, Mich. Fall River, Mass. Grand Rapids, Mich Indianapolis, Ind Jersey City, N. J. Kansas City, Mo. Los Angeles, Calif. Louisville, Ky. Lowell, Mass. Milwaukee, Wis. Minneapolis, Minn Nashville, Tenn New Haven, Conn New Orleans, La. New York, 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. Rochester, N. Y. St. Louis, Mo. St. Paul, Minn San Francisco, Calif.	128, 392 135, 450 290, 389 318, 770 313, 785 568, 495 234, 891 109, 081 4 457, 147 380, 498 118, 342 428, 684 154, 865 382, 273 5, 215, 879 214, 206 180, 264 1, 761, 371 593, 303	36 69 201 51 51 150 124 187 52 36 99 263 35 37 83 114 102 180 67 78 101 49 123 44 1,523 44 1,523 44 17,523 58 174 58 69 188 174 58 58 59 59 50 50 50 50 50 50 50 50 50 50 50 50 50	16. 6 17. 8 15. 6 13. 5 16. 5 16. 5 12. 9 12. 0 12. 0 12. 0 12. 2 14. 2 14. 2 14. 2 14. 9 18. 6 17. 0 16. 5 14. 7 18. 6 16. 5 16. 5	C 25.0 C 23.0 A 21.1 A 15.9 A 16.7 A 16.6 C 22.1 C 17.6 C 19.1 C 18.9 C 22.1 C 16.0 C 21.3 A 13.4 C 27.1 C 18.9 C 24.7 A 14.4 C 27.1 C 18.9 C 24.7 C 17.6	13. 9 17. 4 17. 9 19. 6 10. 5 23. 3 19. 4 12. 1 18. 6 18. 9 13. 7 12. 1 18. 6 18. 9 13. 4 17. 9 14. 3 11. 2 15. 5 11. 3 11. 3	C 16.7 C 4.5 A 13.5 A 16.6 A 16.7 A 14.9 A 18.0 C 7.9 1 C 9.1 C 9.1 C 10.2 C 10.2 C 10.2 C 10.2 C 10.2 C 10.2 C 10.2 C 10.3 A 18.9 C 14.4 A 18.6 C 10.2 C 10.2 C 10.2 C 10.2 C 10.2 C 10.3 C 10
San Francisco, Calil. Seattle, Wash. Spokane, Wash. Toledo, Ohio. Washington, D. C. Worcester, Mass.	* 243, 109 * 437, 414 173, 650	137 82 40 69 107	14. 9 14. 8 12. 8 13. 2	A 12.9 A 19.2 C 22.2	8.8 15.9 12.5 23.2 9.3	C 5.1 A 12.2 C 7.4 A 15.6 A 7.7 C 17.6

¹ Annual rates per 1,000 estimated population.

² "A" indicates data for the corresponding week of the year 1913 to 1917, inclusive. "C" indicates data for the corresponding week of the year 1917.

³ 1920 enumeration, subject to revision.

⁴ Population estimated as of July 1, 1919.

⁵ Data are based on statistics of 1915, 1916, and 1917.

Summary of information received by telegraph from industrial insurance companies for week ended Apr. 10, 1920.

Policies in force	43, 387, 082
Number of death claims	9, 927
Death claims per 1,000 policies in force, annual rate	

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 Apr. 17, 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	. 3	Mumps	39
Diphtheria	. 11	Pneumonia	11
Influenza		Scarlet fever:	
Malaria	. 5	Fairfield County—Bridgeport	8
Measles		Hartford County—Hartford	7
Scarlet fever	_	New Haven County-	•
Smallpox		New Haven	8
Tuberculosis (pulmonary)		Waterbury	24
Typhoid fever		Scattering.	39
Whooping cough		Septic sore throat	4
ARKANSAS.		Tetanus	1
Chicken pox	57	Trachoma	2
Diphtheria		Tuberculosis	40
Influenza		Typhoid fever	4
Malaria		Whooping cough.	49
Measles		FLORIDA.	
Ophthalmia neonatorum		Cerebrospinal meningitis.	1
Pellagra	-	Diphtheria	10
Pneumonia	10	Dysentery	10
		Influenza.	52
Smallpox		Malaria	92 9
Trachoma		Pneumonia.	-
Tuberculosis		Scarlet fever.	59
Typhoid fever			1
Whooping cough	32	Smallpox	2
CONNECTICUT.		Typhoid fever	20
Cerebrospinal meningitis:		GEORGIA.	
Hartford	1	Cerebrospinal meningitis	1
Chicken pox	33	Chicken pox	7
Diphtheria:		Diphtheria	11
Fairfield County—Bridgeport	7	Dysentery (amebic)	1
Hartford County—Hartford	14	German measles	7
New Haven County-New Haven	9	Hookworm	19
Scattering	27	Influenza	378
German measles.	1	Malaria	22
Influenza	4	Measles	90
Lethargic encephalitis	2	Mumps	27
Measles:	_	Paratyphoid fever	1
Fairfield County—Stamford	11	Pneumonia (lobar)	49
Hartford County—Hartford	38	Scarlet fever	12
New Haven County—New Haven	20	Septic sore throat	8
New London County—New London	52	Smallpox	24
Scattering	71	Trachoma.	3
	(00		•

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GEORGIA—continued.	Cases.	10WA—continued.	Casas.
Tuberculosis (all forms)		Smallpox—Continued.	Cases.
Typhoid fever		Decatur County	10
Whooping cough	-	Des Moines	15
whooping conguestics	20	Dubuque	7
ILLINOIS.		Dubuque County	7
Cerebrospinal meningitis:		Mason City	13
Chicago	1	Scattering	33
East St. Louis	2		
Diphtheria:		LOUISIANA.	
Chicago	124	Cerebrospinal meningitis	4
Rockford	7	Influenza	24
Scattering	18	Pneumonia	3
Influenza	39	Scarlet fever.	4
Lethargic encephalitis:		Smallpox	40
Chicago	6	Typhoid fever	- 4
Le Roy	·· 2		
Potomac	1	MARYLAND,1	
Pneumonia:			
Chicago	207	Cerebrospinal meningitis	1
Scattering	14	Chicken pox	47
Poliomyelitis:		Diphtheria	45
Freeport	1	Dysentery	1
Scarlet fever:		German measles	8
Chicago	245	Influenza	. 112
Kane County—Grove Township	19	Lethargic encephalitis	. 1
Lisbon	9	Malaria	2
Rockford	10	Measles	375
Scattering.		Mumps	35
Smallpox:	. 100	Ophthalmia neonatorum	1
Galesburg	15	Pneumonia (all forms)	108
Scattering	34	Scarlet fever	55
	20	Septic sore throat	1
Typhoid fever	20	Smallpox	1
INDIANA.		Tuberculosis	97
Cerebrospinal meningitis:		Typhoid fever	9
Kosciusko County	1	Whooping cough	25
Lawrence County	i	1	
Diphtheria	27	Massachusetts.	
Influenza.	56	Anthrax	1
Measles:	•	Cerebrospinal meningitis	1
Marion County	494	Chicken pox.	103
Scattering.	555	Conjunctivitis (suppurative)	17
Rabies in animals	1	Diphtheria	
Scarlet fever:	•	German measles.	15
	28	Measles.	
Elkhart County	_	Mumps	174
Fayette County	31	Ophthalmia neonatorum	21
Scattering	88	Pneumonia (lobar)	79
Smallpox	134	Scarlet fever.	298
IOWA.		Septic sore throat	290
Chicken pox	2	Tetanus	1
Diphtheria	3	Trachoma	2
Influenza	6	Tuberculosis (all forms)	221
Measles:		Typhoid fever	12
Council Bluffs	19	Whooping cough	264
Davenport	28	w nooping cough	201
Des Moines	7	MINNESOTA.	
Dubuque	26	Smallpox	13
Scattering	10		
Scarlet fever:		MISSISSIPPI.	
Burlington	14	Diphtheria	7
Council Bluffs	14	Influenza.	169
Scattering.	28	Poliomyelitis	103
Smallpox:	-0	Scarlet fever	2
Belmond	15	Smallpox	59
Davenport	11	Typhoid fever	4

MONTANA.	Cases.	NEW YORK—continued.	Cases.
Cerebrospinal meningitis—Mile City	1	Diphtheria	150
Diphtheria		Influenza	176
Influenza.	6	Measies	1 160
Measles		Pneumonia.	247
	114	Scarlet fever	146
Poliomyelitis—Mile City	1	Smallpox.	10
Scarlet fever	24	Typhoid fever	7
Smallpox	35	Whooping cough	
NEBRASKA.		The state of the s	159
C becoming it is:		NORTH CAROLINA.	
Cerebrospinal meningitis:	_	Cerebrospinal meningitis	_
Hebron	1	Chicken now	1
Chicken pox	13	Chicken pox.	30
Diphtheria	18	Diphtheria	34
Influenza	127	Meas'es.	58
Measles:		Pneumonia (all forms)	46
Benkelman	11	Scarlet fever.	30
Lincoln	79	Septic sore throat	5
Omaha	73	Smallpox	88
Oxford	10	Typhoid fever	9
Valentine	15	Whooping cough	146
Walthill	12	· '	
Scattering	31	Scarlet fever:	
Mumps.	162	Akron	
Scarlet fever:	102	Cincinnati	54
Omaha	10	Washington C II	64
	18	Washington C. H.	5
Valentine	7	Youngstown	17
Scattering	30	Smallpox:	
Smallpox:		Akron	6
Dawson	8	Bucyrus	6
Falls City	8	Washington C. H	7
Knox County	9	Youngstown	36
Lincoln	14	* TEXAS.	
Omaha	15		
Valentine	10	Chicken pox.	20
York	7	Diphtheria	7
Scattering	63	Influenza	36
Typhoid fever	4	Ma'aria	5
Whooping cough	9	Measles:	
	ŭ	E! Paso	25
NEW JERSEY.	- 1	Scattering	11
Influenza	15	Pellagra	2
Measles:		Pneumonia	21
Unusually prevalent through the State.		Scarlet fever.	8
Pneumonia.	146	Smallpox:	
Smallpox:	170	Dallas	15
Belleville	. 4	Fort Worth	19
		Weatherford	23
East Orange	1	Scattering	10
Passaic	1	Trachoma	11
NEW MEXICO.	I	Tubercu'osis	
Chicken pox	8	Whooping cough	19
Diphtheria	5	** HOOPING COUGH	9
Malaria	- 1	VERMONT.	
	1	Chicken pox	16
Mcasles	41	Diphtheria	4
Mumps.	16	Influenza	5
Scarlet fever	14	Meas'es	
Smallpox:	1	Mumps	95
Artexia	5		58
Scattering	5	Pnaumonia	3
Tuberculosis	35	Scarlet fever	13
Whooping cough	21	Typhoid fever	7
-	1	Whooping cough	19
NEW YORK.	- 1	WEST VIRGINIA.	
(Exclusive of New York City.)		Diphtheria	12
erebrospinal meningitis:		Measles:	13
Augusta	1		00
Buffalo		Beckley	28
Utica	1	Clarksburg	10
~ usvd	1	Moundsville	10

WEST VIRGINIA—continued.		wisconsin—continued.	
Measles—Continued.	Cases.	Milwaukee-Continued.	Cases.
Parkersburg	20	Scarlet fever	. 29
Wheeling		Smallpox	. 11
Williamson	10	Tuberculosis	. 22
Scattering	12	Whooping cough	. 54
Scarlet fever	11	Scattering:	
Smallpox:		Chicken pox.	. 27
Bluefield	25	Diphtheria	. 17
Grafton	12	Influenza	
Scattering	3	Measles	393
WISCONSIN.		Scarlet fever.	70
Milwaukee:		Smellpox	104
Chicken pox	31	Tuberculosis	. 12
Diphtheria		Typhoid fover	. 8
Measles	140	Whooping cough	48

Kentucky Report for Week Ended Apr. 10, 1920.

Cerebrospinal meningitis:	Cases.		Cases.
Franklin County	1	Mumps	7
Chicken pox	6	Paratyphoid	1
Diphtheria:		Pellagra	1
Jefferson County	7	Pneumonia	32
Scattering	10	Scarlet fever:	
Dysentery	1	Jefferson County	9
Influenza:	. !	Scattering	9
Hopkins County	40	Septic sore throat	5
Mercer County	30	Smallpox:	
Monroe County	102	Graves County	
Scattering	107	Lincoln County	10
Lethargic encephalitis:		Whitley County	12
Jefferson County	2	Scattering	43
Measles:		Tonsillitis	
Campbell County	18	Tuberculosis:	
Fleming County	14	Jefferson County	14
Jefferson County	20	Scattering	3
Kenton County		Typhoid fever	
Scattering	49	Whooping cough	15

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 moningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
Alabama (March, 1920) Arizona (March, 1920) Arkansas (March, 1920). Listrict of Columbia (December, 1919). Listrict of Columbia (March, 1920). Maine (November, 1919). Massachusetts (March, 1920). Michigan (March, 1920). Nebraska (March, 1920). New Mexico (March, 1920). Pennsylvania (February, 1920). Vermont (March, 1920). Virginia (February, 1920).	3 1 21	150 48 58 558 661	6, 233 439 6, 533 24 2, 215 3, 448 2, 758		183 4 129 11 69 5 3,010 3,380 684 148 9,147 230 881	2 18 1 1	3 1 1 4 1 1 1 6 1 4	51 22 23 69 81 1,224 978 232 53 1,955 6 169	172 21 107 18 57 442 602 44 9	17 1 17 8 2 59 33 63 4 4 85 85

ACTINOMYCOSIS.

Massachusetts-March, 1920.

During the month of March, 1920, one case of actinomycosis was reported in Massachusetts.

ANTHRAX.

Illinois, Massachusetts, Michigan, and Pennsylvania.

There were two cases of anthrax reported in Pennsylvania during February and one in Massachusetts during March, 1920. During the week ended April 3, 1920, there were reported one death at Canton, Ill., one case and one death at Chelsea, Mass., and one death at Detroit, Mich.

CEREBROSPINAL MENINGITIS. Monthly State Reports—1919 and 1920.

Place.	New cases reported.	Place	New cases reported.
Arkansas (March, 1920): Izard County. Mississippi County St. Francis County Total District of Columbia (December, 1919). Massachusetts (March, 1920): Bristol County— Fall River. New Bedford Essex County— Lawrence Lynn. Peabody. Middlesex County— Hudson (town) Lowell Plymouth County— Brockton. Plymouth (town) Suffolk County— Boston. Worcester County— Spencer (town) Total. Nebraska (March 1920): Cedar County. Saunders County Thayer County Thayer County Total.	1 1 3 3 1 2 2 1 1 3 3 1 1 2 2 1 1 1 1 1	New Mexico (March, 1920): San Miguel County. Pennsylvania (February, 1920): Allegheny County. Armstrong County Luzerne County Luzerne County Lycoming County. Montgomery County Philadelphia County Warren County Washington County Total. Virginia (February, 1920): Albemarle County Buchanan County Franklin County Franklin County Lee County— Wheeler Loudoun County Linenburg County Pittsylvania County Pittsylvania County Chatham Wise County.	3 1 1 2 1 1 6 6 1 1 1 2 2 1 1 1 1 1 1 1 1

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga. Baltimore, Md. Boston, Mass Chicago, Ill. Cleveland, Ohio Des Moines, Iowa Detroit, Mich Erie, Pa Harrisburg, Pa Haverhill, Mass Houston, Tex Huntington, Ind Indianapolis, Ind. Ithaca, N. Y Jefferson City, Mo Kansas City, Kans	2 2 2 1 1 1 1 1	1	Kansas City, Mo. Memphis, Tenn. Milwaukee, Wis. Mount Vernon, N. Y. New Bedford, Mass. New York, N. Y. Passaic, N. J. Philadelphia, Pa. Port Chester, N. Y. Quincy, Ill Roanoke, Va. St. Louis, Mo. Sioux City, Iowa Triffin, Ohio. Troy, N. Y.	1 3 1 15 1 1 1 3 3	. 1

DIPHTHERIA.

See Telegraphic weekly reports from States, p. 999; Monthly summaries by States, p. 1002; and Weekly reports from cities, p. 1015.

INFLUENZA.

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases	Deaths
lbany, N. Y	26		Lowell, Mass	3	
Iton, Ill.		i	Lynchburg, Va		1
machiner Moss	9		Lynn, Mass.	2	1
mesbury, Mass	1 1		Marion, Ind	2	1
rlington, Masstlanta, Ga	21		Memphis, Tenn		1
tianta, tra	1 41		Middletown N V	î	ı
uburn, Me			Middletown, N. Y	6	
ustin, Tex		3	Minneapolis, Minn	2	
altimore, Md	40	6	Milliespous, Milli	_	l
Saton Rouge, La	3		Mishawaka, Ind		l
Berkeley, Calif		 	Missoula, Mont	4	
Siddeford, Me Singhamton, N. Y	6		Mobile, Ala		ı
singhamton, N. Y	6		Mount Vernon, N. Y	1	1
tirmingham. Ala	1	7	Muncie, Ind		
lluefield. W. Va	1 12	1	Nashville, Tenn	1	l
oston. Mass	1 31	3	Newark, N. J	11	1
ridgeport, Conn		l i	New Bedford, Mass	2	l
rookline, Mass	i	l î	New Britain, Conn	3	1
ambridge Mess		l î	Newcastle, Ind	1	1
ambridge, Massharlotte, N. C	1 2	l i	Now Haven Conn	•	ı
hicago, Ill	60	8	New Haven, Conn New London, Conn		1
nicago, ui	, on	ŝ	New Loudon, Com.	2	ł
incinnati, Ohioleveland, Ohio	8		New Orleans, 141	2	i
leveland, Ohio	3	2	New York, N. I	- 71	
olorado Springs, Colo	1] 1	New Orleans, I.a	2	
olumbus, Gaolumbus, Ohio	1		Norfelk, Va	1	
olumbus, Ohio		4	North Little Rock, Ark	1	
orms Christi, Tex	7		Oakland, Calif		1
orpus Christi, Texovington, Kyumberland, Md	l i		Oakland, CalifOmaha, Nebr	. 1	1
umborland Md	Ā		Paducah, Ky	2	
allas, Tex	20	3	Paducah, Ky. Passaic, N. J. Paterson, N. J. Petersburg, Va.	ī	
anville, Ill			Poterson N I	ŝ	
anvine, IH		6	Patershurg Vo		
cnver, Colo	10	5	Dhiladelphia Pa	10	
etroit, Mico	12	1 ?	1) Lillingham N T	15	1.0
l l'aso, Tex		4	Petersburg, Va. Philadelphia, Pa. Phillipsburg, N. J. Providence, R. I. Reno, Nev. Riverside, Calif. Roanoke, Va.		
IW00d. Ind			Providence, R. I		
all River, Mass	2		Reno, Nev	. 9	
ort Scott, Kans	1		Riverside, Calif	41	
ort Worth, Texary, Ind	2		Roanoke, Va		,
arv. Ind		1	Rome, Ga. Sacramento, Calif St. Paul, Minn	9	
rand Rapids, Mich	3	1	Sacramento, Calif	7	
reat Falls Mont	3	. 1	St. Paul. Minn		
reat Falls, Montreensboro, N.C		ī	San Diego, Calif	2	
reenwich, Conn	2	-	San Diego, Calif	20	
reenwich, Connammond, Ind	•	i	Seattle, Wash	6	
ammonu, mu	2		Somerville, Mass		
averhill, Mass	2	• • • • • • • • •	Opener ville, Mass	- 7	
ighland Park, Mich	2		Springfield, Mass	· i	
ot Springs, Ark	1		Stockton, Calif		
ouston. Tex	1	1	Tacoma, Wash	1	
dianapolis, Ind mestown, N. Y		3	Taunton, Mass		
mestown, N. Y	4		Toledo, Ohio		
plin, Mo	1		Topeka, Kans	1	
ankakee. Ill		1	Trenton N. J.	11	
ances City Ma	5 1	2	Waltham, Mass	4	
ckawanna, N. Y.	ï		Washington, D. C	8	
xington, Ky	· i	i	Waltham, Mass	. 4	
ttle Rock, Ark	7	•	Wansan Wis	2	
ng Dooch Colif	3		Wausau, Wis	î	•••••
ong Beach, Calif	79	• • • • • • • • •	Winston-Salem, N. C	* !	• • • • • • • •
os Angeles, Calif		• • • • • • • • •	Worcester, Mass		
ouisville, Ky	5		I W UTCCSLET, MASS	I	

LEPROSY.

San Diego, Calif.—Week Ended Apr. 3, 1920.

During the week ended April 3, 1920, one case of leprosy was reported at San Diego, Calif.

LETHARGIC ENCEPHALITIS.

District of Columbia, Michigan, Nebraska, Pennsylvania, and West Virginia.

During February, 1920, two cases of lethargic encephalitis were reported in Pennsylvania. During March, 1920, 14 cases were reported in the District of Columbia, and 1 case was reported in Nebraska. During the week ended April 3, 1920, 5 cases were reported in Detroit, Mich., and 1 case and 1 death were reported at Morgantown, W. Va.

MALARIA.

Monthly State Reports—1919 and 1920.

Place	New cases reported.	Place.	New cases reported.	
labama (March, 1920):		Virginia (February, 1920):		
Calhoun County	1	Accomac County	1 .	
Choctaw County	1 1 3 3	Darkslass	,	
Clarke County	1 1	Parksley	1	
Houston County	3	Albemarle County—	f	
Jefferson County	3	Charlottesville.		
Landerdale County	1 5	Bedford County		
Lauderdale CountyTalladega County	آم ا	Brunswick County	1	
Tuscaloosa County		Buckingham County		
•	I	Campbell County		
Total	17	Caroline County		
-1 (March 1000).		Dinwiddie County		
rkansas (March, 1920):	111	Elizabeth City County—		
Bradley County	1 11	Hampton		
Carroll County	1	Essex County		
Clark County	24	Essex County. Gloucester County.	•	
Clay County	17	Greenesville County		
Claburne County	4	Emporia.		
Crawford County	3	North Emporia.		
Drew County		Walley County		
Franklin County	7	Halifax County		
Hot Spring County		Nathalie		
Howard County		Hanover County		
Jackson County		Henrico County		
Jefferson County		Henry County		
Jenerson County		Isle of Wight County	1	
Logan County	i	Louisa County		
Miller County		Lunenburg County		
Mississippi County	2	Middlesex County		
Monroe County	2	Northampton County		
Ouachita County	18	Northumberland County		
Prairie County	1	Nottoway County		
Pulaski County	1	Pittsylvania County		
Saline County	6	Powhatan County		
Sebastian County	2	Prince Edward County—		
Sevier County	60	Frince Edward County—		
St. Francis County	70	Farmville.		
Union County.		Prince George County		
Woodruff County	2	Prince William County		
Yell County		Roanoke County	2	
· ·		Rockingham County		
Total	278	Dayton		
•		Shenandoah County		
aine (November, 1919):	· H	Southampton County		
Penobscot County—	1	Stafford County		
Veazie (town)		Surry County		
assachusetts (March, 1920):		Sussex County		
Suffalls Country-	!	Wise County—		
Winthrop (town)	1	Osaka		
		Wythe County—		
ew Mexico (March, 1920):	- 11	Whytheville		
Grant County	1	Willy the vine		
Rio Arribo County	3.11	m		
Rio Arriba County	3	Total	13	

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Brunswick, Ga. Dallas, Tex. Danville, Va Little Rock, Ark Long Beach, Calif.	1	1 1	Lynn, Mass. Memphis, Tenn New York, N. Y Trenton, N. J	1 1	i

MEASLES.

See Telegraphic weekly reports from States, p. 999; Monthly summaries by States, p. 1002; and Weekly reports from cities, p. 1015.

PELLAGRA. Monthly State Reports—1919 and 1920.

Place.	New cases reported.	Place.	New cases reported.
Alabama (March, 1920): Escambia County Lowndes County. Total. Arkansas (March, 1920): Bradley County. Faulkiner County Franklin County Hempstead County Ouachita County Pulaski County Saline County Total.	1 2 1 1 1 2 6 3	District of Columbia (December, 1919) New Mexico (March, 1920): Union County Virginia (February, 1920): Albemarle County Charlottesvile Princess Anne County Irince George County Hopewell Washington County Total	

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Piace.	Cases,	Deaths.
Beaumont, Tex Pallas, Tex Fort Worth, Tex Memphis, Tenn	i	1 1 2	Waco, Tex. Wilmington, N. C. Winston-Salem, N. G.	i	4

PLAGUE.

California (Human Plague).

What appears to be an isolated case of plague infection from ground squirrels has been reported from a rural locality in California. The patient was a girl, aged 7, living on an isolated ranch 10 miles southeast of Hayward, Calif. She died April 19, 1920, in Alameda County Hospital. Animal inoculations have been made and epidemiologic studies are in progress to verify the diagnosis.

Active plague suppressive measures have been carried on in California for several years. The work of eradication of ground squirrele has proceeded actively.

New Orleans, La. (Rodent Plague).

During the week ended April 15, 1920, five plague rats were confirmed at New Orleans, La. All were Mus norvegicus.

PNEUMONIA (ALL FORMS).

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths
Albany, N. Y	8		Harrison N. J.	1	-
Alton, Ill	i	1	Harrison, N. J. Hartford, Conn. Haverhill, Mass.	3	
nn Arbor, Mich	2		Haverhill, Mass		
nniston, Ala	2		Highland Park, Mich	2	
Arlington, Mass Ashtabula, Ohio		3	Hoboken, N. J	5	l
ishtabula, Onio	3.	. 8	Holyoke, Mass	2	1
tanta, Ga. tiantic City, N. J. turora, Ill. nustin. Tex Saltimore, Md.	3		Houston Tox		Ì
transic City, N. J	3		Huntington W Va	. 10	
hustin. Tex		5	Independence, Mo	1	İ
Baltimore, Md	75	23	Indianapolis, Ind		
Baton Rouge, La	1	1	Ironwood, Mich	1	l
Sayonne, N. J	2	3	Ithaca, N. Y	2	1
Beaumont, Tex		8	Jacksonville, III		
Selleville, N. J	•	i	Jamestown, N. I	10	
Serkeley, Cami		i	Jersey City N I	•	1
Roverly Mass		Ī	Joplin. Mo	ľi	
Billings, Mont		Ī	Kalamazoo, Mich	5	
Singhamton, N. Y	2	2	Kankakee, Ill	1	1
Birmingham, Ala		4	Kansas City, Kans	4	
Bloomfield, N. J	1	·····i	Kansas City, Mo	29	
sioomington, ind	22	21	Lockewerne N. V.	3	
ousturi, Mass	33	10	La Favette Ind	پ	
sattimore, Md satom Rouge, La sayonne, N. J. seaumont, Tex selleville, N. J. serkeley, Calif. serlin, N. H. severly, Mass sillings, Mont slinghamton, N. Y. slrmingham, Ala. sloomifield, N. J. sloomington, Ind. soston, Mass stridgeport, Conn bristol, Com.	1	l	Highland Park, Mich. Hoboken, N. J. Holyoke, Mass. Hot Springs, Ark Houston, Tex. Huntington, W. Va Independence, Mo. Indianapolis, Ind. Ironwood, Mich Ithaca, N. Y. Jacksonville, Ill. Jamestown, N. Y. Jofferson City, Mo. Jersey City, N. J. Joplin, Mo. Kalamazoo, Mich Kansas City, Kans Kansas City, Kans Kansas City, Mo. Kearny, N. J. Lackawanna, N. Y. La Fayette, Ind Lancaster, Ohio La Salle, Ill.		l
ristor, Commiscore, Commiscore, Mass. uffalo, N. Y. urlington, Vt. utte, Mont.	2	i	La Salle, Ill.	1	l
uffalo, N. Y.		25	La Salle, Ill. Lawrence, Kans.		!
urlington, Vt		1	Lexington, Ky		İ
utte, Mont	ľ	5	Lincoln, Nebr	. 1	l
ambridge, Mass anton, Ohio harleston, S. C. harleston, W. Va. harlotte, N. C.	3	4	Little Rock, Ark	2	·····
anton, Unio		6 7	Lockport, N. 1	្ន	· · · · · · · · · ·
harleston, S. U		•	Long Branch N I	2	·····
horlotte N C	î		Los Angeles Calif	35	l
helsea, Mass.	2	i	Louisville, Kv	2	l
hevenne. W vo	1	1	Lowell, Mass		
hicago Heights, Ill		3	Lynn, Mass	4	
hicago, Ill	261	69	Malden, Mass		l
helsea, Mass. heyenne, Wyo hicago Heights, III hicago, II h		2	Manchester, N. H	1	Į
incinnati, Ohio		. 6	Marion, Ind		1
leveland, Onio	1.0	28 1	Marquette, Mich	1	
oloredo Springe Colo		2	Medford Mass	1	
olumbus Ga	1	2 2	Melrose Mass	ĺ	l
olumbus, Ohio		6	Memphis, Tenn		
oncord, N. H		2	Middletown, N. Y	1	,
orpus Christi, Tex	1		Middletown, Ohio		1
ovington, Ký	1	4	Milwaukee, Wis		
umberland, Md	5	1	Minneapolis, Minn	<u> </u>	1
orpus Christi, Tex. orington, Ky umberland, Md allas, Tex. banville, Ill becatur, Ill becret, Colo betroit, Mich uluth, Minn	4.	5 4	La Salle, Ill. Lawrence, Kans. Lexington, Ky Lincoln, Nebr Little Rock, Ark Lockport, N. Y. Long Beach, Calif Long Branch, N. J. Los Anceles, Calif Louisville, Ky Lowell, Mass. Lynn, Mass. Manchester, N. H. Marion, Ind. Marquette, Mich. Martins Ferry, Ohio. Medford, Mass. Memphis, Tenn. Middletown, N. Y. Middletown, N. Y. Middletown, Ohio. Milwaukee, Wis. Minneapolis, Minn. Missoula, Mont. Mobile, Ala. Montclair, N. J. Montgomery, Ala Morristown, N. J. Mondgord, N. Y. Moundsville, W. Va. Mount Vernon, N. Y. Muncie, Ind. Nashua, N. H. Nashville, Tenn Newark, N. J.		
Buville, Ill		2	Montelair N J	3	l
lenver Colo		9	Montgomery, Ala		i
etroit, Mich	49	52	Morristown, N. J.		l
uluth, Minn	2	ī	Moundsville, W. Va		
urham, N. C	2		Mount Vernon, N. Y	5	
ast Chicago, Ind		2	Muncie, Ind		l
ast Orange, N. J	8	1	Nashua, N. H		
uluth, Minn urham, N. C. ast Chicago, Ind. ast Orange, N. J. ast St. Louis, Ill. lgin, Ill. lizabeth, N. J. likhart, Ind. l Paso, Tex. nglewood, N. J. verett, Mass all River, Mass.		3	Nashua, N. H. Nashville, Tenn. Newark, N. J. New Bedlord, Mass. New Britain, Conn. New Castle, Ind. New Haven, Conn. New London, Conn. New Orleans, La. New Ork, N. Y.	77	l
igui, III lizahath N I		5	New Bedford, Mass	2	١
lkhart. Ind		2	New Britain, Conn	l	l
l Paso, Tex		14	New Castle, Ind		l
nglewood, N. J		2	New Haven, Conn		l
verett, Mass	2		New London, Conn		l
all Kiver, Mass	6	4	New Urleans, La	398	، ا
indiay, Onio		6	New York, N. Y Niagara Falls, N. Y	398 10	·
nnt, Mich	2	3	North Adams, Mass	10	
ort Worth Tov	10	10	North Adams, Mass Northampton, Mass North Little Rock, Ark	ī	
reeport. Ill		ĩ	North Little Rock, Ark	2	
alesburg, Ill		î	North Tonawanda, N. Y Oakland, Calif	4	
eneva, N. Y	i	ļ	Oakland, Calif	1	l
rand Rapids, Mich	14	2	Oak Park, Ill. Oklahoma City, Okla	1	[
reat Falls, Mont		2 2 1	Okiahoma City, Okia		
reeley, Colo		1	Olean, N. Y		l
all kiver, Mass. indlay, Ohio lint, Mich. ort Wayne, Ind. ort Worth, Tex reeport, Ill. leasburg, Ill. leasburg, Ill. leasburg, Ill. leasva, N. Y rand Rapids, Mich reeley, Colo. reensboro, N. C reenwich, Conn. lackensack, N. J. lammond, Ind.		1 1	Omaha, Nebr Orange, N. J	14	l
feetenced N I	3	3	Parsons, Kans	i	L
GUACINGUA, IV. J		ı	II		

PNEUMONIA (ALL FORMS)—Continued. City Reports for Week Ended Apr. 3, 1920—Continued.

Place	Cases.	Deaths.	Place.	Cases.	Deaths.
Passaic, N. J		3	Santa Barbara, Calif	1	
Patarson N T	4		Saratoga Springs, N. Y		
Pawtucket R I		4	ll Sault Sta Maria Mich	1	1
Panria III	1	3	Savannah, Ga. Schenectady, N. Y. Somerville, Mass.	_	
Porth Ambor N I	1	3	Schenectedy N V	11	
Potoschusz Vo		2	Somerville Mass	7	1 '
Petersburg, Va. Philadelphia, Pa. Piqua, Ohio. Pittsfield, Mass.		75	Southbridge, Mass	-	
rinadelpina, ra	1 20	1 1	Chartenburg & C	• • • • • • • • •	
riqua, Unio	1 1	1 1	Chairmandald III		1 :
Tittsneid, Mass	1 1	2	Opinighoru, III		1 :
lainneid, N. J	1 1	ı	Springileid, MO		1
Plainfield, N. J. Plattsburgh, N. Y. Plymouth, Mass.	4 2		Springfield, Ohio	• • • • • • • • •	
lymouth, Mass		1	Staunton, va		1
Pontiac, Mich Portland, Me	5	2	Stockton, Calil	1	
Portland, Me		3	Byracuse, N. Y	3	,
Ortiand, Oreg Providence, R. I. Pueblo, Colo. Quincy, III. Quincy, Mass.		5	Stockton, Calif. Syracuse, N. Y. Tacoma, Wash. Taunton, Mass. Terre Haute, Ind. Triffin, Ohio.	1	
Providence, R. I	2	14	Taunton, Mass	1	
Pueblo, Coló	l	3	Terre Haute, Ind		
Quincy, Ill.	2	3	Tiffin, Ohio		
Duincy, Mass		1	Toledo, Ohio		
Rahway, N. J	1	ī	Topeks, Kans Trenton, N. J Troy, N. Y Vallejo, Calif. Waltham, Mass. Washington, D. C. Waterbury, Conn. Watertown, N. Y	2	1
Reno, Nev Richmond, Ind Richmond, Va	2	2	Trenton, N. J.	7	
Richmond Ind	1 1	1 1	Trov. N. Y	3	1
Richmond Va		1 1	Valleio Calif		
Riverside, Calif. Roanoke, Va Rochester, N. Y		1	Waltham Mass	3	
Popole Va	1 1	3 5	Washington D C	•	
Poshortor N V		ž	Weterhury Conn	1	
Dockford III	- 4		Wetertown N V	•	
MCKIOIU, III		1	Waren Wie	•••••	
COCK ISIMIU, III	1 .	1	Wausau, Wis. West Hoboken, N. J	• • • • • • • • • • • • • • • • • • • •	
Rockford, III Rock Island, III Rome, Ga Rome, N. Y Rutland, Vt	3 1		West House Voel N Y		:
tome, N. I	•		West New Lolk, N. J.		,
Sutland, Vt		2	West Urange, N. J	1	• • • • • • • • • •
aeramento, Calift, Joseph, Mot, Paul, Minn	6 1	3	w neering, w. va		
t. Joseph, Mo		2	White Plains, N. Y	3	
t. Paul, Minn		5	Wichita, Kans		
alem, Massalt Lake City, Utah	2		West Hobken, N. J. West New York, N. J. West Orange, N. J. Wheeling, W. Va. White Plains, N. Y. Wichita, Kans. Wilmington, Pel. Wilmington, N. C. Winston-Salem, N. C. Worcester, Mass. Yonkers, N. Y.		14
alt Lake City, Utah	1	2	Wilmington, N. C		1
an Tiego, Califandusky, Ohioanford, Me	2	11	Winston-Salem, N. O	3	
andusky, Ohio	2	1	Worcester, Mass	4	1
anford. Me		i il	Yonkers, N. Y		1
an Francisco, Calif	17	i i			· ·

POLIOMYELITIS (INFANTILE PARALYSIS). Monthly State Reports—1919 and 1920.

Place.	New cases reported.	Place.	New cases reported.
Arkansas (March, 1920): Clay County Howard County Lawrence County Total District of Columbia (December, 1919) Maine (November, 1919): Aroostook County Ashland (town) Massachusetts (March, 1920): Essex County Lawrence Middlesex County Newton Suffolk County Boston Worcester County Leominster Total Michigan (March, 1920): Alpena County	1 1 3 1 1 1 1 1 1	Nebraska (March, 1920): Johnson County New Mexico (March, 1920): Dona Ana County Pennsylvania (February, 1920): Cambria County Columbia County Total Vermont (March, 1920): Caledonia County Virginia (February, 1920): Buchanan County Nelson County Nelson County Smyth County Sugar Grove Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Chicago, Ill	1	1 1	Pittsburgh, Pa. St. Paul, Minn San Francisco, Calif.	1 1 1	

RABIES IN ANIMALS.

City Reports for Week Ended Apr. 3, 1920.

During the week ended April 3, 1920, one case of rabies in animals was reported at Cincinnati, Ohio, one at Cranston, R. I., one at Detroit, Mich., and one at Kansas City, Mo.

SCARLET FEVER.

See Telegraphic weekly reports from States, p. 999; Monthly summaries by States, p. 1002; and Weekly reports from cities, p. 1015.

SMALLPOX. State Reports for March, 1920—Vaccination Histories.

			Vac	cination h	istory of c	ases.
Place.	New cases reported.	Deaths.	Vacci- nated within 7 years preced- ing attack.	Last vacci- nated more than 7 years preced- ing attack.	Never success- fully vacci nated.	History not ob- tained or un- certain.
District of Columbia	18				18	
Michigan: Alger County Arenac County Baraga County Baraga County Berrien County Berrien County Calhoun County Case County Charlevoix County Cheboygan County Clare County Clinton County Eaton County Eaton County Eaton County Genesee County Genesee County Gogebic County	1 2 9 52 10 4 2 2 3 5 5 1 2 2 7		1		46 10 3 3 4 1	1 2 9 1 1
Grand Traverse County. Gratiot County. Houghton County. Huron County. Ingham County. Ionia County. Iron County. Iron County. Isabella County. Jackson County Kalamazoo County Kent County. Keweenaw County. Livingston County. Marquette County. Marquette County. Marquette County.	1 8 29 1 1 53 5 1 2 6 3 20 1 1 5 5		7 3 1 1 1	1	1 23 1 4 2 5 1 1	1 2 2 51 1 1 1 2 2 20 3 3

SMALLPOX—Continued.

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

				Vaccination history of cases.			
Place.	New cases reported.	Deaths.	Vacci- nated within 7 years preced- ing attack.	Last vacci- nated more than 7 years preced- ing attack.	Never success- fully vacci- nated.	History not ob- tained or un- certain.	
Michigan—Continued. Muskegon County. Newaygo County. Oakland County. Oceans County. Otsego County. Ottawa County. Presque Isle County. Schoolcraft County. Shiawassee County.	1 3 5 3 1 1 1				2 1 2 4	1 1 3 1	
St. Clair County Van Buren County Washtenaw County Wayne County Total	. n.		1 22	1	208	1 95 211	
New Mexico: Bernalillo County Chaves County. Colfax County Curry County Eddy County Lincoln County Meximley County Mora County. Otero County. Quay County Sierra County Socorre County Union County	2 2 18 5 1 1 5 2 3 2			1	1 2 2 27 5 1 1 5 2 1 1	2 1	
Total	44			1	39	4	

Monthly State Reports-1919 and 1920.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alabama (March, 1920): Baldwin County	,		Arkansas (March, 1920):		
Bullock County	1 2	1	Benton County	4	
Butler County.	14		Cleburne County	13	
Chilton County.	1		Crawford County	i i	
Conecuh County.	- 7		Franklin County	ž	
Elmore County	;		Garland County	2	
Escambia County	5		Howard County		••••
Etowah County.	2		Izard County.	3	
Geneva County	ĩ		Jackson County		
Jefferson County			Lewrence County	Ī	• • • • • • • • • • • •
Macon County.	2		Marion County	Đ	• • • • • • • • • • • • • • • • • • • •
Mobile County	ផ្ទ	•••••	Miller County	8	• • • • • • • • •
Pike County.	wo 1	•••••	Mississippi County	5	
Talladega County			Monroe County	7	•••••
Tuscaloosa County	9	•••••		3	
Walker County	:	•••••	Pike County	3	
Wilcox County			Pope County Prairie County	0	
Winston County	12			31	
Winston County	12	•••••	Pulaski County	4	
Total	172		Sebastian County	. 5	
1000	1/2	• • • • • • • • • • • • • • • • • • • •	Sevier County	7	
F			St. Francis County		
rizona (March, 1920):			White County	10	
Gila County			Woodruff County	. 1	
Maricopa County	2	• • • • • • • • • • • • • • • • • • • •	Total	107	
Mohave County		• • • • • • • • • • • • • • • • • • • •	26		
Yavapai County	1	•••••	Maine (Nevember, 1919):		
TO AND AND CONTROL		•••••	Maine (November, 1919): Andrescoggin County— Auburn		
Total	-		ADDEEN	51	
	21		Lowiston		

SMALLPOX—Continued.

Monthly State Reports-1919 and 1920-Continued.

Place.	Cases.	Deaths.	Place.	Casos.	Deaths.
Maine (November, 1919)—Con.			Nebraska (March, 1920)—Con.		
Aroostook County—	ı	1	Webster County	27	
Limestone (town) Monticello (town)	1 2		Tork County	21	
Franklin County—	• • • • •		Total	602	
Farmington (town)	5		Pennsylvania (February,		-
Temple (town)	6 1		Pennsylvania (February, 1920):	ł	1
Wilton (town) Kennebec County—			Allegheny County	1	1
Augusta	13		Cambria County	1	
Augusta Winslow (town)	1		Chester County. Franklin County.	2	
Oxford County— Mexico (town)	1		Lackawanna County	1	
Norway (town)	2		Westmoreland County	3	
Norway (town) Rumford (town)	1		Total	9	
Penobscot County—		l	10041	. 8	
EtnaWaldo County—	1		Virginia (February, 1920)		
Stockton Springs	12	l	Accomac County—		1
		 	Chincoteague Alexandria County—	. 5	
Total	57	•••••	Alexandria	2	1
Nebraska (Mareh, 1920):			Augusta County Bedford County	9	
Adams County	6	l	Bedford County	18	
Antelope County	1		Reusens Brunswick County	10	
Boone County	2		Campbell County	12	
Box Butte County Brown County	4 2		Dickenson County	3	
Buffalo County.	5		Elizabeth City County Floyd County		
Burt County	7		Giles County—	1	
Cass County	18 3		Eggleston	3	1
Cherry County	1		Gloucester County	10	
Cherry County	19		Greene County	22	
Clay County	14		Greenesville County— North Emporia	4	1
Collax County	. 8		Henry County	19	
Cuming County Dawes County	4		Martinsville	. 5	
Deuel County	16		Isle of Wight County	15	
Dodge County	5		ZuniLee County	12	
Douglas County	42 12		Keokee	5	
Dundy County Fillmore County			St. Charles	5	
Franklin County	20		Montgomery County— Otey	6	ł
Furnas County Gage County Garden County	4 7		Lafavette		
Gage County	í	•••••	Norfolk County	9	
Grant County	4		Norfolk	7 4	
Greeley County	2		Pittsylvania County—	*	
Harlan County	4		Danville	2	
Hitchcock County Holt County	4		Princess Anne County	1	
Howard County			Roanoke County— Roanoke	. 1	l
Keith County	1		Rockingham County	197	
Kimbali County	1 8	• • • • • • • • • • • • • • • • • • • •	Elkton	63	
Knox County	74		Scott County Shenandoah County	10	
Lincoln County.	2		Southampton County		
Madison County	12		Stafford County	8	
Merrick County Nance County	46		Sussex County Tazewell County	9	
Nuckolls County	19	•••••	Boissevain	2 3	
Otoe County	34		North Tazewell	3	
Pawnee County	6		Warwick County—		
Phelps County Pierce County	2	•••••	Newport News	1	
Keawillaw Connty	8		Washington County	19	
Richardson County	i		Wise County	69	
Saune County	13		Big Stone Gap	6	••••••
baunders County	43	••••••	Exeter	7.7	• • • • • • • • • • • • • • • • • • • •
Thayer County	13		Norton Osaka	146 6	• • • • • • • • • •
SCOUR Bliff County	3		Stonega	2	
Seward County Sherman County Stanton County	13		Wise Wythe County	3	
Stanton County	6 21		Wythe County	2	
Valley County.	5		Max Meadows	. 4	····
Washington County	i i		Total	803	

SMALLPOX—Continued.

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Cases,	Deaths.
Ann Arbor, Mich. Appleton, Wis. Atchison, Kans. Atlanta, Ga. Auburn, Me	2		Knoxville, Tenn	4	
Appleton, Wis	2		Kokomo, Ind	Ī	
Atchison, Kans	5		La Fayette, Ind.	i	
Atlanta, Ga	1		La Fayette, Ind Laurel, Miss	. 4	1
Auburn, Me	1		Lexington, Ky Lincoln, Nebr	1	
Baton Rouge, La. Battle Creek, Mich	1		Lincoln, Nebr	10	
Battle Creek, Mich	1		Logansport, Ind Long Beach, Calif	4	
Beatrice, Nebr	4		Long Beach, Calif	5	
Belleville, N. J.	20			4	
Bellingham, Wash	10		Louisville, Ky Lynchburg, Va. Manitowoc, Wis	2	
Birmingham, Ala Bluefield, W. Va	10	·····	Monitowoo Wie	3	
Boise, Idaho.	16		Marion, Ind	3	
Burlington, Iowa	1 1		Marion, Ohio	, ,	
Cairo, III	į		Marquette, Mich	2	
Canton, Ohio Cedar Rapids, Iowa Charleston, S. C	2				
Cedar Rapids, Iowa	2 2 6		Mason City; Iowa Memphis, Tenn Middletown, Ohio Milwaukee, Wis Minneapolis, Minn Mishawaka, Ind	4	
Charleston, S. C	6		Memphis, Tenn	8	
Chicego III - 1	5	1	Middletown, Ohio	i	
Cincinnati, Ohio	1		Milwaukee, Wis	10	
Cleveland, Ohio	1		Minneapolis, Minn	17	
	10		Mishawaka, Ind	1	
Columbia, S. C	1				
Columbus, Ga	3		Montgomery, Ala New Orleans, La	1	
Council Bluffs, Iowa	5		New Orleans, La	38	10
Dauas, Tax	15		Norfolk, Va. North Little Rock, Ark	3	
Davenport, Iowa Decatur, Ill Denver, Colo Des Moines, Iowa	18		North Little Rock, Ark	1	
Decatur, III	4			3	
Den Meiner Tarre	29		Oklahoma City, Okla. Omaha, Nebr.	. 3	
Des Moines, 10ws	2 19		Ochban Win	9	
Detroit, Mich	1	•••••	Dadwash V	3	
Dubuque, Iowa	2		Oshkosh, Wis Paducah, Ky.	7	
Duluth, Minn East Orange, N. J	2		Parsons, Kans. Pittsburgh, Pa Portland, Oreg. Quincy, III Reno, Nev Roanoke, Va Rock Island, III Sacramento, Calif. St. Cloud, Minn St. Joseph, Mo. St. Louis, Mo. St. Paul, Minn Salt Lake City, Utah	2	•••••
East St. Louis, III	î		Postland Orea	21	
Eau Claire, Wis	î		Oniney III	. 4	
Elkhart, Ind	i	•••••	Reno New	i	
Eugene, Oreg	2 j		Rosnoka Va	i	
	ī		Rock Island, Ill	3	
Everett, Wash	ī		Sacramento, Calif	ĭ	
Flint, Mich	2 1		St. Cloud. Minn	ī	
Fond du Lac, Wis	3		St. Joseph, Mo	33	
Fort Dodge, Iowa	1)		St. Louis, Mo	11	
Fort Scott, Kans	2 3		St. Paul, Minn	11	
Everett, Wash. Flint, Mich. Fond du Lac, Wis. Fort Dodge, Iowa. Fort Scott, Kans Fort Worth, Tex Galesburg, Ill. Gary, Ind	3		Salt Lake City, Utah San Diego, Calif.	22	
Galesburg, III	6		San Diego, Calif	3	
Gary, Ind. Grand Rapids, Mich. Grantie City, III. Great Falls, Mont. Green Bay, Wis. Hammond, Ind. Highland Park, Mich.	5		u xan kraneisco Calif	1	
Grand Rapids, Mich	3	• • • • • • • • • •	Santa Barbara, Calif	2	
Creat Follo Mont	1	•••••	Seattle, Wash Sioux City, Iowa	9	
Green Roy Wie	1	• • • • • • • • • • • • • • • • • • • •	Sloux City, lows	2	
Hammond Ind	12	• • • • • • • • • • • • • • • • • • • •	i bouth beng. ind	1	••••••
Highland Park, Mich	2 2 3 2 1	· · · · · · · · · · · ·	Spokane, Wash Springfield, Ohio	31	••••••
Huntington, Ind	4		Steubenville, Ohio	1 3	• • • • • • • • • •
Huntington, W. Va.	31	•••••	Stockton Colif	il	•••••
ndependence, Mo.	11		Superior Wie	9	
ndianapolis, Ind	8	•••••	Toneka Kans		• • • • • • • • • • • • • • • • • • • •
lowa City, Iowa	ĭ		Stockton, Calif. Superior, Wis. Topeka, Kans. Trinidad, Colo.	21	
owa City, Iówa ronton, Ohio	i l		Tuscaloosa, Ala		
acksonvilla. III	2		Vallejo, Calif	·····i	
oplin, Mo. Kalamazoo, Mich.	2		Waco, Tex	21	
Kalamazoo, Mich	īl		Washington, D. C.	6	
Kansas City, Kans	6		Wichita, Kans	ıĭ	
Kansas City, Kans Kansas City, Mo Kenosha, Wis	22		Winston-Salem, N. C.	1	
Cenosha, Wis	2		Yakima, Wash	īł	
Kewanee, Ill	4			- 1	
	- 1		1. 1	1	

TETANUS.

City Reports for Week Ended Apr. 3, 1920.

Place.	Cases.	Deaths.	Place.	Charge.	Deaths.
Baltimore, Md. Charleston, S. C. Dallas, Tex.		1	New York, N. Y	1	
Dallas, Tex	1	1			

TUBERCULOSIS.

See Telegraphic weekly reports from States, p. 999, and Weekly reports from cities, p. 1015.

TYPHOID FEVER.

Monthly State Reports-1919 and 1920.

Place.	New cases reported.	Place.	New cases reported.
Alabama (March, 1920):		Massachusetts_(March 1920)_Contd	
Butler County	1 1	Hampshire County-	1
Clarke County	3	Massachusetts—(March, 1920)—Contd. Hampshire County— Northampton.	1
Jefferson County	3	a mudrena Cornev	i
Mobile County	1	R Cambridge	1 3
Montgomery County	5	Lowell	1
Pike County	2	Medford	1
Montgomery County Pike County Taliapooss County	2	Newton	l
Total	17	Plymouth County— Brockton Plymouth (town)	
Arizona (March, 1920):		Wareham (town)	i
Yavapai County	1	Suffolk County— Boston	8
Arkansas (March, 1920): Calhoun County	1	Total	33
Clark County.	2	20001	3
Clahuma County	4	Michigan (March, 1920):	
Conway County	1		8
Lonoke County	2	Calhoun County	1
Mississippi County	. 1	Clinton County	2
Pulaski County	2	Eston County	2
Conway County Lonoka County Mississippi County Pulasti County Saline County White County	1	Calhoun County Cinton County Eston County Genesse County Gratiot County Ingham County Ionia County	8128311118211114
White County	3	Gratiot County	1
•	17	Topic County	+
Total	17	Josep County	•
District of Columbia:		Jackson County	•
December, 1919	8	Ionia County. Iosoo County Jackson County Kalamazoo County	ā
December, 1919 March, 1920.	2	Echi County	. 3
and the second of the second o		Magamb County	1
faine (November, 1919):		Manistee County	1
Haine (November, 1919): Androscoggin County—		Marquette County	1
Auburn	1	Midiand County	i i
Lewiston	1	Manistee County Marquette County Midland County Muskegon County Oakland County St. Clair County	
Portland	9	St. Clair County	. â
Kennehec County-	•	Van Buren County	Ĭ
Augusta	2	Wayne County	22
WREAPVILLA	4	•	
Knox County— Rockland (town)	_	Total	
Rockland (town)	2	Mahmalm (Manch 1990)	
Piscataquis County— Greenville (town)	• • •	Nebraska (March, 1920): Douglas County	•
Sagadahoc County—	14	Otoe County	2
Bath	16	Otoe County	ī
Bowdoinham (town)	ĭ		
Somerset County—	- 1	Total	4
Fairfield (town)	1		
Waldo County-	1	New Mexico (March, 1920):	_
Belfast	1	Bernalillo County	1
Washington County—	_ I	Chaves County	ī
Jonesboro (town)	1	Grant County	
Machias (town)	1	Total	
York County—	*		
Kennebunk.	3	Pennsylvania (February, 1920): Allegheny County Armstrong County Beaver County Blair County Bucks County Cambria County	
South Berwick.	ĭ	Allegheny County	8
200		Armstrong County	14
Total	59	Beaver County	2
		Blair County	2
fassachusetts (March, 1920):		Bucks County	3
Barnstable County—	. 1		1
Provincetown (town)	1	Chester County	4
Bristol County—	ا ہ	Cimberland County	1
Fall River	4	Clearfield County Cumberland County Delaware County	2 3 1 4 2 1 1 2 5 1
Essex County— Gloucester	1	Erie County	2
Peabody	2	Favette County	5
TAWREDGE	11	Fayette County Franklin County	ĭ
Franklin County—	* 1	Greene County	1
			ī
Montague (town)	1.1	Indiana County	-
Montague (town)	1	Lackswanna County Lancaster County	i i

TYPHOID FEVER—Continued. Monthly State Reports—1919 and 1920—Continued.

Place.	New cases reported.	Place.	New cases reported.
Pennsylvania—(February, 1920) Contd. Lawrence County. Lehigh County. Luzerne County Montgomery County. Philadelphia County. Schuylkill County. Somerset County. Susquehanna County. Tioga County. Washington County. Westmoreland County. York County Total. Vermont (March, 1920): Addison County. Washington County. Caledonia County. Washington County.	2 15 13 2 3 1 1 2 1 2 1 2 1 2 85	Virginia (February, 1920): Buchanan County— Grundy	1

City Reports for Week Ended Apr. 3, 1920.

Plana	Casos	Deaths	Place	Cases	Deaths
Place. Albany, N. Y. Alpena, Mich. Atlantic City, N. J. Baltimore, Md. Birmingham, Ala Brockton, Mass. Chicago, Ill. Chicopee, Mass. Cleveland, Ohio. Dallas, Tex. Detroit, Mich. East St. Louis, Ill. Elizabeth, N. J. Eric, Pa. Evanston, Ill. Flint, Mich. Galesburg, Ill.	2 2 2 1 1 1 1 1 3	1	Nashville, Tenn New York, N. Y Nisgara Falls, N. Y Omaha, Nebr Philadelphia, Pa Pittsburgh, Pa. Portland, Oreg. Rahway, N. J. Sacramento, Calif. St. Louis, Mo.	1 1 4 1 7 1 2 7 1	Deaths
Flint, Mich. Galesburg, Ill Galveston, Tex. Hammond, Ind. Hartford, Conn. Huntington, W. Va.	3 2 1	1 1	Sacramento, Calif	2 1 2 1	
Kalamazoo, Mich. Kansas City, Kans. Lawrence, Mass. Logansport, Ind. Los Angeles, Calif.	1		Topeka, Kans	1	

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. City Reports for Week Ended Apr. 3, 1920.

-	Popula- tion as of July 1, 1917	Total deaths		theria	Ме	asles.		arlet ver.		ber- losis.
City.	(estimated by U. S. Census Burcau).	from all causes.	Cases.	Desths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Aberdeen, S. Dak	15,926 21,392	4			. 45		. 1			
Aberdeen, Wash Adams, Mass Akron, Ohio Alameda, Calif Albany, N. Y	14,406	1		1	. 3		1			
Akron, Ohio	93,604	36	4		. 27		92		. 16	
Albany N V	28, 433 106, 632	7	2	ļ	. 22		1 5		7	1
Alexandria, Va	17, 959	4	1	1	1]			. i
Alexandria, Va. Allentown, Pa. Alliance, Ohio. Alpena, Mich	65, 109	ļ	. 2	 	- 1	·	. 3		. 2	} -
Alnena Mich	19,581 13,365	4			. 6		2		·	
	13, 365 23, 783 59, 712 10, 200	5	1] 16		l i			
Altrona Pa	59,712		. 3		- :	.	. 	·		
Amesbury, Mass Anaconda, Mont Ann Arbor, Mich	10, 200	1		-	. 10					
Ann Arbor, Mich	15,041	9	1		. 25	1	1	1		1
Ansonia, Conn	16, 954 18, 00 5	0	ļ	·	· ····;·		····	 	.	·
Ann Affor, Mich. Ansonia, Conn. Appleton, Wis. Arlington, Mass. Asbury Park, N. J. Ashtabula, Ohio. Atlanta, Ga. Atlantic City, N. J. Articlovo, Mass.	13,073	6	1	1	3		3		6	
Asbury Park, N. J	14,629	0			. 2				1	
Ashtabilia, Unio	22, 008 196, 144	7 50	4	-	27	ļ	2		1 2	6
Atlantic City, N. J	59, 515 19, 776	17	3	l''i	23		li		2	ľ
<u> </u>	19,776	- 6	ļ		1		10		1 1	2
Autora, III	16,607 34,795	9 10	····	·					1	1
Austin, Tex	33, 612	lio	i	1	i	l			l	2
Baltimore, Md	594, 637 14, 187	199	32	1	164	1	38		42	18
Barre. Vt	12, 401	1 1	2	ļ	7 16		3			
Baton Rouge, La	12, 401 17, 544	10			1		1		i	· i
Battle Creek, Mich	30, 159		ļ <u>;</u> -		39		13			
Auburn, Me. Aurora, Ill. Austin, Tex. Baitimore, Md. Barberton, Ohio Barre, Vt. Baton Rougo, La. Bayonne, N. J. Beatrice, Nebr. Beaumont, Tex. Bedlord, Ind. Belleville, N. J.	72, 204 10, 437	5	•		3	:	1		6	
Beaumont, Tex	28, 851	15			1					2
Bedlord, IndBelleville, N. J	10,613 12,797	2		ļ	ļ		1			
Bellingham, Wash	34, 362				5		2			
Beioit, wis	18, 547		4		20		2			
Benton Harbor, Mich	11,099	9	i-		29				i	
Berkeley, Calif	60, 427 13, 892	4			29		····2		i	
Bethlehem, Pa	14,353		2		4					
Bethlehem, Pa Beverly, Mass Biddeford, Me	14,353 22,128 17,760	. 3					1		3	
Billings, Mont	15, 123 1	7			47					
Binghamton, N. Y	54,834	14			.1		5		2	1
Billings, MontBinghamton, N. YBirmingham, AlaBloomfield, N. J	189, 716 19, 013	44			13 3		5			5
Bioomington III	27,462	5			ļ		8		3	
Bloomington, Ind	11,661 16,123	4	•••••	• • • • • • • • • • • • • • • • • • • •	·····	•••••	1			•••••
Boise, Idaho	35, 951	5					2			
Boston, Mass	767,813	209	30	2	246	1	85	1	80	23
Braddock, PaBradford, Pa	767, 813 22, 060 114, 544		1		2		5		2	
Brazil, Ind	10,472	i			1				1	i
Brazil, Ind	10, 472 124, 724 16, 318	43	4	3	1		2		1	5
Druckiou, Mass	69, 152	1 13	4	····i	4		4		1 3	•••••
3rookline, Mass	33,526	14	2	<u>.</u>	3		5		1	•••••
Brunswick, GaBuffalo, N. Y	10,984 475,781	160	••••••	;;-		;-		•••••	3	1 13
Burlington, Iowa	25, 144	162 9 5		11		. 1	8			
Burlington, Vt		5	2				l		i	•••••
Butler, Pa.	28,677		••••••		2		1		3	·····;
Palmo Tit	15,995	23 7 37	···i		i	:::::1	:::::1	:::::1	1	ī
	444 000	27	3		21		10		8	4
ambridge, Mass	114,295	× 1	~ 1				1		- 4	
ambridge, Mass	13,674 62,566	2]								
ambridge, Mass. anton, Ill. anton, Ohio arlisle, Pa. arnegie, Pa.	21, 502 28, 677 44, 057 15, 995 114, 293 13, 674 62, 566 19, 795 11, 983	2 25	1 8		5		7			· · · · · · · ·

² Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Ме	asles.	Sca	arlet ver.		iber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Cedar Rapids, Iowa	38, 033				ļ		3			
Cantralia III	11,838	1		.	5					
Chambersburg, Pa	12,475 12 968	4								
Charleston, S. C	12,968 61,041	22								i
Charleston, W. Va	31,060	·····ii		.	1			,:	1 8	·····i
Chanute, Kans. Charleston, S. C Charleston, W. Va. Charlotte, N. C. Chelsea, Mass. Chester, Pa. Cheyenne, Wyo. Chicago Heights, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicolee, Mass. Cincinnati, Ohio. Cleveland, Ohio. Clinton. Iowa.	40, 759 48, 405	8	i	1	14		3		3	1
Chester, Pa	41.857		į į		10		3		ļ	
Cheyenne, Wyo	111,320 22,863	3 6	1		4		1			
Chicago Heights, III	2, 547, 201	691	107	10	327	3	229	7	241	65
Chicopee, Mass	22, 803 2, 547, 201 29, 950 414, 248 692, 259 27, 678 113, 075 18, 331 25, 292	7					1 2		1 1	1 2
Cincinnati, Ohio	414,248 602 250	119 238	16 30	2	171 102	1	81 55		17 47	16 27
Clinton. Iowa	27,678	200	ĭ				2 3			
Clinton, Mass	113,075	5		. 1	;-		3		1	1
Cleveiand, Onto. Clinton, Iowa. Clinton, Mass. Coffeyville, Kans. Cohoes, N. Y. Colorado Springs, Colo. Columbia, S. C. Columbia, S. C.	18,331 25,909	10		i	4		2		1	
Colorado Springs, Colo	38,965	16							5	7
Columbia, S. C	35.165	·····	2		9		<u>-</u>			ļ
Columbus, Ga. Columbus, Ga. Columbus, Ga. Columbus, Ohio Concord, N. H. Connellsville, Pa. Cortland, N. Y. Council Bluffs, Iowa. Covington, Ky. Cranston, R. I. Cumberland, Md.	26, 306 220, 135	15 69	6		135	2	2 30	i	4	7
Concord, N. H.	220, 135 22, 858	5	ļ		42			.	ļ	
Connellsville, Pa	15.876						3			
Corneil Bluffe Town	13,321 31,838	4 7			12		2 5		. 1	
Covington, Ky	59,623	16	2		19		6			i
Cranston, R. I	59,623 26,773	6 8	2 1 2 8		1					
Cumberland, Md		56	8		2 2		2 3	•••••	2 8	1 6
Danvers, Mass	129,738 10,037 32,969				7		3		4	ĭ
Danville, Ill	32,969	10			7.	1	•••••			••••
Danville, Va	20, 183 49, 618	• • • • • • • •	•••••		15		1 3		•••••	
Decatur, Ill	41.483	10			54					
Dedham, Mass	10,618	2 82					••••	i	•••••	13
Des Moines, Iowa	104,052	02	10	i	150 2		5 5			
Cranston, R. I Cumberland, Md. Dallas, Tex Danvers, Mass Danville, III Danville, Va. Davenport, Iowa. Decatur, III Dedham, Mass Denver, Colo. Des Moines, Iowa Detroit, Mich Dover, N. H. Du Bois, Pa. Dubuque, Iowa. Dunmore, Pa.	268, 439 104, 052 619, 648	274	75	11	124	3	83		45	15
Dover, N. H	13,276 14,994	5 5	••••	•••••			•••••	•••••	•••••	•••••
Du Bois, Fa	42). (1916-1	9	····i		12				•	
Duluth, Minn	97,077 21,286	14	2		1		. 8		4	i
Dunmore, Pa	21, 286 26, 160	•••••	3		4	•••••			2	····i
Dunmore, Pa Durham, N. C. East Chicago, Ind. East Cleveland, Ohio	30, 286	7 7								
East Cleveland, Ohio	30, 286 13, 864	• • • • • • • • • • • • • • • • • • • •			5		1			
Easton, Pa East Orange, N. J. East Providence, R. I. East St. Louis, Ill. Eau Claire, Wis	30, 854 43, 761	4	····i	•••••	10		2 2		••••	
East Providence, R. I	18 485		2				. 1		1 2	
East St. Louis, Ill	77,312	13	1,		11 10		. 3	·····	2 2	1
Eau Claire, Wis Elgin, Ill	18,887	17	•••••		10	•••••	3		2	•••••
Elizabeth, N. J. Elkhart, Ind. El Paso, Tex. Elwood, Ind. Englewood, N. J.	28, 562 88, 830		4		81]	10		2	•••••
Elkhart, Ind	22, 273	7		···i	1	· · i			,	
Elwood Ind	69,149 111,028	60 8								- 4
Englewood, N. J	12,603	5	1		3					
Erie, Pa. Eugene, Oreg. Eureka, Calif. Evanston, Ill.	76, 592	••••••	2		20		20 3 2	•••••	3	•••••
Eureka, Calif	14, 257 15, 142	····i	1				2			•••••
Evanston, Ill	29, 304 (9	2 5		3		6			•••••
Everett, Mass Everett, Wash	40, 160	12	5	1	30	1	4	•••••	1	1
Fairmount, W. Va	37, 205 16, 111		1		10	·····	2 3	:::::l	·····	•••••
Pall Divor Mose	129,828	34	8 1				1.1		4	4
ran priver, mass							3			
Fairmount, W. Va. Fall River, Mass. Fargo, N. Dak	17,872	2	1		3	•••••	•		•••••	
Farrell, Pa. Findlay, Ohio. Flint, Mich.	129, 828 17, 872 16, 190 114, 858 57, 386	2 4 22	. 6		6 3 1 2				2	i

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Me	sles.	Sca	rlet er.		ber- osis.
City.	(estimated by U. S. Census Bureau).	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Fond do Lee Wie	91 486		1				1			
Fond du Lac, WisFort Dodge, IowaFort Scott, Kans	21,486 21,039				6		1			
Fort Scott, Kans	10,564	0	·····		6		3		}	
Fort Smith, Ark Fort Wayne, Ind. Fort Worth, Tex. Fostoria, Ohio. Freeport, Ill.	29,390 78,014	21			23		38		2	
Fort Worth, Tex	78,014 109,597 10,959	21 39	2		J <u>:</u> -		1		2	
Fostoria, Ohio	10,959 19,844	6			1 2		2	i	i	
Freeport, Ill	11.034	2			20		1 4		ļ <u>.</u> .	
Fremont, Ohio. Galesburg, Ill Galveston, Tex. Gardner, Mass. Gary, Ind.	94 690	6			3				l <u>-</u> -	1
Galveston, Tex	42,650 17,534 56,000 13,915	10 3					ļ		3	:
Garv. Ind.	56,000	10	2	i			7	1		
Geneva, N. Y	13,915	2			1	• • • • • •	2			
Glens Falls, N. Y	17, 160	6	····i		13					1
Gary, Ind. Genewa, N. Y. Genewa, N. Y. Glousester City, N. J. Grand Rapids, Mich Grant Ralpids, Mich Great Falls, Mont. Greety, Colo. Green Bay, Wis. Greensburg, Pa.	17, 160 11, 375 132, 861 15, 890	46	2		209	2	7		3	
Granite City, Ill	15,890	4			12		1		• • • • • •	
Great Falls, Mont	13,945	6 2	2	•••••	5	• • • • • •	2			•••••
Green Ray. Wis	11,942 30 017	2					2			
reenfield, Mass	30,017 12,251 20,171	3 7			15					
dreensboro, N. C	20, 171	7		• • • • • • • • • • • • • • • • • • • •	••••;•	• • • • • •				1
reensburg, Pa	15,881 19,591	5	6	2	1	•••••	2 1			• • • • •
Hackensack, N. J.	17,412	9			4		2 !			
Hammond, Ind	17,412 27,016 73,276 17,345	12	2		54		5	• • • • • •		• • • • •
Harrisburg, Pa Harrison, N. J	73,276	•••••	1	•••••	3		1			•••••
Hartford, Conn	112.831	35	9		32		5		2	
Hartford, Conn	112,831 49,180	9	6		36		1		2 1	••••
Hibbing, Minn	17,550 33,859 78,324	••••••	2		12				1	• • • • •
Johoken, N. J	33,859 78 324	5 19	2		12		8		····i	
Joboken, N. J	13.459 #	4								
Iolyoke, Mass Iomestead, Pa	66,503	22	1		8	1 (3-		2	. 2
Iomestead, Pa	23,071 17,690	9	. 1	•••••	3					•••••
Iot Springs, Ark	116, 878	32	10		27		1			i
iouston, Tex Huntington, Ind Huntington, W. Va. Independence, Mo. Indianapolis, Ind Owa City, Iowa Tonton, Ohio	10 989 1	4	•••••	• • • • • •	2		2			• • • • • ;
ndependence Mo	47,686	28 10	····2				2		i	
ndianapolis, Ind	11,964 283,622	89			357		20		6	8
owa City, Iowa	14,626						1			· · · · · ·
ronwood Mich	10,079	7 2	•••••							
rvington, N. J.	16,710	1			3		2		2	
ronwood, Michrvington, N. Jshpeming, Michthaca, N. Y	15,095 16,710 112,448 16,017	3				•••••			1	1
Inaca, N. Y	16,017 15,506	5 10	•••••		4		4		1	
tnaca, N. Y acksonville, Ill. amestown, N. Y anesville, Wis. efferson City, Mo. ersey City, N. J ohnstown, Pa.	37,431 1	13			9		i		i	• • • • • •
anesville, Wis	14,411				5		6	•••••		• • • • •
enerson City, Mo	14,411 13,712 312,557	5	12		69		4		17	• • • • • •
ohnstown, Pa.	70,437 1		î		1]	i			· · · · · ·
oplin, Mo	33.400 l	5			.2	· · · · · ·]			ا ني	• • • • • •
Alamazoo, Mich	50,408 14,270	22	2		15		3 1		8	. 2
Kalamezoo, Mich Kankakee, Ill Kansas City, Kans	102,096 [8		30		3 !		5	
Cansas City, Mo	205.816	89	11		53	1	8	1	5	5
Cansas City, Mo. Cearny, N. J. Ceane, N. H. Cenocha, Wis. Cewanee, III.	24,325 10,725 32,833	8 2			41		4			•••••
Cenosha, Wis	32, 833		2		3		4			
Cewanee, III	13.607	4			11	<u>.</u> .	1		ا.ي	••••••
noxville, Tenn	59, 112 21, 929	6	1	···i	23 10	7	7 8	••••••	3	1
ackawanna, N. Y	16, 219	2	2	1	l					<u>.</u>
	31,833	- 1	- 1		7	1				•••••
& Crosse, Wis	91,000 }	• • • • • • • • • • • • • • • • • • • •	•••••							
Ackawanna, N. Y	21,481 14,930	8 2	2	1	12		1		· · · · · ·	1

⁴ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria	Me	asles.	Sc. fe	arlet ver.		nber- losis.
City.	(estimated by U. S. Census Bureau).	from all causes.	S	Deaths.	S S	Deaths.	Chase.	Deaths.	Cases	Deaths.
Lancaster, Pa	51, 437		4	ļ	26	 	5		. 8	
La Salle, Ill. La Salle, Ill. Lawrence, Kans. Lawrence, Mass. Leavenworth, Kans. Lebanon, Pa. Leominster, Mass Lexington, Ky Lima, Ohio. Lincoln, Nebr. Lincoln, R. I.	51,437 12,332	5			1				. 1	
Lawrence, Kans	13,477 102,923	23 23	i		22		9	· [. 6	1
Leavenworth Kans	1 19, 363	6	l							"
Lebanon, Pa	20, 947				1					
Leominster, Mass	21,365					 	1		. 3	
Lexington, Ky	41,997 37,145	21			2.		, 1		- 4	2 2 1
Lincoln, Nebr	46,957	12	2		85		5		. 1	1 3
Lincoln, R. I	10,473				1					1
Little Rock, Ark. Lockport, N. Y Logansport, Ind. Long Beach, Calif.	58,716	<u>.</u> ,	1		8.					
Lockport, N. Y	20,028	5			6		4		. 3	2
Long Reach Calif	21,338 29,163	5 13	2		21		1		. 1	
	15,733	1			21 3		2		1	
Lorain, Ohio. Los Angeles, Calif. Louisville, Ky.	38 266		1		71				i	1
Los Angeles, Calif	535,485	183	78				11		771	24
	240, 808 114, 366	69	11	1	3		2	F	9	16
Ludington, Mich. Lynchburg, Va. Lynn, Mass. McKeesport, Pa. McKees Rocks	10,566	12			2	•••••	•		. 8	
Lynchburg, Va	33,497	8							i	i
Lynn, Mass	104,534 48,299	29	4		1.		19		4	4
McKeesport, Pa	48, 299	• • • • • • • •			63		• • • • • •		1	
McKees Rocks, Pa Macon, Ga	20, 795 46, 099	• • • • • • • •	1	• • • • • • •	22 3			- :		
Madison. Wis	31:315				6		5			
Madison, Wis Mahanoy City, Pa. Malden, Mass	31,315 17,709 52,243		3		ĭ					
Malden, Mass	52, 243	13	• • • • • • •	1	• • • • • • •		3		1	3
Manchester, Conn	15,859	1	9		•••••	• • • • • •	•••••		1	
Manitowoc. Wis	79,607 13,931	16		• • • • • •	4		3	• • • • • •	6	. 2
Mankato, Minn	1 10, 265	2	1		5					
Manchester, N. H. Mantowoc, Wis. Mankato, Minn Marinette, Wis	1 14,610 19,923						2			
	19,923	9	1	1	23	1	• • • • • • •	• • • • •		
Marion, Ohio	24, 129 12, 555	5	1		7		•••••	• • • • • •		•••••
Martinsburg, W. Va.	12,984		3					•••••		
Martins Ferry, Ohio	10.135	11			2					i
mason City, Iowa	14,938	4.		• • • • • •	ا-يا			• • • • •		
Mattoon, Ill	12,764 13,968		···i		9 2		•••••	• • • • •	• • • • • • •	• • • • •
Medford, Mass	26,681	13	2		1		4			
Melrose, Mass	17,724	4			27					i
Meadville, Pa. Medford, Mass. Melrose, Mass. Memphis, Tenn	17,724 151,877	59	4	1	1		3		8	7
Meriden, Conn	129, 431 14, 320	2	2		1		3	• • • • •	• • • • • •	• • • • • •
Meriden, Conn. Methuen, Mass. Middletown, N. Y	15,890	Z			i		1 8		1	•••••
Middletown. Ohio	16, 384	4	1		2		1			
Milwaukee, Wis	445,008	121	16	2	94		20		23 19	10
Minneapolis, Minn Mishawaka. Ind Missoula, Mont.	373, 448 17, 083	103	15	. 2	57		11	1	19	15
Missoula, Mont	19, 075	2			j		1.	• • • • • • •		•••••
Mobile, Ala	59, 201	16								4
Monessen, Pa. Montelair, N. J.	23,070		1 .		.ا.ي	.				
Montgomery Ala	27, 087 44, 039	14	••••• •		3	•	1	• • • • • • • •	3 3	••••••
Mcrgantown, W. Va.	14, 444	3	i i				2			
Montgomery, Ala	13, 410	6	i :							•••••
Mount Carmal Pa	11, 515	5 .	· i			.				•••••
Mount Carmel, Pa	20, 709 37, 991	6	1		39		1 2	····-	····i	•••••
Miinea Ind	25, 653	12	2	i	7		6		•	•••••
Muscatine, Iowa	17 712	6 .								•••••
Muscatine, Iowa	47, 173	· -	:- -		36 .	-	···· <u>k</u> · ·			
Nachia N H	23, 811 . 27, 541	9.	1 .				2			
Nashville, Tenn	110 126	42	2		7		2		5	^ 2
	410 700 1	440	22	- 1	200	- 1	22			14
Newark, N. J New Bedford, Mass	418, 789 121, 622 55, 385	117 82 17	1	•••••	305 6	9	5	•••••	85 : 5	16 8 1

¹ Population Apr. 15, 1910.

	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	Desths.	Cases.	Desths.	Cases.	Deaths.
New Brunswick, N. J. Newburyport, Mass.	25, 855						1			
	15, 291 14, 144	3 5	·····	 	4	ļ	····i	···i	····;	
New Haven, Conn	152, 275	59	8		28 65	ļ.,	15	<u>.</u>	25	i
New Orleans La	152, 275 21, 199 377, 010	149	4	1	65		2	····i	18	····;
New York, N. Y	1 K 737 AQ9	1,445	289	29	1, 184	20	128	4	231	14 121
New Vasile, ind. New Hoven, Conn New London, Conn. New Voleans, La. New York, N. Y. Niagara Falls, N. Y. Norfolk, Va. Norristown, Pa. North Adams, Mass	38, 466 91, 148 31, 969	14	l····i·		70		5 1	·····	2	2
Norristown, Pa	31, 969		<u>.</u>		4 3		2			
North Adams, Mass	1 22, 019 20, 006	6 10			1		2		ļ _ģ .	Î
North Attleboro, Mass	11, 248 15, 684	10							2 1	.
North Braddock, Pa. North Tonawanda, N. Y. Norwalk, Conn. Norwook, Ohlo. Qakland, Callif. Qak Park, Ill. Qgdensburg, N. Y. Qli City, Pa. Qisahoma City, Okia. Olean, N. Y. Olmaha, Nebr.	15, 684 14, 060				2			····i		
Norwalk, Conn.	27, 332	7			2		2 1		2 1	
Norwich, Conn	21, 923 23, 269	12	2	· · · · · · · ·	····i					4
Qakland, Calif	206, 405	45	3		3		2 5 9		1 2 1	8
Oak Park, Ill	27, 816 1 16, 845	10 3	• • • • • •		1		9		1	
Qil City, Pa	20, 152 97, 588				i		5 6		i	•••••
Oklahoma City, Okla	97, 588 16, 927	24 7	2		86	1	6	•••••	• • • • •	4
Qmahs. Nebr	177,777	43	i		54		19			
Omaha. Nebr Orange, N. J. Oshkosh, Wis	33. 636 4	15	3		2 22	}	1 3		2	ı.
Paducah, Ky	36, 549 25, 178	•••••	····i		13		2	•••••	2	
Paducah, Ky Parkersburg, W. Va Parsons, Kans	21.059 (5			28					
Parsons, Kans	15, 952 49, 620 74, 478	17	•••••		16	•••••	••••	•••••	2 2	•••••
Pasadena, Calif	74, 478	10	3		14	1	1		3	-
Paterson, N. J	140, 512 60, 666	6 22	3 2 2		122		1		7	2
Peckskill, N. Y	19, 034 72, 184	1				3	l			i
Perth Ambov N I		23	4	• • • • •	13		3	•••••	2	2
Peoria, Ill Perth Ambov, N. J. Petersburg, Va. Philadelphia, Pa. Phillipsburg, N. J.	25, 817 1, 735, 514 15, 879 14, 275	8			2 1					2
Philadelphia, Pa	1, 735, 514	531 4	86	9	526	5	75	1	74	. 67
Piqua, Ohio	14, 275	4			31				•••••	
Pittsburgh, Pa	586, 196 39, 678 18, 975 24, 330	10	12		200		17	•••••	18 2	-
Pittston, Pa	18, 975				5		ï			
Plainfield, N. J	24,330 13,111	3	i	•••••	6 13		2 1		2 2	-
Plymouth, Mass	14,001 (3								i
Plymouth, Pa	19, 439 18, 006	6	2		i		2 3	····-¦	•••••	
Port Chester, N. Y.	16 727 1	8 10	2 4 2 2]	1			
Phillipsburg, N. J. Piqua, Ohio Pittsburgh, Pa. Pittsdeld, Mass. Pittston, Pa. Pittston, Pa. Plainfield, N. J. Plattsburg, N. Y. Plymouth, Mass. Plymouth, Mass. Plymouth, Pa. Pontiac, Mich Port Chester, N. Y. Port Huron, Mich Portland, Me. Portland, Oreg. Portsmouth, N. H. Pottstown, Pa. Pottsville, Pa. Providence, R. I. Pueblo, Colo Onincy, III.	1 18, 863 64, 720 308, 399	10 19	2	• • • • • • •	3		2 7		••••••	••••••
Portland, Oreg.	308, 399	53	3		12		5	i	4	8
Pottstown Pa	11, 730 16, 987		1		3 6		•••••		•••••	· · · · · · ·
Pottsville, Pa	22,717								2	
Providence, R. I	22, 717 259, 895 56, 084	80	30	4	21 5	••••••	17	1	•••••	8
Quincy, Ill.	36, 832 1	16					3			1
Quincy, Mass	20 000 1	8	2		27]	1		i	1
Rahway, N. J.	47, 465 10, 361	2	1		2		3			•••••
Raleigh, N. C		12	5		···i				····i·	•••••
Redlands, Calif.	14, 573	3				:::::1		:::::	2	····i
Heno, Nev	111, 607 14, 573 15, 514 25, 090	5	···i		27	1				••••••
Richmond, Va.	100.704 1	40 12	3		103	2	5	::::::	27	i
Riverside, Calif	20, 496 46, 282	12	2		2 2	•••••		••••••	3	3
Onincy, III. Ouincy, Mass. Racine, Wis. Rakway, N. J. Raleigh, N. C. Reading, Pa. Redlands, Calif. Rano, Nev Richmond, Ird. Richmond, Ird. Richmond, Va. Riverside, Calif. Roanolo, Va. Rechester, N. Y.	264, 714 1	6 66 11	12	3	92	···i	12	::::::	5	
Hookford, III	56, 780	11	l	1	2]		51.			•••••

¹ Population Apr. 15, 1910.

	Popula- tion as of July 1, 1917	Total deaths	Diph	theria.	Me	asles.		arlet ver.		iber- losis,
City.	(estimated by U. S. Census Bureau).	from all causes.	i i	Deaths	1	Destite	8	Deaths.	O De Se.	Deaths.
Rock Island, III Rocky Mount, N. C. Rome, N. Y. Rutland, Vt.	29, 452 12, 673	12	1		12		1			
Rocky Mount, N. C	12,673 24,259	3	i		1		4		2	
Rutland, Vt	15,038	3	2		18					
St Cloud Minn	68, 984 12, 013	24	i		26	1	1			
St. Joseph, Mo St. Louis, Mo St. Paul, Minn Salem, Mass Salt Lake City, Utah San Angelo, Tex	86, 498	23	2	1			4			
St. Louis, Mo	768, 630 252, 465	225 51	58 12	6	535 51	7	37 10	1	52 6	1
Salem. Mass.	49, 346 121, 623	9	l i				5		ı	
Salt Lake City, Utah	121, 623	32	1		2		. 1		6	
San Angelo, Tex	1 10, 321 17, 616	3							····	
San Diego, Calif	56, 412	38	 		i		4		4	1 4
Sandusky, Ohio	20, 226	5	ļ	·····	. 8	·····	2		8	
San Francisco, Calif	11, 217 471, 023	5 158	19	ıi.	43	2	12	i	30	1
Santa Barbara, Calif	15, 360	5	1	ļ <u>.</u> .	ļ <u></u> .	ļ <u>.</u> .	ļ	ļ <u>.</u> .	. 6	ļ
Santa Barbara, Calif	13, 839 14, 130	1 2	1	ļ			2	·····	1	ļ
Sault Ste. Marie, Mich Savannah Ga	69, 250	22	1		10 10				3	
Savannah, Ga. Schenectady, N. Y. Scranton, Pa. Seattle, Wash. Shamokin, Pa. Sharon, Pa. Sheboygan, Wis. Shengalogab. Pa.	69, 250 103, 774	14	2	i	7				5	3
Scranton, Pa	149.541	-	.5		3		1 .1		3	
Seattle, Wash	366, 445 21, 274		10		134		11 3			• • • • • •
Sharon, Pa	19, 156				9				l	
Sheboygan, Wis	28, 907				12		9			
Shenandoah, Pa Sioux City, Iowa	29, 753 58, 568	• • • • • • • •	1				3			
Sioux Falls, S. Dak	16, 887	7			17		3			
Sioux Falls, S. Dak	88, 618	21	4		42		7		4	
South Bend, Ind	70, 967 14, 46 5	11 6			20 1	•••••	9		4	` ;
Spartanburg, S. C.	21, 985	6			i		i			
Southbridge, Mass. Spartanburg, S. C. Spokane, Wash Springfield, III Springfield, Mass. Springfield, Mass.	157, 656				110		4			
Springfield, III	62, 623 108, 668	25 33	1 2		38	• • • • •	10		5	
	41, 169 52, 296	14								2
Springfield, OhioStaunton, Va	52, 296	20			22		3		2	1
Staunton, Va	11, 823 28, 259	11 13	1	•••••	i		5 2		•••••	• • • • • •
Steubenville, Ohio Stillwater, Minn Stockton, Calif	1 10, 198	3								
Stockton, Calif	36, 209	10	1		7					
Sunbury, Pa	16, 661 47, 167	7	1 5	····i·	86 8	····i·	3		4	····i
Syracuse, N. Y	158, 559	42	4	ī ļ	9	1	3 13		4	î
racoma, Wash	117, 446				18		2 1		6	
Perre Haute Ind	35, 610 67, 361	25 24	2		50		2		1	i
Piffin, Ohio	12,962	10			2					
sunotiry, Fa. superior, Wis. yracuse, N. Y. Facoma, Wash. faunton, Mass. Ferre Haute, Ind. Fiffin, Ohio. Foledo, Ohio. Foroka, Wans	202,010	69 27			119 17		18	2	9	6
Propeka, Kans	49, 538 14, 090	4			2					-
rraverse City, Mich. Frenton, N. J. Frinidad, Colo. Froy, N. Y. Fucson, Ariz.	113, 9/4	21	1]]	1]	6	2
Crinidad, Colo	14, 413 73, 094	20	···· ₂ ·			······j	2		10	3
Pucson, Ariz	17, 324	13								
uscaloosa, Ala	10, 824						1		2	· · · · · ·
Jniontown, Pa	21,600 13,803	4	2		6		r	•••••		•••••
	13, 805				i		15			
vancouver, wash	15, 954	9	1							•••••
V820, TCXValle Wash	34, 015 26, 067	9					3		•••••	•••••
	26, 067 31, 011 369, 282 22, 076 89, 201 15, 188	12 105	3 13				3		2 2 27	
Vashington D.C.	369, 282	105	13	1	20		15		27	9
Washington, Pa	22, 076 89, 201		3	•••••	17		···ii		·····	·····à
Washington, Pa	15, 188	3 .			20 17 13 16 1 45		4 2		5 1	
Natortown N V	30, 404				1 .		2	1		
T7	19, 666	9 .							1	

¹ Population Apr. 15, 1910.

City Reports for Week Ended Apr. 3, 1920—Continued.

	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.
Westfield, Mass West Hoboken, N. J West New York, N. J West Orange, N. J Wheeling, W. Va White Plains, N. Y. Wichita, Kans Wilkos-Barre, Pa Wifkinsburg, Pa Williamsport, Mass Wilmington, Ed Wimington, Ed Wimington, M. C. Winchester, Mass Winona, Minn Winston-Saleus, N. C. Winthrop, Mans Woburn, Mass Worcester, Mass Worcester, Mass York, Pa Zanesville, Ohlo	19, 013 13, 964 43, 657 23, 331 73, 597 78, 334 22, 899 30, 400 10, 812 18, 583 33, 136 13, 105 16, 076 166, 106	11 13 7 4 222 5 26 41 7 3 6 16 2 2 2 5 7	3 2 3 2 4 3		4 9 8 1 17 7 23 12 35 2 1 1 12 35	1	2 2 1 6 1 1 2 65 2	1	1 2 4 2 1 2 5	22

¹ Population Apr. 15, 1919.

172494°—20——3

FOREIGN AND INSULAR.

CHINA.

Examination of Rats-Plague-Infected Rats-Hongkong.

During the period July to December, 1919, 52,515 rats were reported examined at Hongkong, with the finding of 63 plague-infected rats. During the months of January and February, 1920, 11,270 rats were reported examined, with one plague-infected rat found.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana as follows:

· · · · · · · · · · · · · · · · · · ·	Mar. 21-	Remain- ing under	
Discase,	New cases.	Peaths.	treatment Mar. 21, 1920.
Bronchopneumonia, Cerebrospinal meningitis. Chicken pox. Diphtheria Influenza.	12 4 30 4 25	7 3	1 11 48 1
Lepresy. Malaria. Measles. Parat -phoid fever.	78	4	10 2 18 151 2
Scarlet fever. Smallpox Typhoid fever.			9 2 139

¹ From abroad, 7.

ECUADOR.

Proposed Tuberculosis Sanitarium-Alausi.

According to information dated March 9, 1920, the commission appointed by the Guayaquil board of charities, has selected the site for a tuberculosis sanitarium, designed to meet the needs of all classes of the community, at Alausi, a town of about 2,000 inhabitants, situated on the Guayaquil & Quito Railway and at an altitude of about 8,573 feet. Conditions of climate, air, and natural drainage are stated to be highly favorable for the treatment of tuberculosis.

From the interior, 18.

² From the interior, 12.

TURKEY.

Typhus Fever-Constantinople-Influx of Russian Refugees.

Information dated March 4, 1920, shows an increase in typhus fever prevalence at Constantinople, Turkey, occasioned by an influx of Russian refugees. On Princes Island, situated about 15 miles distant from Constantinople, in the Sea of Marmora, 50 cases were reported among 800 refugees cared for by the American Red Cross.

Typhus fever was reported at Constantinople in November and December, 1919, with 49 cases and during February, 1920, with 46 cases.

INFLUENZA.

The following information was taken from reports received during the week ended April 23, 1920:

Place.	Date.	Cases.	Deaths,	Remarks.
Australia: South Australia, State				Feb. 8–28, 1920: Cases, 20; deaths,
Sydney	1			4. Present.
Bolivia: La Paz	Feb. 8-14			
Canada: Nova Scotia—				
Halifax Prince Edward Island—	Mar. 28-Apr. 3			
Summerside Ceylon	Apr. 3-9			Present. Dec. 1–31, 1919: Deaths, 77, in 33
Colombo	Feb. 8-21		· 21	towns. Dec. 1–31, 1919: Deaths, 49.
Cuba: Caimanera	1			Present.
Denmark: Copenhagen	Feb. 29-Mar. 6	1,396	37	e e e e e e e e e e e e e e e e e e e
France: Havre	Mar. 22-28 Feb. 10-20		2 75	
ParisGreat Britain:	_ 00.00	•••••	"	In 06 great towns Mar 7-12
England and Wales		•••••		In 96 great towns. Mar. 7-13, 1920: Deaths, 230. Mar. 14-20, 1920: Deaths, 312. Popula
London	Mar. 7-13		57	tion, 16,577,344. Greater London and Outer Ring, 115 deaths.
Do	Mar. 14-20		91	Greater London and Outer Ring, 193 deaths.
Scotland				Mar. 7-13, 1920: Deaths, 4; with influenza complications, 15 deaths. Mar. 14-20, 1920: Deaths, 3; with influenza com- plications, 17. In 16 principal towns, population, 2,416,900.
Greece: Saloniki	Feb. 22-29			Present.
India: Madras Rangoon	Feb. 22-Mar. 6 Feb. 15-21		8 29	•
Italy: Milan	Dec. 1-31			Present.
Mexico: Vera Cruz	Mar. 29-Apr. 4	15		
Netherlands: Amsterdam	Sept. 28-Dec. 31		13	
Norway: Christiania	Mar. 7-13		1	•
Spain: MalagaValencia	Feb. 1-29 Mar. 14-20	3	77 3	
Sweden: GothenborgStockholm		215 9	3	
Switzerland: Besel Zurich Do	Feb. 8-28 Feb. 1-28 Feb. 29-Mar. 6	4,612 4,657 262	63 100 29	Canton and city. Canton.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER. Reports Received During Week Ended Apr. 23, 1920.1

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India	Feb 15-21			Feb. 1-14, 1920: Deaths, 3,734
Bombay MadrasJava:	Feb. 15-21 Feb. 22-Mar. 6	4	2	
East Java Batavia	Feb. 6-12	i		Feb. 6-12, 1920: One case.
	PLA	GUE.		
Brazi.: Bahia	Feb. 22-28	1	1	
British East Africa: Kisumu	Feb. 15–21			Present in vicinity.
Mombasa	Feb. 8-21do	8	1 8 10	Do.
Colombo Egypt: Alexandria	Feb. 18	1	10	
IndiaBombay	Feb. 15-21	5	4	Feb. 14-21, 1920: Cases, 6,498 dcaths, 4,959.
Karachi Madras Presidency Rangoon	Feb. 22-28 Feb. 22-Mar.6 Feb. 15-21	764 62	556 60	
	SMAL	LPOX.		
			<u> </u>	
Bolivia: La Paz	Feb. 8-14	5	6	
Brazil: Bahia Para	Feb. 22–28 Mar. 21–27	17 8	7	
Canada: New Brunswick—				
Gloucester County Ontario	January-March	14 1		Mar. 21-27, 1920: Cases, 77. In 1
Fort William and Port Arthur. Quebec—	Mar. 28-Apr. 3	1	••••••	counties; 25 localities.
Bonavencure and Gaspe Counties,	Mar. 1-31	15		•
Ceylon: Colombo	Feb. 8-11	1	1	
gyp.: Alexandria	Mar. 5-11	25	17.	
Greece: Saloniki India	Feb. 22-29	1	2	Drama, 2 cases. Feb. 1-14, 1920: Cases, 2,724.
BombayKarachi	Feb. 15–21 Feb. 22–28	32 3	14 3	
Madras Rangoon	Feb. 22-Mar. 6 Feb. 15-21	28 20	5 5	
taly: Genoa. Leghorn.	Mar. 1-7 Mar. 9-15	10 2		Province: Feb. 23-29, 1920: Cases 14.
Milan ava: West Java	Dec. 1-31	3		Feb. 6-19, 1920: Cases, 114
Batavia Mexico:	Feb. 6–19	9	2	deaths, 30.
San Luis Potosi Portuguese East Africa Inhambane	Mar. 29-Apr. 4 Feb. 22-28	3	1	Feb. 22-28, 1920: Present in interior.
Lourenco Marques Quelimane	do	6 3		
Spain: Valencia Union of South Africa:	Mar. 14-20	20		
Johannesburg	Jan. 1-31	5		

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

Reports Received During Week Ended Apr. 23, 1920—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Bolivia: La Paz	Feb. 8-14	3	3	
Egypt: Alexandria	Mar. 5-11	46	11	·
Greece: Saloniki	Feb. 22-29	12	2	At Drama, 2 cases; Protosani, 2.
Mexico: SaltilloSan Luis Potosi	Mar. 28-Apr. 3 Mar. 29-Apr. 4	1	<u>ı</u>	
Turkey: Constantinople	Mar. 4			Increase reported due to influx
Princes Islands	do	50	•	of Russian refugees. About 15 miles distant from Constantinople. In Sea Marmora.

Reports Received from Dec. 27, 1919, to Apr. 16, 1920.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy	Nov. 4-17	.	2	1
Chosen (Korea)		.	1	Oct. 20-Nov. 16, 1919: Cases,
Chemulpo	Oct. 1-31	. 6	4	3,425; deaths, 3,144. Aug. 15-
Fusan	do	. 34	30	Nov. 16, 1919: Cases, 15,192:
Provinces—	ł	1	!	deaths, 9,823.
Keiki	Aug. 15-Nov. 16	. 224	135	1
Kogen	do	. 64	38	i .
Kokai	dodo	4,015	2,770	1
North Chusei	do	. 1	1	i .
North Heign	.do	. 3.196	2,434	1
North Kankvo	do	497	275	
North Keisho	l	. 1 63	35	• •
North Zenra	do	1.326	692	i
South Chusei	do	930	590	
South Heign	do	3,031	1,858	1
South Kankvo	do	870	551	}
South Kaisho	do	318	156	
South Zonra	do	657	288	
Greece:				
Saloniki	Oct. 10	1	ł	
India.		1 -		Oct. 19-Dec. 27, 1919: Deaths.
Bombay		i	1	23,388. Jan. 4-31, 1920: Deaths,
Do		2	2	8,967.
Calcutta			166	, 3,801.
		103	98	f .
Do			5	
Madras		19	7	i
Do		12	ģ	
Rangoon		3	3	
Do	Dec. 25-3811. 31		•	
ndo-China: Saigon	Oct. 27-Nov. 23	5	4	
	Oct. 21-100. 23	•	-	·
Japan: Kobe	Nov. 24-30	2		
		_	• • • • • • • • • • • • • • • • • • • •	For entire island: Oct. 22-Nov.
Taiwan		····i	1	30, 1919: Cases, 651; deaths, 385.
Tokyo	NOV. 10-20	1 1		30, 1919. Cases, 001, deaths, 309.
ava:	1			Oct.5-11, 1919: One case, 1 death.
East Java				At Pasoeroean.
TT -4 T	1			Nov. 5-Dec. 25, 1919: Cases, 17.
West Java		• • • • • • • • • • • • • • • • • • • •		
Batavia		17	•••••••••••••••••••••••••••••••••••••••	Jan. 24-29, 1920: Cases, 1.
Do	Jan. 24-29	1	1	
Philippine Islands:	N 0 D-0 97	20	10	
Manila	Nov. 2-Dec. 27	20	10	Mars 0 Dec 07 1010: Cones 1 574.
Provinces				Nov. 2-Dec. 27, 1919: Cases, 1,574;
Albay	Nov. 2-Dec. 27	339	240	deaths, 1,151.
Ambos Camarines	Nov. 2-Dec. 20	66	34	
Antique	Nov. 2-Dec. 27	160	113	
Batangas	do	39	28	

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Philippine Islands—Continued				
Provinces—Continued.	1			
Bohol Cagayan	Nov. 3-15	34 35	27 20	•
Capiz.	Nov. 3-15 Nov. 2-8 Nov. 2-Dec. 6	8	5	ì
Cavite	Nov. 2-Dec. 6	25	16	
Cebu	NOV 2-Dec. 20	23	14	1
Davao	Nov. 9-15	6 42	40	
Ilocos NotreIlocos Sur	Nov. 9-15 Nov. 2-29 Nov. 2-22	18	15	
Iloilo	Nov. 2-Dec. 20	55	33	
Isabela	Nov. 2-Dec. 20 Nov. 2-Dec. 13 Nov. 2-Dec. 20 Nov. 2-Dec. 6	167	77	[
Laguna	Nov. 2-Dec. 20	23 81	17	
Mindoro Mountain	Nov. 2-Dec. 6	6	30	
Occidental Negros	Nov. 2-Dec. 13 Nov. 2-Dec. 27	100	53	**
Pangasinan	Nov. 30-Dec. 20	60	46	1994
Rizal	do	41	15	
Sorsogon	Nov. 2-Dec. 13 Nov. 2-22 Nov. 2-Dec. 27 Nov. 9-15	208 11	139 11	·
Tarlac Tayabas	Nov. 2-Dec. 27	60	35	# c
Union		5	5	4:0
Manila	Feb. 8-28	2	ļ	
Provinces	Doc 00 Feb 00			Dec. 28, 1919-Feb. 28, 1920: Cases, 862; deaths, 577.
Albay Ambos Camarines	Dec. 28-Feb. 28 do	62 287	40 196	802; deaths, 577.
Antique	ldo	219	60	
Batangas	Dec. 28-Feb. 14	19	12	
BatangasCavite	Jan. 11-17	1	1	
Iloilo	Dec. 28-Jan. 3 Jan. 11-17	9	2 3	
Isabela. Laguna	Dec. 28-Jan. 3	2	2	
Mindoro	Jan. 4-24	24	ากั	
Mountain	Dec. 28-Jan. 10	11	6	
Occidental Negros	Jan. 4–17 Jan. 11–Feb. 28	21 59	19	
Palawan Pangasinan	Dec. 28-Jan. 3	1	37	
Rizal	Feb. 1-7	3		
Samar	Jan. 4-24	44	30	
Sorsogon	do	51 33	40 19	
Poland:	Jam. 4-red. 20	33	. 19	
Garwolin				Present in November, 1919.
Kowal				Do.
Stryi				Do.
Russia: Novorossisk	Nov. 8-11	3		
Odessa	Oct. 25-Nov. 7	93		
Siam:				
Bangkok.	Dec. 7-27	163	57	Oct. 5-Dec. 15, 1919: Deaths,
Do Straits Settlements:	Dec. 28-Feb. 7	92	38	1,080.
Singapore	Oct. 5-Dec. 27	15	14	
Do	Dec. 28-Jan. 17	4	2	
Sumatra:	0.4 • 01	1	_	
Deli	Oct. 1-31 Nov. 1-30	1	1	
motan	140 y . 1-50	- 1	•	
	······································			
	PLA	GUE.		
		1		
Argentina: Rosario	Dec. 1-31	l	7	
RosarioBrazil:	Dec. 1-01		1	
Bahia	Nov. 9-15	1	1	•
Do	Ian 95_31	1	1	·
Porto Alegre	Nov. 1-30 Nov. 2-Dec. 27 Jan. 11-17		3	
Do	Jan. 11-17	1		
British East Africa:	1			_
Kisumu	Sept. 28-Nov. 1	6	6	Dec. 14-20, 1919: Present in
Do	Feb. 1-7	1 6	1	vicinity.
AUDITURISSI	do]	.01	9)	

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:	Oat on Dan on			
Colombo Do	Oct. 26-Dec. 27 Dec. 28-Feb. 7	36 33	35 10	
Chile: Antologasta Do	Dec. 8-14 Feb. 8-14	1 1		
China: Hongkong Do	Dec. 7-13 Feb. 1-7	1	i	
Ecuador:	Nov. 1-31	_	<u> </u>	
Egypt	Jan. 1-Feb. 28	31		Jan. 1-Dec. 25, 1919; Cases, 867 deaths, 469. Jan. 1-Mar. 11
Cities— Alexandria	Dec. 3	1	1	1920: Cases, 81; deaths, 48. From vessel Rachid Pacha from
Port Said	Feb. 13 Feb. 1-Mar. 5	1 3	2	Constantinople, Saloniki, and Smyrna.
Provinces— Assiout Do	Nov. 15-21 Jan. 13-Mar. 9	30 48	17 24	
Fayoum Girgeh Minieh	Mar. 2	1 3	1 3 2	
Greece: Saloniki.	Oct. 6-Dec. 21	9 19	7	
Hawaii: Kaloha India	Feb. 23-Mar. 23	-1	2	Oct 10_Dec 97 1010: Cases
Bombay Do	Oct. 19-Dec. 27 Jan. 4-Feb. 14	6 13	6 11	Oct. 19-Dec. 27, 1919: Cases, 31,542; deaths, 23,443. Dec. 28, 1919-Feb. 14, 1920: Cases, 30,094;
Calcutta Karachi Do	Jan. 25-31 Nov. 9-29 Jan. 11-17	1 3 2	1 2	deaths, 23,581.
Madras Presidency Do	Nov. 9-Dec. 27 Dec. 28-Feb. 21 Jan. 25-Feb. 14 Nov. 2-Dec. 27 Dec. 28-Feb. 14	1,068 3,273	704 2, 412	
MadrasRangoonDo	Nov. 2-Pec. 27 Dec. 28-Feb. 14	29 173	27 27 165	Oct. 19-Nov. 1, 1919: Cases, 10, deaths, 7.
Indo-China: Saigon Do	Oct. 27-Dec. 7 Jan. 26-Feb. 7	11	9	•
Java: East Java			· ·	Sept. 28-Dec. 31, 1919: Cases,
Surabaya	Jan. 1-14	11	11	1,500; deaths, 1,499. Sural.aya Residency, Jan. 1-31, 1920; Cases, 25; deaths, 25.
Mesopotamia: Bagdad Peru:	Jan. 3-9	1	1	
Callao	Nov. 1-30 Dec. 29-Jan. 17	23	3 17	
Salaverry (Trujillo) Do	Nov. 23-Dec. 21 Dec. 29-Mar. 7	33 33	1 18	Present in surrounding country and in vicinity.
Se negal: Dakar Siam:	Nov. 1-30	•••••	. 146	Including Dakar and vicinity.
BangkokDo	Dec. 14-20 Feb. 1-21	4 3	2 3	
Straits Settlements: Singapore Do	Oct. 26-Dec. 27 Jan. 4-Feb. 7	7 8	6 5	
Syria: Beirut	Dec 22	29		
Turkey: Constantinople	Nov. 14-Dec. 20	11		Present Dec. 11, 1919. Nov. 14- 20, 1919: Present in vicinity.
On vessel: S. S. Alps Maru	Feb. 28-Mar. 5	2	2	At Port of London, England. Vessel left Yokohama, Japan, Dec. 3, 1919; arrived Suez Jan.
S. S. Kaisar-i-Hind	Nov. 28	3		21, 1920. Destination, Hamburg. At Port Said, Egypt. From Bombay, Nov. 15, for London.

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued. SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Almerica		+	 	
Algeria: Department—		1		
Algiers	Nov. 11-Dec. 31	65		
- Do	. Jan. 1-Mar. 10]
Constantine	. Nov. 11-Dec. 31	. 15		.
Do	. Jan. 1-Mar. 10			-
Oran Do	Nov. 11-Dec. 31 Jan. 1-Mar. 10	90		•
South Territory		5		
Arabia:	J.	1		1
Aden	Dec. 24–30 Jan. 6–20	. 1	1	1
Do	. Jan. 6-20		.] 3	· ·
Rosario	Jan. 1-31	1	. 1	• •
Austria	- Vall. 1-01		- -	Nov. 23, 1919-Jan. 3, 1920: Cases
Vienna	Nov. 23-Jan. 3	10	1	13.
Belgium:			1	1
Brussels	. Dec. 28-Jan. 31		. 2	
La Paz	June 29-Dec. 27	l	216	Dec. 29, 1918-June 28, 1919: Cases,
Do	Dec. 28-Feb. 21	21	32	86: deaths, 44. Dec. 14-20
	}	~	"	86; deaths, 44. Dec. 14-20 1919: Cases, 7; deaths, 5.
Brazil:			1	1.
Bahia	Oct. 26-Nov. 22	1,704	1,022	4 1
Para	Dec. 28-Feb. 21	514	377	
Pernambuco	Feb. 8-14	123	9	
Do	Nov. 10-Dec. 28 Dec. 29-Jan. 11 Sept. 28-Dec. 27 Dec. 28-Jan. 17	82	1 4	• .
Do Rio de Janeiro	Fept. 28-Dec. 27	429	119	
Do	Dec. 28-Jan. 17		13	1
Santos	NOV. 24-30		1	·
Do Canada:	Jan. 5-18	 -	2	
British Columbia—		l	l	
Vancouver	Nov. 30-Dec. 6	1		
Do	Jan. 4-17	Ī		
Manitoba-		_	İ	
Winnipeg New Brunswick—	Jan. 11-Mar. 6	6	 	
St. John	Jan. 29-Mar. 13	8	1	
Nova Scotia—	1			·
Halifax	Dec. 21-27	2		,
Do	Jan. 4-Feb. 14	4		
Sydney Do	Jan. 4-Feb. 14 Dec. 7-13 Dec. 28-Mar. 27	1 21	• • • • • • • • • • • • • • • • • • • •	· ·
Counties-	Dec. 20-Mai. 21	21	• • • • • • • • • • • • • • • • • • • •	
Cumberland	Dec. 14-20			Present.
Gloucester	. <u>.</u>			OctNov., 1919: Cases, 3.
Inverness	Dec. 14-20	• • • • • • • •		Present.
PictouOntario	do	• • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	Do. Nov. 1-20 1010: Come 1 673
Fort William and Port	Jan. 25-Feb. 20	6		Nov. 1-29, 1919: Cases, 1,673. Nov. 30-Dec. 6, 1919: Cases, 125, in 45 localities, exclusive of
Arthur,				125, in 45 localities, exclusive of
Hamilton	Dec. 14-20	3		Dysart and Toronto. Dec. 1-
D ₀	Jan. 4-Apr. 3 Dec. 21-27	32		Dysart and Toronto. Dec. 1- 31, 1919: Cases, 1,414; deaths, 2. Dec. 28, 1919-Mar. 20, 1920: Cases, 2,253; deaths, 35.
Kingston Do	Dec. 21-27	11		Dec. 25, 1919-Mar. 29, 1920.
North Bay	Jan. 11-Apr. 3	7		Cases, 2,200, deadles, 00.
Ottowa	Dec. 14-20	il		
Dα	Dec. 28-Mar. 27 Dec. 21-27	21	1	
Peterborough	Dec. 21-27	3		*,
D0	Dec. 28-Mar. 20	50	2	
Prescott	Jan. 4–10 Dec. 7–27	1 1		
Do	Dec. 28-Jan. 3	î!		
Toronto	Dec. 7-27	727		•
Do	Dec. 28-Mar. 27	862	7	•
Windsor Do	Dec. 14-27 Mar. 21-27	2 2	•••••••	
Prince Edward Island—	四根 . 61-61	2	••••••	,
Summerside	Feb. 14-20	3		In one family.
Quebec-		- 1		•
Bonaventure and Gaspe	Jan. 1-Feb. 28	28		Counties.
Montreal	Dec. 7-27	22		-
D ₀ Quebec	Jan. 18-Apr. 3 Dec. 7-27 Jan. 4-Mar. 6	4.	•••••	
Do	Jan. 4-Mar. 6	25		
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Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued				
Saskatchewan-		l	l	
Moosejaw Saskatoon	Dec. 28-Jan. 31 Dec. 14-20	i		1
Ceylon:	Nov. 16-Dec. 13	10	9	1
Do	Dec. 28-Feb. 7	19	ĭ	
China: Amoy	Nov. 4-Dec. 22			Present. Dec. 22: Four deaths.
Do Canton	Dec. 30-Feb. 6 Nov. 2-Dec. 27 Dec. 28-Feb. 28	1	5	Present.
Do Chungsha	Dec. 28-Feb. 28 Jan. 4-10	55		Do.
Chungking Do	do Dec. 28-Jan. 24			Do. Do.
Dairen	Feb. 3-9	i		
FoochowDo	Nov. 16-Dec. 27 Dec. 28-Mar. 6 Feb. 29-Mar. 6			Do. Do.
Hankow	Feb. 29-Mar. 6 Jan. 25-31	1	1	
Hongkong Mukden Nanking	Jan. 18-Feb. 28	. 1		Do.
Nanking Do	Dec. 6-27 Dec. 28-Feb. 7			Do. Do.
Shanghai	Dec. 28-Feb. 7 Dec. 22-28	2		20.
Tientsin Chosen (Korea):	Feb. 1-7	1	•••••	
Chemulpo Do	Dec. 1–31 Jan. 1–Feb. 29	1 10	1 3	
Fusan	Oct. 1-Dec. 31	12	î	
Do Seoul	Feb. 1-29 Oct. 1-Dec. 31	. 19	4	
Do Colombia:	Jan. 1-Feb. 29	162	44	
Barranguilla	Nov. 16-Dec. 20	50	2	
Do	Jan. 11-Mar. 6	500	4	Stated to be epidemic, Jan. 18-24, 1920. About 200 cases, Feb.
Cuba;				1-14.
Habana	Jan. 31	4		Children living in same house.
Czecho-Slovakia: Prague	Feb. 8-28	2	1	
Egypt: Alexandria	Nov 12-Dec 16	20	22	
Do	Nov. 12-Dec. 16 Jan. 1-Mar. 4	32 72	28	
Cairo Do	Oct. 1-Dec. 23 Jan. 1-Feb. 4	64 24	31 8	
Port Said	Oct. 1-Dec. 23 Jan. 1-21	13 28	6	
Finland:	7 21 31 31 31 31 31 31 31 3			
Provinces	Nov. 1-15	····i		July 16-Dec. 31, 1919: Cases, 83. Jan. 15-31, 1920: Cases, 14.
NylandSt. Michael	July 16-Dec. 15 Dec. 1-15	29 7		
Tavastehus	July 16-Dec. 31 Jan. 15-31	7		
Do Vasa.	Jan. 15-31 Dec. 1-31	6 2		-
Do Viborg.	Dec. 1-31	8 37		
France:	· ·			•
Paris Sermany	Jan. 1-31	8	2	Oct. 5-15, 1919: Cases, 32. In ad-
Prussia	Oct. 20-Nov. 29	1,100	323	dition to previously reported
				dition to previously reported cases; Sept. 28-Dec. 6, 1919: Cases, 175 (exclusive of Prussia). Dec. 7, 1919-Jan. 17, 1920: Cases, 217.
Freat Britain:	The 00 15 - 6	_		
Glasgow	Feb. 29-Mar. 6 Feb. 22-28	3 4		
ircece: Saloniki	Nov. 10-Dec. 28	26	26	
Do	Dec. 9-Feb. 21	47	39	In vicinity: Drama, 1 case; Zagoritzani, 9 cases, 1 death; Serres, 1 case.

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued,

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India				Oct. 19-Dec. 27, 1919: Deaths, 3,421; Jan. 4-31, 1920: Deaths, 4,146.
Bombay	Oct. 12-Dec. 20	46		3,421; Jan. 4-31, 1920: Deaths.
Do	Dec. 28-Feb. 14 Oct. 26-Dec. 27	96		4,146.
Calcutta	Oct. 26-Dec. 27	186	260	1
Do	Dec 28-Feb 14 Dec. 21-27	1,064	919	į
Karachi Do	Ian 18 Fah 21	6 27	17	
Madras	Jan. 18-Feb. 21 Nov. 2-Dec. 27	31	13	1
Do	Dec. 28-Feb. 21	40	10	
Rangoon	Oct. 19-Dec. 27	51	18	1
Ďo	Dec. 28-Feb. 14	71	25	į
Indo-China:			1	· ·
Saigon	Oct. 27-Nov. 23	2]	
Do Italy:	Jan. 19–25	2]	4.
Genoa	Jan. 5-Feb. 22	16	1	Province: Nov 17-Dec 28 1010.
Leghorn	Jan. 4-Mar. 14	6		Province: Nov. 17-Dec. 28, 1919: Cases, 15: deaths, 3. Jan. 12-
		1	1	18, 1920; Cases, 13.
Messina	Nov. 10-Dec. 28	55	8	18, 1920: Cases, 13. Province of Messina: Dec. 14- 28, 1919: Cases, 68. Jan. 5-
Do	Dec. 29-Mar. 7	37	6	28, 1919: Cases, 68. Jan. 5-
	•	ł	1	Mar. 1, 1920: Cases, 144; 2
3.511	0-1-1-27		1 _	deaths.
Milan Naples	Oct. 1-Nov. 30	12 13	2	• •
Palermo	Dec. 28-Feb. 15 Dec. 27-Mar. 8	14	17	,
San Fratello	Dec. 1-28	49	5	
Do	Dec. 29-Mar. 7	29	ĭ	
Triestc	Jan. 3-10	2	l	
_ Turin	Dec. 28-Feb. 15	5		•
Japan:]	
Kobe	Dec. 15-21 Feb. 23-29	1		
Do	Feb. 2-8	1		
Nagasaki	Nov. 1-31	36	1 7	Entire island.
Do	Jan. 1-Feb. 29	364	116	Do.
Yokohama	Jan. 1–Feb. 29 Feb. 1–29	19		20.
Java:		1		
East Java		• • • • • • • •		Sept. 28-Dec. 18, 1919: Cascs, 34.
Residency—	0-4 Of Dec 10			Jan. 1-7, 1920: Cases, 1.
Surabaya Do	Oct. 25-Dec. 18 Jan. 1-7	26 1	•••••	
West Java	Jan. 1-7	1		Oct 17-Then 25 1010: Cares 650:
Batavia	Oct. 17-Dec. 12	49	22	deaths.151. Jan. 2-Feb. 5.1920:
Do	Jan. 2-22	5	4	Oct. 17-Dec. 25, 1919: Cases, 659; deaths,151. Jan. 2-Feb. 5,1920; Cases, 231; deaths, 31.
Luxemburg	Feb. 15-29	3		
Manchuria:	W 0.0		- 1	
Dairen	Mar. 2-8	1		•
Bagdad	Jan. 10-30	5	1	
Mexico:	Juli. 10 00	١		
Acapulco	Nov. 9-15	2		
Chihuahua	Dec. 21-27	3	3	
Do	Jan. 11-Mar. 20	•••••	3	
Ciudad Juarez	Jan. 11-Feb. 7	••••••	2	•
Do.	Dec. 1-31	1		The second secon
Mexico City	Nov. 16-Dec. 20	11		•
Do	Feb. 15-28	2		
Salina Cruz	Feb. 1-29	18		
San Luis Potosi	Dec. 14-20		1	
Do	Jan. 18-Mar. 14	4	6	
Tehuantepec	Dec. 25-31	6 73		
Newfoundland:	Jan. 1-Feb. 27	13		•
St. Johns	Dec. 20-26	3	1	Dec. 13-26, at outports, 6 cases.
	200.20			Present at 8 other localities
Do	Dec. 27-Mar. 5	13	•••••	Outports, Dec. 27, 1919-Mar. 12, 1920: Cases, 25. Present at other localities. Mar. 25: Pres-
l	i			other localities. Mar. 25: Pres-
Panama:	1			ent at outports.
Colon	Dec. 15-21	. 1		•
Philippine Islands: Manilla		Í		1
	MAR IE OI		1	
	Feb. 15-21			
Portugal:		. I		
	Nov. 30-Dec. 27		55 101	
Portugal: Lisbon		<u>.</u>	55 101 5	

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portuguese East Africa				Present in interior in 5 die
Towns—	1	1		Present in interior, in 5 districts, Nov. 9-Dec. 20, 1919 with 56 reported cases. In in
Chai-Chai	Feb. 1-7	1	1	with 56 reported cases. In in-
Chinde	Dec. 28-Jan. 25	21		terior, Dec. 28, 1919-Feb. 21, 1920: Present.
Inhambane	Dec. 7-27	7		1920: Present.
Do	Jan. 4–Feb. 14 Nov. 23–Dec. 20 Feb. 15–21	8		
Lourenco Marques	Nov. 23-Dec. 20	9		.]
Do	Feb. 15-21	1		•}
Mozambique	Dec. 7-27	2		•
Quelimanë Do	Jan. 4–Feb. 21 Dec. 7–27	9		1
Tete	Dog 7-97	i		
liberia:	Dec. 1-21		ļ	1
Vladivostok	Dec. 19-31	17	3	
pain:		· ••		!
Barcelona	Nov. 6-Dec. 27	l	26	
Do	Dec. 28-Mar. 4		1 55	
Bilbao	Nov. 6-Dec. 27 Dec. 28-Mar. 4 Nov. 1-Dec. 20		4	į
Do	l Feb. 10-20	1	1	•
Cadiz	Oct. 1-Nov. 30		6	ł
Madrid.e	Feb. 1-29		. 9	
Valencia Do	Nov. 10-Dec. 27	39	9	
Do	Nov. 10-Dec. 27 Dec. 28-Mar. 26	109	16	ŀ
Vigo	Nov. 18-Dec. 27	14		
Do	Dec. 28-Jan. 31	2	3	Jan. 11-17, 1920: Present in
		1	1	vicinity.
umatra:	0.4 1 0.4	١.		• •
Medan	Oct. 1-31	8		
unis:	Dec 92 99	1	l	;
Tunis	Dec. 23–29 Jan. 19-Mar. 14	6	5	
Do urkey:	Jan. 19-mar. 14		9	
Constantinople	Nov. 9-Dec. 14	27	ŧ	•
Do	Feb. 18-24	5	3	
nion of South Africa:	FCD. 10-21	•	1	
Johannesburg	Oct. 1-Dec. 31	21	.	
n vessel:	Out. I Dec. Di		1	
8. S. Roggeveen		1	1	Vessel from Java: at Normea.
		_	1	New Caledonia. Case left at
			Į.	Noumea. Vessel arrived at
			l	Sydney, Jan. 2, 1920.
S. S. Sarcoxie	Dec. 23	1		At Ponta Delgada, Azores, from
		-		Rotterdam for New York.
S. S. Vestnorge	Jan. 15	1		Mild. At Kingston, Jamaica,
•		į	1	Vessel from Java; at Noumea, New Caledonia. Case left at Noumea. Vessel arrived at Sydney, Jan. 2, 1920. At Ponta Delgada, Azores, from Rotterdam for New York. Mild. At Kingston, Jamaica, from Philadelphia, via Nor- folk
				folk.
	TYPHUS	FEVE	' R.	
Immin			1	
lgeria: Departments—				
Departments				
	Dec 11-31	2		Algiers (city) Jon 1_31 1920:
Algiers	Dec. 11-31	2	•••••	Algiers (city), Jan. 1-31, 1920: Cases 1: deaths 1
Algiers Do	Jan. 11-Feb. 29	3		Algiers (city), Jan. 1-31, 1920: Cases, 1; deaths, 1.
Algiers Do Constantine	Jan. 11-Feb. 29 Nov. 11-Dec. 31	3 2		Algiers (city), Jan. 1-31, 1920: Cases, 1; deaths, 1.
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20	3 2 22		Algiers (city), Jan. 1-31, 1920: Cases, 1; deaths, 1.
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11	3 2 22 5		Algiers (city), Jan. 1-31, 1920; Cases, I; deaths, 1.
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20	3 2 22		
Algiers Do Constantine Do Oran Do Vienna	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11	3 2 22 5		Algiers (city), Jan. 1-31, 1920: Cases, 1; deaths, 1. Sept. 7, 1919-Jan. 3, 1920: Cases, 59.
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3	3 2 22 5 88		Sept. 7, 1919–Jan. 3, 1920: Cases,
Algiers Do Constantine Do Oran Do ustria Vienna elgium: Ghent	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29	3 2 22 5 88	2	Sept. 7, 1919–Jan. 3, 1920: Cases,
Algiers Do Do Constantine Do Oran Do Vienna elgium: Ghent Olivia:	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31	3 2 22 5 88 38		Sept. 7, 1919–Jan. 3, 1920: Cases, 59.
Algiers Do. Do. Constantine Do. Do. Do. Vienna Signim: Ghent Dolars La Par. La Par.	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20	3 2 22 5 88 38	31	Sept. 7, 1919-Jan. 3, 1920: Cases, 59. Dec. 29, 1918-June 28, 1919:
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31	3 2 22 5 88 38		Sept. 7, 1919-Jan. 3, 1920: Cases, 59.
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21	3 2 22 5 88 38 38	31	Sept. 7, 1919-Jan. 3, 1920: Cases, 59. Dec. 29, 1918-June 28, 1919:
Algiers Do Constantine Do Oran Vienna Vienna elgium: Ghent Olivia: La Paz Do La Paz Ceara	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10	3 2 22 5 88 38 30 10	31 6	Sept. 7, 1919-Jan. 3, 1920: Cases, 59. Dec. 29, 1918-June 28, 1919:
Algiers. Do. Constantine. Do. Oran. Do. vienna. elgium: Ghent Olivia: La Paz. Do. Poc. Poc. Porto Alegre.	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21	3 2 22 5 88 38 38	31	Sept. 7, 1919-Jan. 3, 1920: Cases, 59.Dec. 29, 1918-June 28, 1919:
Algiers. Do. Constantine. Do. Oran. Do. Vienna. elgium: Ghent. Olivia: La Paz. Do. rarii: Ceara. Porto Alegre.	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10 Feb. 1-7	3 2 222 5 88 38 30 10	31 6	Sept. 7, 1919-Jan. 3, 1920: Cases, 59.Dec. 29, 1918-June 28, 1919:
Algiers	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10 Feb. 1-7 Dec. 21-31	3 2 22 25 88 38 30 10	31 6	Sept. 7, 1919-Jan. 3, 1920: Cases, 59. Dec. 29, 1918-June 28, 1919:
Algiers Do Do Constantine Do Oran Do Ustria Vienna elgium: Ghent olivia: La Paz Do Fazil: Ceara Porto Alegre Usaria: Solia Do Do Do Do Do Do Do Do Do Do Do Do Do	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10 Feb. 1-7 Dec. 21-31 Jan. 1-Feb. 21	3 2 22 25 88 38 30 10 1	31 6	Sept. 7, 1919–Jan. 3, 1920: Cases, 59. Dec. 29, 1918–June 28, 1919: Deaths, 52.
Algiers Do Constantine Do Oran Do ustria Vienna elgium: Ghent olivia: La Paz Do ranii: Ceara Porto Alegre usgaria Sodia Do Varna	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10 Feb. 1-7 Dec. 21-31 Jan. 1-Feb. 21	3 2 22 25 88 38 30 10	31 6	 Sept. 7, 1919-Jan. 3, 1920: Cases, 59. Dec. 29, 1918-June 28, 1919: Deaths, 52. To Feb. 21: Present.
Algiers Do Do Constantine Do Oran Do Ustria Vienna elgium: Ghent olivia: La Paz Do razil: Ceara Porto Alegre usaria: Sofia Do Do Do Do Do Do Do Do Do Do Do Do Do	Jan. 11-Feb. 29 Nov. 11-Dec. 31 Jan. 1-Feb. 20 Nov. 21-Dec. 11 Jan. 21-Feb. 29 Sept. 7-Jan. 3 Jan. 25-31 June 29-Dec. 20 Jan. 4-Feb. 21 Jan. 4-10 Feb. 1-7 Dec. 21-31	3 2 22 25 88 38 30 10 1	31 6	Sept. 7, 1919–Jan. 3, 1920: Cases, 59. Dec. 29, 1918–June 28, 1919: Deaths, 52.

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile:	Nov. 17-Dec. 14	14		
Santiago				Jan. 12-Sept. 30, 1919: Cases, 5,153; deaths, 1,023. Outbreak in October, 1918.
Valparaiso Do	Nov. 9-Dec. 27 Dec. 28-Mar. 6	955 235		Dec. 1-13, 1919; Cases, 700;
China: Antung Tientsin	Nov. 3-Dec. 14 Feb. 1-7	2		
PragueDo	Dec. 21-27	1 2		
Egypt: Alexandria Do	Nov. 12-Dec. 16 Jan. 1-Mar. 4	6 66		
Cairo	. Oct. 1-Dec. 23 Jan. 1-Feb. 4	113 34	46 16	
Port Said	Oct. 1-Dec. 16 Jan. 15-28	3 1		Feb. 16, 1920; Cases, 7.500 to
Narva	Feb. 16do	2, 500 2, 500		Feb. 16, 1920: Cases, 7,500 to 8,000. Estimated mortality, 40 per cent.
Province— Viborg Germany	. July 16–31	2		Dat 5 Dec 6 1010: G 10
		•••••		Oct. 5-Dec. 6, 1919: Cases, 10—civil population, 3; military, 4; repatriated soldiers, 3. Dec. 7, 1919-Jan. 17, 1920: Cases, 73, of which 28 in civil population, including 10 Polish workmen; 45 among German troops.
Great Britain: Belfast	Dec. 28-Jan. 3 Nov. 30-Dec. 6	1 2	1	
Greece:	Nov. 17-Dec. 28	4		
DramaSaloniki Do	Nov.24-Dec. 28 Oct. 6-Dec. 21 Dec. 28-Feb. 21	6 81	43	In vicinity of Cavalla 1 caca-
Thassos Island	Dec. 22-28do.	1		In vicinity, at Cavalla, 1 case; Prani, 1; Vertekep, 6 cases; Zagoritzani, 3.
HungaryBudapestItaly:	Nov. 3-Dec. 7	18		Aug. 25-Dec. 7, 1919: Cases, 36.
Brindisi	Dec. 22-28 Jan. 19-25	. 2	1	
Trieste	Dec. 14-27 Dec. 28-Feb. 3 Nov. 17-Dec. 21	3 5 6	2 1	
Japan: Nagasaki Do	Dec. 1-28	4	2 1	•
Mexico: Chihuahua	Dec. 21-27	2	-	
Mexico City	Jan. 11-17	129 188	1	
Saltillo San Luis Potosi	Dec. 28-Feb. 28 Nov. 1-30 Dec. 14-27	2	1	Present.
Do Paraguay: Asuncion	Dec. 28-Mar. 28 Nov. 30-Dec. 6	1		Do.
Peru: Callao	Nov. 1-30 Dec. 7-13	_i .	1	,
PolandGalicia (Province)	Nov. 1-30	5,716	616	Nov. 1-30, 1919: Cases, 11,264; deaths, 942. Including Prov- ince of Posen.
WarsawPortugal:	do	107	19	Oct. 1-31, 1919: Cases, 129; deaths, 12.
LisbonOportoRussia	Dec. 6-12 Dec. 21-27	···i	2	Mar. 4, 1920: Reported present
				in nearly all Black Sea ports.

Reports Received from Dec. 27, 1919, to Apr. 16, 1920—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Siberia:	D	~		
Vladivostok	Dec. 25-31	23	13	
Spain: Barcelona	Nov. 20-26	7		
Bilbao	Dec. 22-31	•	·····i	
Corunna	Nov. 24-Dec. 7	2		
Madrid	Jan. 1-31		1	
Funis:			l i	
Tunis	Dec. 14-20	1		
Do	Dec. 29-Mar. 7	4	$ $ $ $	
Furkey: Constantinople	Nov. 14-Dec. 27	49		
Do	Feb. 8-28	54	3	
	YELLOW	PEVE	<u> </u>	

Brazil: Bahia	One To-
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