PUBLIC HEALTH REPORTS

VOL. 33

MARCH 15, 1918

No. 11

METHODS FOR FIELD STUDY OF INDUSTRIAL FATIGUE.¹

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Field investigation into industrial fatigue means investigation carried out in the factory itself, where fatigue is produced by ordinary work, as contrasted with experiments carried on in the laboratory, where fatigue is produced artificially and "ad hoc." These field investigations fall into two classes, investigations which measure ordinary natural fatigue by means of artificial "tests," such as the tests of reaction time or tests of sense acuity, carried out notably by Prof. Stanley Kent under the British Home Office and described in his two interim reports of 1915 and 1916, and investigations which measure fatigue by the ordinary events of industrial life, such as output (quantity and quality), accidents, power consumption, sickness, labor turnover. The most usual measure to take is that of quantity of output, wherever this does not depend exclusively on the speed of the machine. The data of the investigator are here either found ready for him in factory records kept for purposes of checking wages or measuring efficiency, or the investigator may observe and record the industrial processes himself. The output measure has been used recently by the British Health of Munition Workers Committee. Dr. Vernon, in Memoranda 12 and 18, has compared the output of the same individual workers in the same factory under different hourly schedules, i. e., he has compared the output per hour in a 70-hour working week against the output per hour in a 60-hour week. This was also the method pursued by Dr. Abbé in his famous experiment at the Zeiss Optical Works in reducing hours from 9 to 8 per day. Again in their interim report the British Health of Munition Workers Committee compared the output per hour on night work against the output per hour of the same workers when on the day shift, and they also compared the output per hour under different incentives.

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¹ Read before the Section on Industrial Hygiene of the American Public Health Association, Washington, D. C., Oct. 19, 1917.

Now, all these investigations have compared the output of a given number of individuals before with the output after a change. Yet changes in hours are very distasteful to most factory owners. They require thought and involve many incidental rearrangements. The field for the "before and after" comparison is therefore strictly limited, and what I wish to put before you to-day is a method of testing fatigue which shall not depend immediately on any change in factory schedules.

This test may be called that of the "hourly output curve." Curiously enough, it was first used on a large scale by the United States Government in the report on Women and Child Wage Earners' (1910–1912). In volume 11 a table is given stating the output from stamping presses for every hour of the day. Twenty-three machines were observed from 1 to 7 days each and the output for each hour, (8 to 9, 9 to 10, etc.) added up in a total, 10 working hours being compared. Similarly in the Federal report on the Conditions of Employment in the Iron and Steel Industry² (1911) the number of blows from two Bessemer converters is given for 8 months for every hour of two 12-hour shifts.

Fatigue consists in a diminution of activity that is itself caused by activity. As activity proceeds activity falls, and the theory is that a comparison of the output of consecutive hours will show exactly to what extent the unrelaxed tension of activity will result in fatigue toward the end of a spell and toward the end of the working day, and exactly how far rest pauses, meal intervals, and a night's sleep will allow human capacity to gain recovery.

But it was peculiarly unfortunate that the two operations chosen by the Federal Government were of a nature not yielding definite evidence of fatigue. Work on a stamping press is extremely monotonous, and only subjectively, not objectively, tiring, while in the operation of the Bessemer converter, numerous pauses allowing for recuperation occur in the work. Between every blow the men have to wait for the completion of the material process. The result in both cases was a straight line of output throughout the day instead of a falling curve

In collecting material for the British Association Committee on Fatigue from the Economic Standpoint (1915) I obtained several output curves which differed radically from those collected by the Federal Government. The operations I chose consisted mainly in soldering by hand or in labeling biscuit tins, work requiring a certain degree of attentiveness and coordination and capable of being carried on without any pauses whatever. Comparing the different hours of the spell, a curve was obtained not very unlike the fatigue curve yielded by the contractions of a continuously stimulated muscle.

The Federal Government was discouraged by the lack of any signs of fatigue in the curves they collected, and this discouragement seems

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to have spread to investigations elsewhere. Nevertheless, there seem to me to be some very good reasons why the hourly output tests should be developed and extended.

First of all, the record of output is usually easy to secure every hour. Foremen often keep it for their own benefit in estimating at any given time how the day's work is progressing. Often also there are automatic registers attached to machines to record each unit of output as on a cyclometer, and the total attained each hour may be read off at a glance.

Secondly, the output curve can be accompanied by curves in other very significant events of factory life. I refer to accidents and to the consumption of power. Just as output can be plotted from hour to hour, so can the number of accidents occuring in any factory and the amount of electrical power consumed. And with these latter tests the evidence of fatigue can not be isolated except by hourly curves. It gives no indication of fatigue to compare the rate of accidents for the whole factory during long periods under different schedules, since the rate of accidents depends so largely on the type of machine used and the experience of the workers, and these factors vary enormously at different periods. Further, in the investigations into output made hitherto, the same workers were selected for comparison before and after the change in hours, but it is impossible to do this in the case of accidents, since such selected workers may never have any accidents at all. Accidents must always be studied over the factory as a whole. Similarly with power consumption, it is very seldom that a factory keeps any records of the power consumed on certain machines or by certain special workers. The record has to be made for the factory as a whole. and with power records as with accidents it is always hard to keep all the disturbing factors constant where different and often fardistant periods are compared.

The accident curve for different hours of the working day, it is true, has often been rejected as an index of fatigue, owing to the curve showing a peak one hour from the end, rather than at the end of the spell. Why there should be a drop in the last hour it is difficult to explain. My own theory is that the anticipation of a break in his work and of food and rest makes the worker more alert and he becomes more alive to the dangers in his surroundings. But whatever the theory, an analysis of the circumstances of accidents will show a surprisingly high percentage of occurrences which the injured man could have avoided either by a quick reaction to danger or by more attention or better coordination. Accidents due purely to mechanical causes are usually not more than 5 or 10 per cent of the whole number. In my opinion, therefore, a rise in accidents must form an admirable

measure of fatigue, particularly of a psychological fatigue affecting attention and alertness rather than rapidity of motion.

There is, however, one element in the accident curve that leads to confusion. It is obvious that the more frequently a man's hands pass certain danger points in a given period of time, the more liable are accidents to occur; thus the accident curve depends partly on the worker's speed of production and will tend to rise as output is increased. To this extent, a rise in accidents will measure a rise in working capacity and not a fall. It is necessary, therefore, to eliminate this factor in the accident curve and to correct the figures to some standard output. But accidents, as we have said before, can be measured only over the whole factory and to obtain a measure of output for the whole factory also with all its varying operations and productive and nonproductive duties, is practically impossible. In this dilemma the curve of power consumption comes to our aid. Wherever, as is usually the case, the machinery and the workman jointly combine in setting the pace, it is a curve corresponding roughly to the output and yet it is obtained for the whole factory. If therefore the number of accidents per hour be divided by the amount of power consumed each hour, we shall get the curvo representing the worker's loss of capacity in attention and alertness quite irrespective of the amount of work he is doing. It is this composite curve together with the curve of output described above that may yield one of the most nearly perfect measures of fatigue in the factory.

A third advantage of the hourly curve is the subtle distinction it brings out between the fatiguing effect of different types of work and possibly of different types of conditions also. Dr. Lee was able to demonstrate that monotonous work, work requiring attention, and work involving muscular strain, might yield several different shapes of curves. Unless the change of hours in a factory is very frequent the "before-and-after" comparison does not yield more than one or two combinations. It is the great number of readings composing the curve, usually 10 a day, that renders possible a more subtle analysis.

I can not close honestly without admitting one disadvantage to the hourly curve method. In their practical application the results of the curve do not point so directly to any one policy as the "before-and-after" type of investigation. The curve is obtained under one factory schedule. It is not in itself a comparison of two different schedules one of which can be declared superior to the other. If an output or power consumption curve should fall or an accident curve rise steeply, conditions are obviously wrong, but what conditions may lead to better results is not directly indicated by the figures.

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However, if a sufficient number of observations is made, the curves obtained permit comparisons between different factories and different conditions in the same factory that would be impossible to secure by the direct before-and-after method. In using the curves, no comparison of absolute figures is contemplated. Absolute figures of output are determined not merely by human capacity but by the efficiency of machines, the quality of material, the discipline exercised by the foreman and the general coordination of the factory staff. If compared directly, the hourly output of one factory against the hourly output of another factory, even on exactly the same process, might demonstrate nothing more than superior machines and superior foremen and superior materials in the one, as against the other. It would not show necessarily any superior schedule of hours. The curve method involves only a comparison of figures determined under the same conditions. The figures are yielded hour to hour in the same factory or section of the factory. Between the hours there can be no changes in factory organization or equipment. If the output curve in one factory drops heavily as work increases in length, while in another factory on the same operation the output curve continues steadily, then we may conclude that the latter factory has so arranged its hours and conditions of work that the workers do not suffer from undue fatigue at the end of their day.

I include a consideration of factory conditions advisedly, because the occurrence of fatigue, though running parallel with the length and intensity of activity, may yet be retarded or expedited in its course by different degrees of heat, damp, noise, dust, smell, comfort of posture, and so on, and as soon as accurate instruments are devised for grading each condition, its peculiar effect on the curves may be investigated just as scientifically as the effect of long hours, and the investigation will be just as important.

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.

EXTRA-CANTONMENT ZONES—CASES REPORTED WEEK ENDED MARCH 12.

CAMP BEAUREGARD ZONE, LA.		CAMP DODGE ZONE, IOWA—continued.	
Alexandria:		Smallpox:	
Smallpox	2	Des Moines	31
Tuberculosis	ī	Syphilis:	91
Tuber curesis	-	Des Moines	
CAMP BOWIE ZONE, TEX.		Des Moines	7
		CAMP FUNSTON ZONE, KANS.	
Fort Worth:	_	Chicken pox:	
Cerebrospinal meningitis	2	Manhattan	1
Diphtheria	1		1
Génorrhea	5	Diphtheria:	_
Malaria	2	Manhattan	1
Measles	4	Measles:	
Pneumonia, lobar	4	Junction City	5
Smallpox	11	Ogden	1
Syphilis	2	Cleburne	3
Tuberculosis, pulmonary	1	Army City	1
Luberomons, pulmonary	-	Riley	3
CAMP DEVENS ZONE, MASS.		Manhattan	6
Q		Mumps:	•
German measles:	_	Junction City	4
Ayer	1		
Lancaster	5	Ogden	1
Lunenburg	2	Cleburne	1
Westford	1	Manhattan	9
Measles:		Pneumonia:	
Westford	4	Junction City	1
Mumps:		Scarlet fever:	
Lancaster	7	Junction City	2
P'neumonia, lobar:		Manhattan	5
Westford	1	Smallpox:	
11 054,014	•	Manhattan	1
CAMP DODGE ZONE, IOWA.		Riley	1
Pt. M. mt.		Whooping cough:	
Diphtheria:	_	Junction City.	1
Des Moines	9	CAMP GORDON ZONE, GA.	
German measles:		Atlanta:	
Des Moines	2	Cerebrospinal meningitis	
Grimes	1	Chicken pox.	4 2
Gonorrhea:		Diphtheria	2
Des Moines	3	Dysentery, amebic.	2
Measles:		German measles	2
Des Moines	6	Gonorrhea	26
Grimes	5	Hookworm infection	
Pneumonia:	į	Malaria	4
Grimes	2		1
Scarlet fever:	~	Measles	16
Des Moines.	13	Mumps	38
	13	Preumonia	4
Grimes		Scarlet fever	8
Bloomfield Township	1	Septie sore throat	1
	792	:45	

CAMP GORDON ZONE, GA continued.		FORT LEAVENWORTH ZONE, KANS.—continue	d.
Atlanta-Continued.		Scarlet fever:	
Smallpox	7	Leavenworth	2
Syphilis	10	Smallpox:	
Typhoid fever	1	Leavenworth	
Tuberculosis	4	Leavenworth County	3
Whooping cough	2	Tuberculosis:	1
Typhoid fever	1	Leavenworth	1
Smallpox	î	CAMP LEE ZONE, VA.	
Kirkwood:	_	Cerebrospinal meningitis:	
Smallpox	1	Prince George County	1
-		Chicken pox:	
CAMP GREENE ZONE, N. C.		Prince George County	7
Charlotte Township:		Chancroid:	_
Chancroid	1	Petersburg.	1
Chicken pox	2	German measles:	4
German measles	6	Prince George County Dinwiddie County	1
Gonorrhea	10	Ettricks.	2
Malaria	4	Gonorrhea:	-
Measles	7	Petersburg	1
Mumps	5 9	Malaria:	-
Syphilis	S	Dinwiddie County	1
Typhoid fever	1	Measles:	
Whooping cough	7	Petersburg	2
	•	Hopewell	31
CAMP JACKSON ZONE, S. C.		Ettricks.	1
Columbia:		Mumps:	
Cerebrospinal meningitis	1	Hopewell	15
Mumps	6	Ettricks.	1
Pneumonia	1	City Point	1
Scarlet fever.	1	Pellagra:	•
Tuberculosis	2	Petersburg	1
Typhoid fever	1	Pneumonia:	
Whooping cough	5	Petersburg	3
CAMP JOSEPH E. JOHNSTON ZONE, FLA.		Scarlet fever:	
, , , , , , , , , , , , , , , , , , ,	1	Prince George County	1
Jacksonville:		Septic sore throat:	
Chicken pox Erysipelas	3 2	Petersburg	2
Measles.	4	Dinwiddie County	1
Mumps	6	Ettricks	i
Scarlet fever	1	Tuberculosis:	_
Trachoma	3	Petersburg	2
Tuberculosis	4	CAMP LOGAN ZONE, TEX.	
Typhoid fever	3	Houston:	
Whooping cough	1	Chicken pox	9
Fast Port:	,	Measles	45
Mumps	1	Mumps	6
FORT LEAVENWORTH ZONE, KANS.	- 1	Pneumonia	3
Chicken pox:	1	Scarlet fever	2
Leavenworth	4	Smallpox	3
German measles:		Syphilis	1
Leavenworth	7	Trachoma Typhoid fever	1 2
Leavenworth County	3	Magnolia Park:	-
Measles:	İ	Smallpox	1
Leavenworth	7	•	-
Leavenworth County	1	CAMP LEWIS ZONE, WASH.	
Mumps:	,	Chicken pox:	
Leavenworth County	1	Lakeview	1
Leavenworth	1	German measles: Steilacoom Lake	3
Leavenworth County	2	American Lake	2
•	•		

CAMP LEWIS ZONE, WASH.—continued.		NORFOLE COUNTY NAVAL DISTRICT, VA.—continu	1e d
German measles—Continued.		Measles:	
Gravelly Lake	1	Portsmouth	12
Spanaway	6	Mumps:	
Lake City	- 3	South Norfolk	. 3
Steilacoom	4	Pellagra:	
Custer	1	South Norfolk	1
Roy	7	Pneumonia:	
Measles:		South Norfolk	1
American Lake	1	Rabies:	
Pneumonia, lobar:	-	Portsmouth	1
Murray	1	Scarlet fever:	•
	•	Portsmouth	6
Whooping cough:			·
Steilacoom Lake	3	Smallpox:	
Lakeview	1	Port Norfolk	2
CAMP MACARTHUR ZONE, TEX		Pinners Point	4
Waco:		Tuberculosis:	~
German measles	5	South Norfolk	1
Gonorrhea	3	St. Brides	1
Measles	22	FORT OGLETHORPE ZONE, GA.	
Mumps	26	4	
Pneumonia, lobar	6	Cerebrospinal meningitis:	
Smallpox	3	Chattanooga	4
		St. Elmo	1
Tuberculosis	2	Chicken pox:	
Whooping cough	1	Chattanooga	2
Precinct One:		Gonorrhea:	
Cerebrospinal meningitis	1	Chattanooga	4
Precinct Four:		Measles:	-
Mumps	1	Chattanooga	4
CAMP M'CLELLAN ZONE, ALA.		East Lake	2
		Rossville	8
Cerebrospinal meningitis:	_		3
Precinct Thirteen	1	Mumps:	
Chicken pox:		Chattanooga	
Anniston	14	North Chattanooga	1
Diphtheria:		East Lake	3
Anniston	1	Rossville	2
German measles:		Pneumonia:	
Anniston	3	Chattanooga	2
Measles:		Rossville	2
Anniston	5	Scarlet fever:	
Precinct Two		East Lake.	1
	1,	Smallpox:	•
Mumps: Anniston	0	Chattanooga	4
	2		3
Pneumonia:		Syphilis:	
Anniston	1	Chattanooga	3
Smallpox:		Lakeview	1
Anniston	26	Tuberculosis:	
Precinct Nine	1	St. Elmo	3
Precinct Fifteen	1	Alton Park	1
Precinct Twenty-three	1	Typhoid fever:	
Tuberculosis:		Chattanooga	1
Anniston	1	Whooping cough:	
Whooping cough:	_	Chattanooga	8
Amiston	1	Rossville	1
	٠ ا		•
NORFOLK COUNTY NAVAL DISTRICT, VA.		CAMP PIKE ZONE, ARK.	
Ccrebrospinal meningitis:	- 1	Cerebrospinal meningitis:	
South Norfolk	1	Little Rock	1
. Norfolk County	1	North Little Rock	2
Chicken pox:	-	Chancroid:	
Portsmouth	2	Little Rock	1
	-	Scotts	î
Diphtheria:	٠,١	Chicken pox:	•
Portsmouth	1	Little Rock	
Port Norfolk	1		4
Dysentery:		Diphtheria:	_
Portsmouth	1	Little Rock	1
South Norfolk	1	North Little Rock	1

CAMP PIKE ZONE, ARK.—Continued.		CAMP SHERIDAN ZONE, ALA.—continued.	
German measles:		Smallpox:	
Little Book	1	Montgomery	(
Gonorrhea:		Rural district	- 1
Little Rock	10 2	CAMP SHERMAN ZONE, OHIO.	
Hookworm:		Cerebrospinal meningitis:	
Marche	1	Chillicothe	1
Malaria:		Chicken pox:	
Little Rock	8	Chillicothe	1
North Little Rock	1	Measles:	
Measles:	••	Chillicothe	,
Little Rock	10	Liberty Township	,
North Little Rock	1	Mumps:	•
Mumps: Little Rock	23	Liberty Township	•
North Little Rock	4	Pneumonia, lobar:	
Scotts	i	Chillicothe	1
Pollogra:	-	Syphilis:	
Scotts	2	Chillicothe	1
Pneumonia:		Scarlet fever:	
Little Rock	16	Chillicothe	ŧ
North Little Rock	5	Liberty Township	1
Scarlet fever:		Trachoma:	
North Little Rock	1	Union Township	5
Smallpox:		CAMP ZACHARY TAYLOR ZONE, KY.	
Little Rock	32	Jefferson County:	
Camp Pike	1	Measles	2
Browns Camp	1	Trachoma	5
Syphilis:	6	Louisville:	
Little Rock North Little Rock	1	Cerebrospinal meningitis.	2
Scotts	6	Chicken pox	3
Trachoma:	•	Diphtheria	4
North Little Rock	1	Measles	15
Tuberculosis:	_	Mumps	1
Little Rock	8	Pneumonia, lobar	1
North Little Rock	1	Scarlet fever.	1
Scotts	1	Smallpox	3
Sweet Home	1	Trachoma Tuberculosis, pulmonary	6
Typhoid fever:		Typhoid fever	1
Little Rock	1		•
Tuckerman	1	TIDEWATER HEALTH DISTRICT, VA.	-
Whooping cough:		Chicken pox:	
Little Rock	6	Newport News.	2
		Cerebrospinal meningitis: Newport News	4
CAMP SEVIER ZONE, S. C.		German measles:	•
Greenville Township:	_	Newport News	2
Cerebrospinal meningitis	2	Hampton	
Measles	1	Phoebus.	6
Typhoid fever	1	Measles:	
Chick Springs Township:	•	Newport News	4
Measics	1	Hampton	8
CAMP SHERIDAN ZONE, ALA.	-	Phoebus	6
•		Mumps:	
Chicken pox:		Newport News	3
Montgomery	8	CAMP TRAVIS ZONE, TEX.	
Capitol Heights	1	San Antonio:	
Montgomery	2	Gonorrhea	1
Measles:	-	Measles.	ī
Montgomery	13	Mumps	2
Rural district	2	Roseola	2
Scarlet fever:		Syphilis	1
Montgomery	1	Trachoma	2

DISEASE CONDITIONS AMONG TROOPS IN THE UNITED STATES.

The following data are taken from telegraphic reports received in the office of the Surgeon General, United States Army, for the week ended March 1, 1918:

Annual admission rate per 1,000 (disease	Noneffective rate per 1,000 on day of report-Con.
only):	National Army camps 54.5
All troops	Regular Army 42.9
National Guard camps	Annual death rate per 1,000:
National Army camps 1,557.1	All troops
Regular Army 1,334.6	National Guard camps 6.4
Noneffective rate per 1,000 on day of report:	National Army camps. 5.9
All troops 47. 8	Regular Army 7.9
National Guard camps 42.2	

New cases of special disease reported during the week ended Mar. 1, 1918.

Camps.	Pneu- mo- nia.	Dys- en- tery.	Ma- laria.	Ve- ne- real.	Mea- sles.	Men- ingi- tis.	Scar- let fever.	Deaths.	Annual admis- sion rate per 1,000 (disease only).	Nonef- fective per 1,000 on day of report.
Wadsworth Hancock McClellan Sevier. Wheeler Logan Cody. Doniphan Bowie Sheridan Shelby. Beauregard Kearney Devens Upton Dix Meade Lee Jackson Gordon Sherman	9 8 30 14 27 2 2 26 9 7 1 1 9 14 5 1	1	2 3	15 23 18 22 45 70 7 8 74 19 29 16 6 68 21 49 29 118 31	1 1 15 10 7 7 1 1 35	1 2 1 2 2 2 2 2	3 2 1 2 3 1 3 1 3 9 6	2 2 1 3 6 2 2 8 3 7 4 1 1 4 4 3 3 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	591.6 432.2 743.8 1,670.1 1,360.6 634.8 1,772.2 2,058.2 443.1 1,252.0 1,318.1 1,181.3 1,077.5 508.6 1,474.3 1,794.0 1,333.7 1,333.7	23, 6 26, 9 28, 7 70, 0 46, 6 34, 6 34, 6 61, 0 21, 8 54, 2 55, 4 47, 1 36, 4 23, 4 44, 7 30, 9 58, 0 71, 4 34, 9 61, 8
Taylor	11			48 6	13	1	6	5 2	1,612.0 1,171.4	60. 6 46. 0

New cases of special disease reported during the week ended Mar. 1, 1918-Continued.

			-,						,	
Camps.	Pneu- mo- nia.	Dys- en- tery.	Ma- laria.	Ve- ne- real.	Mea- sles.	Men- ingi- tis.	Scar- let fever	Deaths.	Annual admission rate per 1,000 (disease only).	Nonef- fective per 1,000 on day of report.
Grant Pike Dodge Funston Travis Lewis Northeastern Department Eastern Department Southeastern Department Central Department Aviation, Signal Corps. Camp Greene Camp Fremont El Paso Fort Slocum Calumbus Barracks. Fort Thomas Jefferson Barracks. Fort Logan Fort McDowell Disciplinary Barracks, Fort	7 15 8 7 33 3 3 3 11 4 22 4 12 41 11 4 12 5	1 1 1	3	10 138 111 588 666 31 13 16 29 85 31 29 125 17 26 5 12 13 6 7 2	12 17 54 26 52 1 1 100 42 146 133 3 4 4 2 146 7 6	2 1 3 2 1 1 3 2 3 1	9 9 11 2 37 2 6 4 9 8 29 1 2	3 3 2 3 8 8 1 1 1 1 7 1 9 1 1	919. 3 3, 056. 9 1, 577. 3 2, 081. 7 3, 081. 8 1, 404. 0 884. 5 1, 456. 7 1, 111. 8 1, 499. 6 986. 5 1, 304. 7 847. 1 1, 1, 62. 2 1, 970. 5 1, 630. 8 2, 025. 2 2, 025. 2 2, 249. 3 1, 698. 6	31.3 95.6 54.4 97.3 72.3 65.8 91.9 27.0 27.0 43.2 44.7 43.2 44.9 39.3 9.3 9.3 9.2 60.3 9.2 77.6 127.1 74.2
Leavenworth. Disciplinary Barracks, Al-			••••	1					1,368.4	30. 5
catraz. Aberdeen Proving Ground Allentown, Artillery Con-			•••••		ı	••••			656. 1 2, 451. 0	15. 7 54. 0
centration Camp. Camp Humphreys. J. E. Johnston. Camp Meigs. Camp Merritt. Camp Stuart. West Point, N. Y. National Guard Depart-	7 1 2 17 19			1 11 25 11 20 9	2 17 7 5 8 19	1	1 1 37 1	4 5	1,516.6 1,858.5 913.3 2,648.6 1,526.4 1,754.1 1,052.0	33. 2 18. 9 32. 0 35. 3 62. 2 53. 7 20. 2
ments	1 15	•••••	1	16 136	24 46	•••••	4 25	2 2		
Total	464	6		2,292	820	37	284	157	1,372.2	47.8

Annual rate per 1,000 for special diseases.

	All troops in United States. ¹	Regulars in United States.1	National Guard, all camps.1	National Army, all camps.1	Expedition- ary Forces.2
Pneumonia. Dysentery. Malaria Venereal. Typhoid Measles. Memingitis. Scarlet fever	19.7 .2 .5 97.1 .2 34.7 1.5	22.0 .2 .2 .6 .6 .6 .7 1.7	20.6 .1 1.3 53.4 10.2 1.9 2.9	16.8 .3 .0.6 .1 31.1 1.3 14.5	21.3 .4 .4 .55.3 26.9 .6.0 10.5

¹ Week ended Mar. 1, 1918.

CURRENT STATE SUMMARIES.

Alabama.

From Collaborating Epidemiologist Perry, by telegraph, for week ended March 9, 1918:

Smallpox, by counties: Butler 9, Jefferson 107, Mobile 25. Epidemic meningitis, by counties: Jefferson 12, Tuscaloosa 2.

² Week ended Feb. 21, 1918.

Arkansas.

From Collaborating Epidemiologist Garrison, by telegraph, for week ended March 9, 1918:

Smallpox: Crossett 1 case, Pine Bluff 4, Fort Smith 10, Black Rock 1, Booneville 1, Texarkana 1, Forest City 7; by counties, Drew 9, Greene 12, Izard 7, Craighead 1, Perry 6, Clark 2, Cross 4. Measles: Crossett 5, Rogers 6, Datto 1, Gurdon 7, Fouke 21, Texarkana 4, Banks 2, Forest City 2, Dermott 5, Huttig 1, Conway 1; by counties, Drew 40, Izard 4, Perry 4, Clark 52. Chicken pox: Gurdon 1, Camden 4; by counties, Drew 10, Perry 2. Tuberculosis: Rogers 3, Gurdon 2, Lonsdale 1, Conway 1, Higden 1; by counties, Greene 1, Clark 6. Meningitis: Augusta 1, Perry County 1. Diphtheria: Gurdon 1. Scarlet fever: Gurdon 2, Izard County 1. Whooping cough: Gurdon 1, Fouke 3, Lonsdale 2, Higden 3; by counties, Greene 8, Perry 10. Report exclusive of Pulaski and Lonoke Counties.

California.

From the State Board of Health of California, by telegraph, for week ended March 9, 1918:

Increases in prevalence of all communicable diseases, especially diphtheria, measles, and smallpox. Of 34 cases smallpox, 16 are in San Francisco. Four epidemic cerebrospinal meningitis, 1 each in Stockton, Riverside County, San Bernardino, and Los Angeles. Two poliomyelitis, 1 San Jose and 1 Tulare County.

Reported by mail for preceding week (ended March 2):

Cerebrospinal meningitis	3	Mumps	182
Chicken pox	185	Pneumonia	65
Diphtheria	51	Poliomyelitis	1
Dysentery	1	Ophthalmia neonatorum	· 2
Erysipelas	9	Scarlet fever	74
German measles	295	Smallpox	25
Gonococcus infection	51	Syphilis	40
Hookworm	. 1	Trachoma	2
Leprosy	1	Tuberculosis	170
Malaria	2	Typhoid fever	12
Measles	1, 298		85

Connecticut.

From Collaborating Epidemiologist Black, by telegraph, for week ended March 9, 1918:

.Smallpox: Hartford 5, Montville 1. Meningitis: Hartford 1, New Milford 1, Wallingford 1, Ansonia 1.

Indiana.

From the State Board of Health of Indiana, by telegraph, for week ended March 9, 1918:

Scarlet fever: Epidemic Lucerne, Warren, Wolf Lake. Measles: Epidemic Renssalaer, Crown Point, Fountain City, Jonesville, Scottsburg, Elizabethtown. Smallpox: Epidemic Odon, South Bend. Diphtheria: Epidemic Wawaka; 1 death Decatur. Whooping cough: Epidemic Zionsville. Infantile paralysis: One case Howe.

Kansas.

From Collaborating Epidemiologist Crumbine, by telegraph, for week ended March 9, 1918:

Meningitis: Augusta 1 (total since February 6 for Butler County 9 cases), Corbin 1, De Soto 1, Eldorado 1, Hollister 1, Little River 1, Towanda 2. Smallpox: In cities, Topeka 16, Wichita 15; in counties, Atchison 24, Crawford 10.

Louisiana.

From Collaborating Epidemiologist Dowling, by telegraph, for week ended March 9, 1918:

Meningitis, excluding Rapides Parish: By parishes, Avoyelles 1, Caddo 1, Catahoula 1, Morehouse 1, Orleans 3, Saint Landry 2.

Massachusetts.

From Collaborating Epidemiologist Kelley, by telegraph, for week ended March 9, 1918:

Unusual prevalence. German measles: Danvers 31, Framingham 36, Newton 50. Measles: Beverly 104, Dartmouth 21, Quincy 70. Smallpox: Lowell 1, Marlboro 1, Milton 1.

Minnesota.

From Collaborating Epidemiologist Bracken, by telegraph, for week ended March 9, 1918:

Smallpox, new foci: Clearwater County, Clearbrook village; Douglas County, Carlos village; Kittson County, Poppleton Township, Lancaster village; Murray County, Lake Wilson village; Ottertail County, Aurdal Township; Pennington. County. Reinner Township; Scott County, Shakopee city; each 1 case; Millelacs County, Milaca village, 2: Mower County, Adams Township, 1; Lodi Township, 2. One cerebrospinal meningitis reported since March 4.

Nebraska.

From the State Board of Health of Nebraska, by telegraph, for week ended March 9, 1918:

Smallpox: Winnebago, Plattsmouth, Scotts Bluff, southern part of Cherry County. Poliomyelitis: Howells. Scarlet fever: Winnebago.

Ohio.

From Collaborating Epidemiologist Freeman, by telegraph, for week ended March 9, 1918:

Zanesville, typhoid fever 8 cases; Middleport, typhoid fever 5 cases.

South Carolina.

From Collaborating Epidemiologist Hayne, by telegraph, for week ended March 9, 1918:

Eight cases meningitis; 1 suspected case; week ended March 10.

Vermont.

From Collaborating Epidemiologist Dalton, by telegraph, for week ended March 9, 1918:

Smallpox: Barre 1, Rutland 3. No other outbreak or unusual prevalence.

Virginia.

From Collaborating Epidemiologist Traynham, by telegraph, for week ended March 9, 1918:

Six cases cerebrospinal meningitis Newport News, 3 Gloucester County, 1 Buchanan County, 1 Petersburg. One case smallpox Louisa County.

Washington.

From Collaborating Epidemiologist Tuttle, by telegraph, for week ended March 9, 1918:

Unusual prevalence communicable diseases in State: Thirty-seven cases scarlet fever Tacoma; German measles epidemic Seattle, Tacoma, and generally over the State.

CEREBROSPINAL MENINGITIS.

California Report for January, 1918.

Place.	New cases reported.	Place.	New cases reported.
California: Alameda County— Oakland Los Angeles County. Los Angeles. Orange County Napa County Riverside County San Diego County— Naval Training Station San Francisco San Francisco.	2 4 2 1 1 2 2	California—Continued. San Bernardino County— Ontario Santa Clara County— San Jose Shasta County Solano County— Mare Island Tulare County— I.indsay Total	3

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cašes.	Deaths.
Alexandria, La Anniston, Ala Atlanta, Ga Augustus, Ga Austin, Tex Baltimore, Md Birmingham, Ala Boston, Mass Charleston, S. C Chattanooga, Tenn Chelsea, Mass Chicago, Ill Cincinnati, Ohio Columbia, S. C Columbia, S. C Columbia, S. C Columbia, S. C Columbia, Ohio Council Bluffs, Iowa Davenport, Iowa Dayton, Ohio Detroit, Mich Elizabeth, N. J.	16 2 9 3 5 1 3 2 1 7 1 2	12 2 2 1 1 1 2 22 22 22 22 22 22 5	Fall River, Mass. Flint, Mich. Greenville, S. C. Hammond, Ind. Indianapolis, Ind. Kansas City, Kans Little Rock, Ark. Los Angeles, Cal. Louisville, Ky. Lowell, Mass. Macon, Ga. Memphis, Tenn. Milwaukce, Wis. Minneapolis, Minn. Montgomery, Ala. Nashville, Tenn. New Albany, Ind. Newark, N. J. New Haven, Conn. New Orleans, La.	1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1
Elizabeth, N. J Evansville, Ind	$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	·····i	New Orleans, La. New York, N. Y. Norfolk, Va.	19 3	- 11 - 2

City Reports for Week Ended Feb. 23, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Oakland, Cal. Passaic, N. J. Philadelphia, Pa Pittsburgh, Pa Providence, R. I. Roanoke, Va. Saginaw, Mich. St. Louis, Mo.	6. 2 1	5 1	Salt Lake City, Utah	2 1 12 1	

DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 368.

ERYSIPELAS. City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal. Altoona, Pa Altoona, Pa Atlanta, Ga Baltimore, Md. Bridgeport, Conn. Chicago, Ill. Cleveland, Ohio. Camberland, Md Dayton, Ohio. Denver, Colo. Detroit, Mich. Easton, Pa Eric, Pa Pall River, Mass. Jackson, Mich. Johnstown, Pa Leavenworth, Kans. Little Rock, Ark Los Angeles, Cal. Louisville, Ky. Memphis, Tenn. Milwaukee, Wis. Montclair, N. J. Newark, N. J.	2 2 2 1 1 3 4 1 1 1 4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1	New Britain, Conn Newburgh, N. Y. Newton, Mass New York, N. Y. Omaha, Nebr Philadelphia, Pa. Pittsburgh, Pa. Pontiac, Mich Portland, Oreg Portsmouth, Va. Providence, R. I. Rochester, N. Y. St. Louis, Mo. St. Louis, Mo. St. Paul, Minn Salt Lake City, Utah San Diego, Cal. San Francisco, Cal. Schenectady, N. Y. Seattle, Wash Toledo, Ohio Trenton, N. J. Wichita, Kans. Williamsport, Pa.	2 4 1 1 1 1	1 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

LEPROSY.

City Reports for Week Ended Feb. 23, 1918.

During the week ended February 23, 1918, one case of leprosy was reported at New Orleans, La., and one death from this disease was reported at Syracuse, N. Y.

MALARIA. California Report for January, 1918.

Place.	New cases reported.	Place.	New cases reported.
California: Butte County Chico Glenn County— Orland Kern County— Bakersfield. Placer County— Rocklin.	5 8 1 1 2	California—Continued. San Francisco County— San Francisco. U. S. N. Training Station San Joaquin County Yolo County— Woodland. Total.	1 1 1 21

MALARIA—Continued.

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Atlanta, Ga	1	i	Little Rock, Ark		

MEASLES.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 368.

PELLAGRA.

California Report for January, 1918.

During the month of January, 1918, 2 cases of pellagra were notified in the State of California, 1 case each in San Diego and San Francisco Counties.

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala. Charleston, S. C. Houston, Tex Lexington, Ky. Lynchburg, Va. Macon, Ga.		3 1 1 3 1	Mobile, Ala	1 2	2 1

PNEUMONIA. City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal	1	1	Lawrence, Mass.	4	
Anniston, Ala	6	l	Lincoln, Nebr	3	;
Atlanta Ga		3	Little Rock, Ark	12	,
Atlanta, Ga	ī	ĭ	Long Beach, Cal.	2	••••••
Auburn N V	2	_	Lorain, Ohio	î	
Baltimore, Md	88	23	Los Angeles, Cal.	21	
Boston, Mass		48	Louisville, Ky	3	1.
Bridgeport, Conn		12	Lynn, Mass.	6	
Brockton, Mass			Manchester, N. II	9	9
Combridge Mass		8	McKeesport, Pa.	2 2	2
Cambridge, Mass Charleston, W. Va	1	i	Melrose, Mass.	3	• • • • • • • • • • • • • • • • • • • •
Chattanooga, Tenn	2		Nashville, Tenn	1	1
	13	7	Newark, N. J.	51	
Chelsea, Mass		88	New Bedford, Mass.	2	9
Chicago, III		. 00	Newport, Ky.	4	1
Chicopee, MassCleveland, Ohio	34	24	North Little Rock, Ark	4	4
Cleveland, Onio	3	3	Norwalk, Conn.		
Covington, Ky	2	i	Ook Pork III	1	1
Cranston, R. I	4	. *	Oak Park, Ill. Pasadena, Cal.	5	• • • • • • • • •
Damber Obje	i	3	Philadelphia, Pa.		4
Dayton, Ohio		42	Pittsburgh, Pa	185	9:
Detroit, Mich		1	Pontiac, Mich	32	33
Duluth, Minn	1	1	Quincy, Mass	3	1
Everett, Mass	3 2	i	Dooding Do	2	. 2
Fall River, Mass	2	1	Reading, Pa. Rochester, N. Y	2	• • • • • • • • • •
Fitchburg, Mass Flint, Mich Frand Rapids, Mich	2	i	Rochester, N. Y	16	7
That, Mich	1 2 2		Rutland, Vt	1	• • • • • • • • • •
rand Kapids, Mich	2	1 3	Secramento, Cal	1	2
Iammond, Ind	1		St. Joseph, Mo	2	
Iarrisburg, Pa		4	San Francisco, Cal	13	11
lattiesburg, Miss	1	<u>-</u>	Schenectady, N. Y	4	2
Taverhill, Mass	7	1	Somerville, Mass	6	1
Iouston, Tex	5	3	Spartanburg, S. C.	1	. .
ackson, Mich	3	1	Springheid, Mass	18	4
ackson, Miss	8	••••••	Stockton, Cal	4	• • • • • • • • •
ohnstown, Pa	4	3	Taunton, Mass	3	2
Calamazoo, Mich	4	1 ;	Wichita, Kans	2	2
Cansas City, Kans	3		Woburn, Mass Yonkers, N. Y	22	9
ancaster, Pa	3		Yonkers, N. Y	3	3

POLIOMYELITIS (INFANTILE PARALYSIS).

California Report for January, 1918.

Place.	New cases reported.	Place.	New cases reported.
California: Alameda County— Oakland. Los Angeles County— Whittier. Plumas County Sacramento County— Sacramento.	1 1 2 1	California—Continued. Sonoma County. Tulare County— Visalia. Yuba County. Total.	2 1 1 9

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Milwaukee, Wis	6 1 1	1 1	Quincy, Ill	1 1 1	i

RABIES IN MAN.

City Reports for Week Ended Feb. 23, 1918.

During the week ended February 23, 1918, two deaths from rabies were reported at Erie, Pa.

SCARLET FEVER.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 368.

SMALLPOX.

Missouri-Kansas City.

During the period from March 6 to 12, 1918, 108 cases of smallpox were notified at Kansas City, Mo.

Texas-Eagle Pass-Virulent Smallpox.

During the week ended March 11, 1918, 10 new cases of smallpox, with 1 death, were notified at Eagle Pass, Tex., making a total of 108 cases of the disease, with 18 deaths, reported since January 1, 1918.

Texas-Lamar County.

On March 11, 1918, the presence of smallpox was reported in Lamar County, Tex., where about 250 cases of the disease, with 1 death, had occurred since December 1, 1917.

SMALLPOX—Continued.

California Report for January, 1918.

			Vaccination history of cases.				
	New cases reported.	Deaths.	Number vaccinated within 7 years pre- ceding attack.	Number last vaccinated more than 7 years preceding attack.		Vaccination history not obtained or uncertain.	
California:							
Fresno County—		1	Į.	1 1	2	1	
Fresno	3		·····	1	1 1		
Imperial County	1						
El Centro					1		
Holtville	2				2		
Kern County—		1		l			
Bakersfield	1	(1	<u>-</u>	
Maricopa Los Angeles County—	2			j		2	
Los Angeles County-		l	l	1	į	l	
Glendale	1	1	l	1		l	
Los Angeles	5		1		5	 	
Venice	1				1		
Nevada County	3				3		
Grass Valley	ĩ				i		
Nevada City	3				3		
Orange County	ĭ		• • • • • • • • • • • • • • • • • • • •		ĭ	• • • • • • • • • • • • • • • • • • • •	
Santa Ana	1	• • • • • • • • • •			i		
Riverside County—	1		• • • • • • • • • • • • • • • • • • • •		1		
Riverside	1				1		
Sacramento County—							
Sacramento	3				3		
San Bernardino County—							
San Bernardino	1				1		
Needles	1				1		
Redlands	2			<i></i>	2		
San Francisco County-	_			1	- 1		
San Francisco	6				6		
Shasta County	1					1	
Ventura County	ĩ				1		
Total	42	t	1	2	37	3	
	74			- 1	0. 1		

Miscellaneous State Reports.

During the month of December, 1917, 18 cases of smallpox were reported in the State of Idaho, and during January, 1918, 5 cases were reported in the same State.

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio	20		Covington, Ky	2	
Alton, Ill	6		Dayton, Ohio	11	
Atlanta, Ga	1 2	i	Des Moines, Iowa	29 54	
Berlin, N. H Birmingham, Ala	9 72		Dubuque, Iowa	7 1	
Butte, MontCanton, Ohio	6 5		Erie, Pa Evansville, Ind	6 5	· · · · · · · · · · · · · · · · · · ·
Cedar Rapids, IowaCharleston, W. VaChattanooga, Tenn			Flint, Mich	5	
Chicago, III	Ğ		Galesburg, Ill	1	
Cleveland, Ohio			Hammond, Ind	1	
Colorado Springs	3		Hattiesburg, Miss	9	
Columbus, Ohio			Indianapolis, Ind	59 1	

SMALLPOX—Continued.

City Reports for Week Ended Feb. 23, 1918—Continued.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Kansas City, Kans. Knoxville, Tenn. Knoxville, Tenn. Kokomo, Ind. La Crosse, Wis. Leavenworth, Kans. Lexington, Ky. Lincoln, Nebr. Little Rock, Ark. Lorain, Ohio. Los Angeles, Cal. Louisville, Ky. Lowell, Mass. Macon, Ga. Madison, Wis. Milwaukee, Wis.	6 1 10 7 1 5 35 2 4 1 10 2		New Orleans, La. New York, N. Y. North Little Rock, Ark. Ogden, Utah. Oklahoma City, Okla. Omaha, Nebr. Pontiac, Mich. Portland, Oreg. Quincy, Ill. St. Joseph, Mo. St. Louis, Mo. St. Paul, Minn. Salt Lake City, Utah. San Francisco, Cal. Sioux City, Iowa.	1 2 33 342 12 12 12 19 27 4 27 27	
Minneapolis, Minn	17 7 10 4		Sioux City, Iowa South Bend, Ind Steelton, Pa Terre Haute, Ind Toledo, Ohio Wheeling, W. Va. Wichita, Kans	1 1 3	

TETANUS.

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Harrisburg, Pa Mobile, Ala	1	1 2	New York, N. Y	i	1 2

TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 368.

TYPHOID FEVER.

State Réports for December, 1917, and January, 1918.

Place.	New cases reported.	Place.	New cas: reported.
California (Jan. 1-31, 1918): Alameda County— Emeryville. Oakland. Hayward Colusa County— Colusa. Fresno County. Clovis. Fresno. Humboldt County Lassen County— Susanville. Los Angeles County— Alhambra. Long Beach Los Angeles. Monterey County— Brea. Placer County— Brea. Placer County Sacramento County Sacramento County Sacramento County— Hollister	1 6 1 1 4 1 1 1 1 2 2 1 1 3 3 3 3 1 1 1 1 1 1 1 1	California (Jan. 1-31, 1918)—Continued. San Bernardino County— Needles. San Bernardino. San Diego County— San Diego. San Francisco County— San Francisco. San Joaquin County Stockton. San Mateo County Santa Barbara County— Santa Maria. Santa Clara County Siskiyou County Dunsmuir. Sutter County Stanislaus County— Modesto. Tehama County Corning. Total. Idaho (Dec. 1-31, 1917).	1 1 3

TYPHOID FEVER-Continued.

City Reports for Week Ended Feb. 23, 1918.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Altoona, Pa Baltimore, Md Birmingham, Ala Boston, Mass Braddock, Pa Brockton, Mass Chicago III Cincinnati, Ohio Columbus, Ohio Detroit, Mich East Chicago, Ind Eric, Pa Everett, Mass Fitchburg, Mass Flint, Mich Hammond, Ind Harrisburg, Pa Indianapolis, Ind Kansas City, Kans Kokomo, Ind Little Rock, Ark Long Branch, N. J Los Angeles, Cal Minneapolis, Minn Moline, III New Bedford, Mass New Britain, Conn.	1 2 1 2 2 2 2 7 1 1 1 1 4 4 10 2 1	1	St. Louis, Mo. San Francisco, Cal. Seattle, Wash Springfield, Ohio. Stockton, Cal. Tacoma, Wash Trenton, N. J. Wheeling, W. Va. Wichita, Kans.	1 1 2 7 7 2 2 1 1 2 2 2 1 1 1 2 2 1 1 1 1	1 1 1 1 1 1

TYPHUS FEVER.

Massachusetts-Chelsea.

On February 27, 1918, a case of typhus fever was reported in Chelsea, Mass., in the person of L. T., male, aged 47 years, a store-keeper, who had lived at 137 Walnut Street for a period of 2 years, had not visited any other place during the last month previous to the attack. The symptoms and history of the case were typical, but the source of infection could not be determined. Careful investigation failed to show any vermin on persons in the family or in the residence.

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS. State Reports for November, 1917, and January, 1918.

	Cases reported.			
State.	Diph- theria.	Measles.	Scarlet fever.	
California, Jan. 1-31, 1918	340	2,561	559 10	
Idaho, Jan. 1-31, 1918	21	5	19	

City Reports for Week Ended Feb. 23, 1918.

4 ₁	Popula- tion as of July 1, 1916	Total deaths	Diph	theria.	Mea	asles.		rlet ver.		iber- osis.
City.	(Estimated by U. S. Census Bureau.)		Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants: Baltimore, Md Boston, Mass Chicago, Ill Cleveland, Ohio Detroit, Mich Los Angeles, Cal New York, N. Y Philadelphia, Pa Pittsburgh, Pa St. Louis From 300,000 to 500,000 inhabit	589, 621 756, 476 2, 497, 722 674, 073 571, 784 503, 812 5, 602, 841 1, 709, 518 579, 090 757, 309	266 298 661 166 239 162 1,579 655 191 220	16 66 144 54 53 16 227 42 22 61	1 11 18 1 8 1 16 4	152 143 55 14 22 302 1,125 245 90 147	6 	13 27 62 10 43 17, 116 44 3 33	1 1 2 2 2	65 59 319 23 43 42 251 108 28 65	32 33 69 21 23 25 172 67 9 20
ants: Cincinnati, Ohio. Jersey City, N. J. Milwaukee, Wis. Minn apolis, Minn Newark, N. J. New Orleans, La. San Francisco, Cal. Seattle, Wash Washington, D. C. From 200,000 to 300,000 inhabit	410, 476 306, 345 436, 535 363, 454 408, 894 371, 747 463, 516 348, 639 363, 980	95 149	13 13 5 7 18 26 10 8 14	1 1	18 76 168 37 209 81 80 71 271	3 1	1 13 34 24 13 2 10 9	1	19 11 23 55 36 27 4 31	19 2 6 21 25 22 6 16
ants: Columbus, Ohio Denver, Colo Indianapolis, Ind Louisville, Ky Portland, Oreg Providence, R. I. Rochester, N. Y. St. Paul, Minn. From 100,000 to 200,000 inhabit-	214, \$78 260, \$00 271, 708 238, 910 295, 463 251, 960 256, 417 247, 232	76 77 77 99 52 77 77 53	1 16 6 7 13 17	2	103		26 28 35 2 3 5 19 29	1	19 7 13 15	6 13 12 7 4 6 4 6
ants: Albany, N. Y. Atlanta, Ga. Birmingham, Ala Bridgeport, Conn. Cambridge, Mass. Camden, N. J. Dayton, Ohio. Des Moines, Iowa Fall River, Mass. Grand Rapids, Mich Hartford, Conn. Houston, Tex. Lawrence, Mass. Lowell, Mass. Lynn, Mass. Lynn, Mass. Memphis, Tenn. Nashville, Tenn. New Bedford, Mass. New Haven, Conn. Oakland, Cal. Omaha, Nebr. Reading, Pa Richmond, Va Salt Lake City, Utah Scranton, Pa Springfield, Mass. Syracuso, N. Y. Tacoma, Wash Toledo, Ohio. Trenton, N. J. Worcester, Mass. From 50,000 to 100,000 inhabit- ants:	104, 199 190, 558 181, 762 121, 579 112, 981 105, 233 127, 221 101, 598 128, 396 128, 396 128, 396 110, 590 112, 397 100, 500 113, 245 102, 425 148, 995 117, 057 118, 158 149, 685 198, 604 109, 381 156, 687 117, 399 146, 811 105, 942 155, 624 112, 770 191, 551 111, 593 163, 314	67 68 32 58 32 35 55 32 35 50 47 37 39 20 62 46 37 46 51 32 58 50 62 46 51 51 62 53 54 62 54 62 54 62 54 62 54 62 54 62 54 63 64 64 64 64 64 64 64 64 64 64 64 64 64	3 11 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	61 63 29 32 2 3 11 3 13 17 4 9 25 11 22 1	1 1 2 2	2 3 1 1 3 12 12 14 2 6		5 6 6 6 7 7 8 1 9 9 5 2 3 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 4 4 3 7 7 5 1 6 8 1 4 5 7 1 6 111 3 3 2 5 5 2
Akron, Ohio Altoona, Pa Atlantic City, N. J Augusta, Ga Bayonne, N. J Berkeley, Cal	85, 625 58, 659 57, 660 50, 245 69, 833 57, 653	14	10 5	3	11		5		4 1 3 3 2 1	1

City Reports for Week Ended Feb. 23, 1918-Continued.

	Popula- tion as of July 1, 1916.	Total deaths	1 -	itheria.	Me	asles.	See	arlet ver.	To	iber- losis.
City.	(Estimated by U. S. Census Bureau.)	S. all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 50.000 to 100,000 inhabit- ants—Continued. Binghamton, N. Y. Brockton, Mass. Canton, Ohio. Charleston, S. C. Chattanooga, Tenn. Covington, Ky. Doluth, Minn. Elizabeth, N. J. El Paso, Tex. Erie, Pa. Evansville, Ind. Flint, Mich. Fort Wayne, Ind. Harrisburg, Pa. Hoboken, N. J. Holyoke, Mass. Johnstown, Pa. Kansas City, Kans. Lancaster, Pa. Little Rock, Ark. Manchester, N. H. Mobile, Ala. New Britain, Conn. Norfolk, Va. Oklahoma City, Okla. Passaic, N. J. Pawtucket, R. I. Portland, Me. Rockford, Ill. Sacramento, Cal. Saginaw, Mich.	53 973	19	,		14					1.
Brockton, Mass	53, 973 67, 449	18	1		10	1	8 7		1 3	1 2
Canton, Ohio	60,852	19	1		2		i			21142456342213
Charleston, S. C.	60, 734 60, 075	25	5 1		<u>.</u> .					. 1
Chattanooga, Tenn	50,073	. 6	1]	6		1		1	4
Duluth Minn	57, 144 94, 495	25 13	2 2 5		23		3	• • • • • •	2 4	2
Elizabeth, N. J	86,690	24	5		69		3		î	1 5
El Paso, Tex	63, 705	40			14					. 6
Erie, Pa	75, 195	31	6	1	3		5		4	3
Evansville, Ind	76,078 54,772	30 17	3 2		12 4		6		2 7	4
Fort Wayne, Ind	76, 183	22	4		*		1	1	í	3
Harrisburg, Pa	72,015	26	2		13		5		4	ĩ
Hoboken, N. J	77,214	19	1	1	11		2		47	3
Holyoke, Mass	65, 286 68, 529	15	1 2	[9		2		4	1
Koncas City Kans	99, 437	38	1		20 20		19		2 1	1
Lancaster, Pa	50, 853		1		3		6		1	
Little Rock, Ark	57,343	14	2 5		36		3		4	2
Manchester, N. H	78,283	19	5		13		5			1
Mobile, Ala	58, 221 53, 794	29	2 2	1		1		!	<i>-</i>	5
New Britain, Conn	89,612	21	3	• • • • • •	14		2	• • • • • • †		1
Oklahoma City, Okla	92, 943	21	3	•••••	18 10			• • • • • • • • • • • • • • • • • • • •	• • • • •	6
Passaic, N. J.	71,741	20	2	i	1		1		3	1 2 3 5
Pawtucket, R. I	59,411	20			4			'		5
Portland, Me	63,867	28	1		0		1 ;	!		1
Rockford, Ill	55, 185 66, 895	13			19		4 .	••••	1	····i
Saginary Mich	55,642	23 17	2	•••••	39 1		1 : 3 :	1	3	1
St. Joseph. Mo	85,236	32	4		37		5		1	
San Diego, Cal.	85, 236 53, 330	îī			200	1	2			6
Rockford, Ill. Sacramento, Cal. Saginaw, Mich. St. Joseph, Mo. San Diego, Cal. Scheneetady, N. Y. Sioux City, Iowa. Somerville, Mass. South Bend, Ind. Springfield, Ill. Springfield, Ohio. Terre Haute, Ind. Troy, N. Y. Wichita, Kans. Wilkes-Barre, Pa. Wilmington, Del. Yonkers, N. Y.	99, 519	28	3		13				2	3
Sioux City, Iowa	57,078 87,039		•••••	••••	26		23	· • • • • ¦ •		3
South Rend Ind	68,948	23 22	4	1	20		5 .		6	3
Springfield, Ill	61, 120	13	i		32					•••••
Springfield, Ohio	51,550	18			9			1	5	1
Terre Haute, Ind	66,083	21	$\begin{bmatrix} 5 \\ 2 \end{bmatrix}$	1	4		!.			
Troy, N. Y.	77,916	22	2		150		2		5	5 1
Wilkes Barre Pa	76, 776	17	5	•••••	159 59		3 .	•••••	3 3	1
Wilmington, Del	70,722 76,776 94,265	43			11		i i			5
Yonkers, N. Y	99,838		1		6		5 .		2	ï
York, Pa	51,656	• • • • • • • •	2		10		2		6	• • • • •
From 25,000 to 50,000 inhabitants:	27, 732	11		1	7		1 .	1	1	
Auburn N. Y	27,732 37,385	13			7 1		il.			····i
Austin, Tex	34.814	31	!		!					5
Brookline, Mass	32,730 27,632	9	3	1	9		5 .		1	•••••
Butler, Pa	43 495	10 17	3 2	1	59		4		•••••	•••••
Cedar Rapids, Towa	43,425 37,308	- 1	2				4 .			• • • • •
Charleston, W. Va	29,941	15	1		6					
Charlotte, N. C	39,923		1 .		18				4	4
Chelsea, Mass	46.192	20	2 .		28	2	2 .		1	••••
Chicopee, Mass	29,319 27,386 32,971	4	1 .	• • • • • • •	3	••••• •				••••
Colorado Springs Colo	32 971	14	2	•••••	23	•••••	28 . 1 .		4	
From 25,000 to 50,000 inhabitants: Alameda, Cal. Alabura, N. Y Austin, Tex. Brookline, Mass. Butler, Pa Butte, Mont Cedar Rapids, Iowa Charleston, W. Va Charlotte, N. C. Chelsea, Mass. Clinton, Iowa Colorado Springs, Colo Columbia, S. C. Columbus, Ga.	34.611	25	2.		10		1		2	
Columbus, Ga. Council Bluffs, Iowa Cranston, R. I Cumberland, Md. Danville, Ill	25, 950	6								i
Council Bluffs, Iowa	31,484				5		2 .			
Cranston, R. I	25,987	8	1 .		1	• • • • •	1		1	1
Denville III	26, 074 32, 261	6 10	1 :		33	•••••	11 .	•••••	1	1
Davennort, Iowa	48,811	10	i	i	4		16		- 1	•••••
Davenport, Iowa Dubuque, Iowa Durham, N. C	39,873				8 .					i
Durham, N. C.	25,061	5 1.	······ ⁱ ·		7 1.					••••

City Reports for Week Ended Feb. 23, 1918—Continued.

•	Popula- tion as of July 1, 1916.	Total deaths	1 -	theria	. Me	asles.		arlet ver.		ıber- losis.
City.	(Estimated by U.S. Census Bureau.)	from all causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabitants—Continued.										
ants—Continued. East Chicago, Ind. East Chicago, Ind. East Orange, N. J. Eigin, Ill. Elmira, N. Y. Evanston, Ill. Everett, Mass. Fitchburg, Mass. Fort Smith, Ark Galveston, Tex. Green Bay, Wis. Hammond, Ind. Haverhill, Mass. Jackson, Mich. Kalamazoo, Mich. Kenosha, Wis. Kingston, N. Y. Knoxville, Tenn La Crosse, Wis. Lexincton, Ky. Lincoln, Nebr. Long Beach, Cal Lorain, Ohio. Lynchburg, Va. Macon, Ga. Madison, Wis. McKeesport, Pa. Medford, Mass. Moline, Ill. Montelair, N. J.	28,743	11	1	ļ		.ļ	ļ		.	
Easton, Pa	30, 530 42, 458	23	i		11 20		2		_i	1 1
Elgin, Ill.	28, 203	8 9			3	1	1			
Elmira, N. Y	38, 120	4		1	43		1	1	3	1
Everett Wass	28, 591 39, 233 41, 781	7 9	6		20 10		2		6	·¦
Fitchburg, Mass	41,781	11			12		ĩ		3	
Fort Smith, Ark	28,638				1				·	
Green Bay Wis	41,863 29,353	16 6		••••	1 8		2	• • • • • •	4	
Hammond, Ind	26, 171	21	i		2		3		i	
Haverhill, Mass	48, 477 35, 363	9 18	9	•••••	18		3	1 2	4	
Kalamazoo, Mich	48, 886	11	2	····i	6 5		15	Z	4	1
Kenosha, Wis	31,576	3	8	••••	4		3	1		
Kingston, N. Y	26,771 38,676	7	····i	•••••	65	• • • • • •		•••••	i	····i
La Crosse, Wis	31,677 41,097	6	3				2		î	
Lexington, Ky	41,097	16		• • • • •	24				! <u>-</u> -	3
Lincom, Nebr	46,515 27,587	10 15	•••••	•••••	7 64	•••••	5 4	•••••	1	1
Lorain, Ohio	35,964	•••••	2	• • • • • •			î		١	
Lynchburg, Va	32,940	14	1	•••••	7		3	•••••	4	
Madison, Wis	45, 757 30, 699	23 8	1 1	•••••	12 25		3		1	2
McKeesport, Pa	47, 521	14	2		14		1		١	2
Medford, Mass	26, 234 27, 451	8 9	1	•••••	5 8		2 2	•••••	1	1
Montelair, N. J.	26,318 43,285	3	1		116		2		1	i
Montgomery, Ala	43, 285	11			19		1		·	3
Muncie, Ind	25, 424 44, 218	8	1		6 14				1	1
Nashua, N. H.	27,327	12	î l	اًا					'	
Medford, Mass Moline, Ill Montclair, N. J. Montgomery, Ala Muncie, Ind. Muskogce, Okla Nashua, N. H. Newburgh, N. Y. New Castle, Pa Newport, Ky. Newport, Ky. Newport, R. I. Newton, Mass Niagara Falls, N. Y. Norristown, Pa Norwalk, Conn Oak Park, Ill Ogden, Utah Orange, N. J. Pasadena, Cal	29,603	7	2	•••••	8				2	1
New Castle, Pa Newport, Kv	41, 133 31, 927	11	•••••	• • • • • •	20		;	• • • • •	····i	1
Newport, R. I.	30, 108	8	2				i			
Newton, Mass	43,715 37,353	16	2	1	37		•••••	•••••	1 1	2
Norristown, Pa	31,401	10 7			1		1			2
Norwalk, Conn	26,899								1	2
Oak Park, III	26,654 31,404	10	1		18 24		3	• • • • •	1	1
Orange, N. J.	33,080	13			14				3	2
Pasadena, Cal	46,450	17		•••••	74			•••••	3	1 2
Petersburg, Va	41, 185 25, 582	15	···i	•••••	1 9	•••••	1	•••••	2 4	
Pittsfield, Mass	38,629	7			5		3 .		i	3 2
Portsmouth, Va	39,651 36,798	17	-		11		1 .	;		2
Quincy, Mass	38, 136	11 17	2		8 49		3		i	····· <u>2</u>
Racine, Wis.	46,486	14	ī ļ.		21		2 .		2	
Roanoke, Va	43, 284 28, 926	13		···i	18 21					3
San Jose, Cal	38, 920		î.	1	31		2 .		4	
Pasadena, Cal. Perth Amboy, N. J. Petersburg, Va. Pittsfield, Mass. Portsmouth, Va. Quincy, Ill. Quincy, Ill. Quincy, Mass. Racine, Wis. Roanoke, Va. Rock Island, Ill. San Jose, Cal. Steulenville, Ohio. Stockton, Cal. Superior, Wis. Taunton, Mass. Waltham, Mass. Wattham, Mass. Wattham, M. Y. West Hoboken, N. J. Wheeling, W. Va. Williamsport, Pa. Wilmington, N. C. Winston-Salem, N. C. Zanesville, Ohio.	27, 445	15	٠	• • • • •	1 .					· • • • •
Superior Wis	35, 358 46, 226	14 12	· · · · · · ¦ ·		41 17		1 .	•••••		· • • • •
Taunton, Mass	36, 283	11	· • • • • • • • • • • • • • • • • • • •		1 .		!		10	4
Waltham, Mass	35, 283 30, 570	7 .		••••	3 .		1 .	¦-		1 3
West Hoboken, N. J	29, 894 43, 139	3	1 -	• • • • •	16 .			•••••		
Wheeling, W. Va	43, 377	13			1 2					3
Williamsport, Pa	33, 809 29, 892	8 19	4 .			•••••	1		¦-	3
Winston-Salem, N. C.	29, 892 31, 155	19 . 26			35		·····		7	
Zanesville, Ohio	30, 863	8			٠.٠٠).				7 1	2 .

City Reports for Week Ended Feb. 23, 1918—Continued.

							,			
	Popula- tion as of July 1, 1916.	Total deaths	Diph	theria.	Me	asles.	· Sca	arlet ver.		ber- osis.
City.	(Estimated by U.S.	from all	1	نما	1	l	İ	ي ا	1	ي ا
	Census	causes.	93	Deaths.	Cases.	Deaths.	8	Deaths.	si	Deaths.
	Bureau.)	Causes.	Cases.	8	8	- F	8	1 2	8	1
	Durosu.)	l	రొ	Ã	ට්	Ă	Cases.	ΙĂ	Cases.	۱۵
From 10,000 to 25,000 inhabit-					1			l .	l	i
ants:			1		İ			1	i	l
Alexandria, La	15, 333	6			4			i	i	
Alton, Ill	22, 874	11	2		10					····i
Ann Arbor, Mich	15,010	7	3		14		1		2	l
Anniston, Ala	14, 112				3				l	
Beaver Falls, Pa	13, 532				1	ll				
Berlin, N. H	13,599	2	1		• • • • • •					
Braddock, Pa	21,685	5		• • • • • •	5					
Cairo, Ill	15, 794	12	•••••	•••••						4
Chillicothe, Ohio	15, 470	3	•••••		2				• • • • • •	• • • • • •
Clinton, Mass	1 13, 075	5		•••••	2	•••••	2	•••••	• • • • • •	
Concord, N. H.	17,548 22,669	10	2		22 2		:-	•••••	•••••	1
Galesburg, Ill.	24, 276	8	2	2	5		1		• • • • • •	•••••
Greenville, S. C.	18, 181	7			5		1		····i	•••••
Hattiesburg, Miss	16, 482	• •			3	•••••	····i		1	
Kearney, N. J.	23, 539	11		•••••	าเ		i		i	•••••
Kokomo, Ind	20, 930	ii			3		il	•••••	il	1
La Favotta Ind	21, 286	6			2		2		- 1	•••••
. Leavenworth, Kans	1 19, 363	4								
Leavenworth, Kans. Long Branch, N. J.	15,395	2								
Marinette, Wis	1 14,610	4					1			i
Melrose, Mass	17,445	4			2					•••••
Muscatine, Iowa	17,500				3		1 .	.		
Nanticoke, Pa	23, 126	9	1				5	.		• • • • •
New Albany, Ind.	23, 629	12	• • • • •	•••••	1	-		.		•••••
Newburyport, Mass North Adams, Mass	15, 243	7 .	•••••		2		• • • • • •			2
Northampton, Mass	1 22, 019 19, 926	12 13	•••••	•••••		-		• • • • • •	1	••••••
North Little Rock, Ark	14, 907	2	•••••	•••••	4	•••••	3 .	• • • • • •	2 2	1
Plainfield, N. J.	23, 805	11	•••••		*		i		í	• • • • • •
Pontiac, Mich	17, 524	15	2		i	•••••	4		9	·····2
Portsmouth, N. H	11,666	ĭ	ĩ l		7		4	i.		
Rocky Mount, N. C	12,067	4 1.			2			٠ا	2	
Rutland, Vt	14,831	9 .								
Rutland, Vt. Sandusky, Ohio Saratoga Springs, N. Y. Spartanburg, S. C.	20, 193	6 .								
Saratoga Springs, N. Y	13, 821	3 .			1 .				1 .	
spartanburg, S. C	21,365	9 .			7	3 .			1 .	
D00010011, Fa	15,518	2	1 .		1 .		5 .			••••
Washington, Pa	21,618 .				101 .		1 .			• • • • •
Wilkinsburg, Pa Woburn, Mass.	23, 228	14	•••• •		6 .					••••
wormin, brass	15, 969	6 .		-				-	-	••••
	,	1	1		,		,	i	1	

¹ Population Apr. 15, 1910; no estimate made.

FOREIGN.

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

Reports Received During Week Ended Mar. 15, 1918.1

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China: Cochin-China— Saigon Straits Settlements: Singapore.	Dec. 31-Jan. 6	2	1	
	SMAL	LPOX.		
Algeria: Algiers	Jan. 1-31	2		
Rio de Janeiro Canada: Nova Scotia— Sydney	Jan. 19-26 Feb. 17-23	38	9	
Ontario— Sarnia China:	Feb. 24-Mar. 2	3		
Chungking	Dec. 30-Jan. 12 Jan. 20-26 Jan. 21-27 Jan. 20-26	2 5 4	7	Present.
Cochin-China— Saigon Italy: Turin	Dec. 31-Jan. 6 Jan. 14-Feb. 3	17 53	10 6	
Mexico: Aguascalientes Mazatlan Vera Cruz	Feb. 11-17 Feb. 13-19 Feb. 10-16	2	1 1	
Newfoundland: St. Johns. Porto Rico: San Juan.	Feb. 16-22 Feb. 11-17	4	•••••	
Russia: Archangel Straits Settlements:	Sept. 1-Oct. 31	7	• • • • • • • •	
Singapore	Dec. 23-29 Dec. 30-Jan. 5	2 1		
	TYPHUS	FEVER		
Great Britain: Belfast	Feb. 10-16.	4	1	
Greece: Saloniki	Dec. 30-Jan. 19	- 1	11	
Nagasaki	Jan. 28-Feb. 3	2		
Cape of Good Hope State	Nov. 19-25	37	7	Sept. 10-Nov. 25, 1917: Cases, 3,724 (European, 31; native, 3,693); deaths, 761 (European, 5; native, 756).

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

Reports Received from Dec. 29, 1917, to Mar. 8, 1918.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:	N 00 7 - 0			
Antung	Nov. 26-Dec. 2	. 3	1	ı
India: Bombay	Oct. 28-Nov. 24	17	12	. [
Calcutta	Sept. 16-Dec. 8	1	. 81	
Madras	Sept. 16-Dec. 8 Nov. 25-Dec. 1	1	1	ĺ
Rangoon	Nov. 4-Dec. 1	3	3	
Indo-China:		l	1	G 1 O-1 01 101 G
Provinces	Sept. 1-Oct. 31	17	13	Sept. 1-Oct. 31, 1917: Cases, 113; deaths, 57.
Cambodia	do	41		deaths, or.
Cochin-China	do	43		i
Saigon	Nov. 22-Dec. 9	4	3	
Kwang-Chow-Wan	Sept. 1-30	10	2	
Java: East Java	Oct. 28-Nov. 3	1	1	· ·
West Java		l		Oct. 19-Dec. 20, 1917; Cases, 100;
Batavia	Oct. 19-Dec. 20	55	21	deaths, 57.
Persia:		•	I	
Mazanderan Province	Tul 20 Aug 16			July 30-Sept. 3, 1917: Cases, 381;
AchrafAstrabad	July 30-Aug: 16	90	88	deaths, 276. Present.
Barfrush	July 31 July 1-Aug. 16	39	25	1 1000110.
Chahmirzad				25 cases reported July 31, 1917.
Chahrastagh	June 15-July 25	10	8	1
Charoud	Aug. 26-Sept. 3	4	2	
Damghan	Aug. 26			Present.
Kharek Meched	May 28-June 11 Aug. 18-Sept. 2	21 174	13 82	
Ouzoun Dare	Aug. 8		02	Do.
Sabzevar	Aug. 8			Do.
Sari	July 3-29	273	144	
Semnan	Aug. 31-Sept. 2	14	5	
Yekchambe-Bazar	June 3	6		
Philippine Islands: Provinces			1	Nov 18-Dec 22 1017: Coses
Antique	Nov. 18-Dec. 1	48	32	Nov. 18-Dec. 29, 1917; Cases, 1,053; deaths, 693, Dec. 30, 1917-Jan. 19, 1918; Cases, 447;
Bohol	Nov. 18-Dec. 29	169	111	1917-Jan. 19, 1918; Cases, 447;
Do	Dag 20-Ton 10	57	52	deaths, 192.
Capiz	Nov. 25-Dec. 29 Dec. 30-Jan. 19 Dec. 23-29 Dec. 30-Jan. 19	27	21	
Do Cebu	Dec. 30-Jan. 19	41 3	35	
Do.	Dec. 30-Jan. 19	36	17	
Iloilo	NOV. 20-DEC. 29	179	135	
Do	Dec 20_Ten 10	42	27	·
Leyte	Nov. 25-Dec. 22 Nov. 25-Dec. 29 Dec. 30-Jan. 19 Nov. 25-Dec. 22	13	12	. *
Mindanao	Nov. 25-Dec. 29	337 224	196 135	€ .a c 100€
Do	Nov 25-Dec 22	177	123	t Call with
Occidental Negros Do	Jan. 13-19	45	15	30,6%
Oriental Negros	Jan. 13–19 Nov. 25–Dec. 29	99	62	n de junt € n
1)0	Dec. 30-Jan. 19	12	11	1 4 1 14 -
Romblon	Nov. 25-Dec. 1	1	1	
Siam: Bangkok	Sept. 16-22	1	1	
Turkey in Asia:	Sept. 10-22	- 1	•	
Bagdad	Nov. 1-15		40	
	PLAC	THE.		
•				
Brazil:				
Rahia	Nov. 4-Dec. 15	4	4	-
Do	Dec. 30-Jan. 12 Dec. 23-29	3	2	
Rio de Janeiro Do	Jan. 6-12	1 1	i	
British Gold Coast:	- LE	-	- 1	
Axim	Jan. 8			Present.
Ceylon:	1	1	- 1	
	Oct. 14-Dec. 1	14	13	Sont 1 Nov 20 1017: Care 40.
EcuadorGuayaquil	Sept. 1-30	3	·····i1	Sept. 1-Nov. 30, 1917: Cases, 68; deaths, 24.
Do	Oct. 1-31	20	8	wouldn't are
Do	Nov. 1-30	45	15	
		•	•	

Reports Received from Dec. 29, 1917, to Mar. 8, 1918—Continued.

PLAGUE—Continued.

•	Piace.	Date.	Cases	. Deaths	. Remarks.
Egypt Port Sai		7-1-00 00			Jan. 1-Nov. 15, 1917: Cases, 728
India	Id	. July 23-29,	.] 1	1 2	deaths, 398.
Bombay		. Oct. 28-Dec. 1	103	8	Sept. 16-Dec. 1, 1917: Cases, 151,751; deaths, 113,434.
Calcutta	/	. Sept. 16-29	100	3	101,751, deaths, 115,454.
Henzada	3	Oct. 21-27		i	
Karachi		Oct. 21-Dec. 1 Oct. 31-Nov. 17	. 11		
MARGITAS .	Presidency	. Oct. 31-Nov. 17	3, 294	2,560	
Mandala	у	.] Oct. 13-140v. 17		. 86	
Rangooi Indo-China:	1	. Oct. 21-Dec. 1	. 32	5 J 38	
Province	95		ì	f	. Sept. 1-Oct. 31, 1917: Cases, 70;
Ana	m	Sept. 1-Oct. 31	25	24	deaths, 64.
	bodia	do	30		1
	in-China	do	15 17		
fava:	Saigon	Oct. 31-Dec. 23	1 4	6	' 1
East Jav	a			. ľ	. Oct. 27-Nov. 25, 1917: Cases, 75;
Sura	baya	Nov. 11-25	2	2	deaths. 73.
West Jav	va			.	l Nov. 25-Dec. 9, 1917: Cases, 45:
	_	l		1	deaths, 45.
Peru	1 lanamemane	·····		.	deaths, 45. Dec. 1, 1917–Jan. 15, 1918: Cases, 106.
Casn	Department—	Dec. 1-Jan, 15	2	1	100.
Lambay	eque Department	do	22	1	At Chiclayo, Ferrenafe, Jayanca,
	eden a character		_	1	Lambayeque.
Libertad	Department	do	72	1	Lambayeque. At Guadalupe, Mansiche, Pacas-
				l	i mayo, Salayerry, San Jose, San
				1	Pedro, and country district of Trujillo.
Lima 1)	partment	do	9	i	City and country.
Piura De	parlment-				Oily and country.
Catao	eaos	do	1	1	
enegal:				1	
St. Louis		Feb. 2		.]	Present.
liam:		Sept 16-Dec. 23	13	9	1
Bangkok traits Settle	mants.	σερι 10-Dec. 23	19	. 9	
Singapor	P	Oct. 28-Dec. 22	4	6	1
				<u> </u>	1
	-	SMAL	LPOX.		
Algeria:		SMAL	LPOX.	<u> </u>	
Algiers	-	SMAL Nov. 1-Dec. 31	LPOX.		
Algiers Australia:				. 1	
Algiers Australia: New Sou	th Wales.	Nov. 1-Dec. 31	3	1	July 12-Dec. 20, 1917: Cases, 36.
Algiers Australia: New Sou Aberi	main	Nov. 1-Dec. 31 Oct. 25-Nov. 29	33	1	; Jan. 4–17, 1918: Cases, 1.
Algiers Australia: New Sou Aberi Cessn	mainock	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11	3 3 7	1	July 12-Dec. 20, 1917: Cases, 36. Jan. 4-17, 1918: Cases, 1. Newcastle district.
Algiers Australia: New Sour Aberr Cessn Eum	mainockangla,i Kurri	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11	3 3 7 1	1	Jan. 4–17, 1918: Cases, 1.
Algiers ustralia: New Sour Aberi Cessn Eum Kurr Mung	mainock anglai Kurrii	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13.	3 3 7	1	Jan. 4–17, 1918: Cases, 1.
Algiers Ustralia: New Sour Aberi Cessi Euma Kurr Mung Warn	main	Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13. July 12-Oct. 25	3 7 1 2 1 22	1	Jan. 4–17, 1918: Cases, 1.
Algiers Australia: New Sour Aberr Cessn Eum Kurr. Mung Warn	mainock anglai Kurrii	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13.	3 7 1 2	1	Jan. 4–17, 1918: Cases, 1.
Algiers Australia: New Sour Aberr Cessn Euma Kurr Mung Warn Drazil:	main	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17	3 7 1 2 1 22 1	1	Jan. 4–17, 1918: Cases, 1.
Algiers ustralia: New Sour Aberi Cessn Eumm Kurri Mung Warn Drazil: Bahia	main ock angla i Kurri indi en	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8	3 7 1 2 1 22 1	1	Jan. 4–17, 1918: Cases, 1.
Algiers Australia: New Sou Aberi Cessin Euma Kurri Mung Warri Drazil: Bahia Pernambi	main ock angla i Kurri indi en	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec, 8 Nov. 1-15	3 7 1 2 1 22 1		; Jan. 4–17, 1918: Cases, 1.
Algiers Australia: New Sou. Aberi Cessn Euma Kurr. Mung Warr D Brazil: Bahia Pernambi Rio de Ja	main ock angla i Kurri indi en	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec, 8 Nov. 1-15	3 7 1 2 1 22 1 3 1 703	190	; Jan. 4–17, 1918: Cases, 1.
Algiers New Sour Aberi Cessin Euma Kurr. Mung Warn Drazil: Bahia Pernambi Rio de Ja	main ock angla i Kurri indi en	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8	3 7 1 2 1 22 1		; Jan. 4–17, 1918: Cases, 1.
Algiers New Sou- New Sou- Aberi Cessn Euma Kurr. Mung Warr Bahia Pernambi Rio de Ja Do Sao Paul: anada:	main oock angla i Kurri jindi en oo neiro	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec, 8 Nov. 1-15 Sept. 30-Dec, 29 Dec. 30-Jun. 19	3 7 1 2 1 22 1 3 1 703	190 33	; Jan. 4–17, 1918: Cases, 1.
Algiers New Sour Aberi Cessn Eum Kurr Mung Warr Bahia Pernambi Rio de Ja Do Sao Paultanada:	main oock angla i Kurri ;indi en oo	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec, 8 Nov. 16-Dec, 8 Nov. 1-15 Sept. 30-Dec, 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4	3 7 1 22 1 22 1 703 120	190 33	; Jan. 4–17, 1918: Cases, 1.
Algiers New Sour Aberi Cessn Euma Kurr. Mung Warr D Frazil: Bahia Pernambi Rio de Ja Do Sao Paul Covanca Serisish Covanca Vanca V	main oock angia i Kurri jindi en oo uco neiro oo	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 1-15. Sept. 30-Dec. 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4	3 7 1 2 1 22 1 703 120	190 33	Jan. 4–17, 1918: Cases, 1.
Algiers New Sour Aberi Cessn Euma Mung Warr Mung Warr Derazil: Bahia Pernamb Rio de Ja Do Sao Paul: anada: British CC Victor	main oock angla i Kurri jindri en oo neiro olumbia—	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2	3 7 1 2 2 1 3 1 703 120	190 33	Jan. 4–17, 1918: Cases, 1.
Algiers New Sour Aberi Cessin Euma Kurr. Mung Warre Bahia Pernambi Rio de Ja Do Sao Paul: anada: British CG Vance Victor	main oock angla i Kurri jindi en oo uco neiro blumbia— buver ia jipeg	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 1-15. Sept. 30-Dec. 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4	3 7 1 2 1 22 1 703 120	190 33	Jan. 4–17, 1918: Cases, 1. Newcast le district.
Algiers ustralia: New Sour Aberi Cessn Euma Kurr Mung Warr Bahia Pernambi Rio de Ja Sao Paul: anada: British Cc Victor Winn New Brm	main oock angla i Kurri jindi en oo uco neiro blumbia— buver ia jipeg	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17. Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2	3 7 1 2 2 1 3 1 703 120	190 33	Jan. 4–17, 1918: Cases, 1. Newcast le district.
Algiers New Sour Aberi Cessn Euma Kurr Mung Warr Bahia Pernambi Rio de Ja Sao Paulanda: British CC Victor Winn New Brm	main oock angla i Kurri jindi en oo uco neiro blumbia— puver in ipeg	Nov. 1-Dec. 31 Oct. 25-Nov. 29. July 12-Oct. 11 Aug. 15. Dec. 5-20. Aug. 13. July 12-Oct. 25. Jan. 1-17. Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29. Dec. 30-Jan. 19. Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5	3 7 1 2 2 1 3 1 703 120	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of
Algiers New Sour Aberi Cessin Euma Kurr. Mung Warr Bahia Pernambi Rio de Ja Do Sao Paul: anada: British Co Vance Victor Winn New Brm Kent	main oock angla i Kurri jindi en oo ueo neiro blumbia— buver ia. jpeg nswick— County	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec, 8 Nov. 1-15 Sept. 30-Dec, 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4 Jan. 22	3 7 1 2 2 1 3 1 703 120	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of Moneton. In 7 localities.
Algiers ustralia: New Sour Aberi Cessn Euma Kurr Mung Warr Bahia Pernambi Rio de Ja Sao Paul: anada: British Cc Vance Vintor Winn New Brm Kent	main oock angla i Kurri iindi en oo uco neiro oolumbia puver iia ipeg sswick County	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec, 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4	3 7 1 2 1 22 1 703 120	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of Moncton.
Algiers New Sour Aberi Mung Warr Mung Warr Bahia Pernambr Rio de Ja Do Sao Paula anada: British Co Vanco Victor Winn New Brun Kent	main oock angla i Kurri jindi en ooc neiro luco neiro lumbia— puver ria pieg swick— County h um ber land	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec, 8 Nov. 16-Dec, 29 Dec. 30-Jan. 19. Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4 Jan. 22 do	3 7 7 1 2 2 1 222 1 703 120	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of Moncton. In 7 localties.
Algiers New Sour Aberi Cessn Euma Kurr. Mung Warr Bahia Pernambi Rio de Ja Do Sao Paul: anada: British Co Vance Victor Winn New Brm Kent Do Nort Cour Restig	main oock augia i Kurri iiadi en oo uco neiro blumbia— uver iia jieg nswick— County h u m berland	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oet. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4 Jan. 22 do Jan. 18	3 3 7 7 1 2 2 1 1 222 1 1 703 120 4 2 1 1 40 41 60	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of Moncoton. In 7 localities. In 5 localities.
Australia: New Sou: Aberi Cessa Euma Kurri Mung Warr Brazil: Bahia Pernambi Rio de Ja Do Sao Paul: anada: British Cc Vance Victor Winn New Brm Kent Do Nort Cou Restig Victor	main oock augla i Kurri ;indi en oo ueo neiro Jumbia— puver iin ipeg swick— County h u m b e r la n d nty, ooche County	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oct. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4 Jan. 22 do Jan. 18 Jan. 18 Jan. 18	3 7 1 2 1 22 1 703 120 120 120 40 41 60 10	190 33	Outbreak. On main line Canadian Ry., 25 miles north of Moncton. In 7 localities. At Limestone and a lumber
Algiers New Sour Aberi Cessin Euma Kurri Mung Warr Brazil: Bahia Pernambi Rio de Ja Do Sao Paul: anada: British Co Vance Victor Winn New Brm Kent Cour Restig Victor Westr	main oock augia i Kurri iiadi en oo uco neiro blumbia— uver iia jieg nswick— County h u m berland	Nov. 1-Dec. 31 Oct. 25-Nov. 29 July 12-Oct. 11 Aug. 15 Dec. 5-20 Aug. 13 July 12-Oet. 25 Jan. 1-17 Nov. 16-Dec. 8 Nov. 16-Dec. 8 Nov. 1-15 Sept. 30-Dec. 29 Dec. 30-Jan. 19 Oct. 29-Nov. 4 Jan. 13-Feb. 16 Jan. 7-Feb. 2 Dec. 30-Jan. 5 Dec. 4 Jan. 22 do Jan. 18	3 3 7 7 1 2 2 1 1 222 1 1 703 120 4 2 1 1 40 41 60	190 33	Jan. 4-17, 1918: Cases, 1. Newcastle district. Outbreak. On main line Canadian Ry., 25 miles north of Moncoton. In 7 localities. In 5 localities.

Reports Received from Dec. 29, 1917, to Mar. 8, 1918—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Nova Scotia—		1	1	
Sydney	Feb. 3-9	1		
Ontario—	1_	İ	l	
Hamilton	Dec. 16-22	1		
Do	Jan. 13-19	2		
Sarnia	Dec. 9-15 Jan. 6-Feb. 23	1		i
Do Toronto	Feb. 10-16	25		
Windsor	Dec. 30-Jan. 5			
Prince Edward Island—	Dec. so van. o	•		
Charlottetown	Feb. 7-13	1	1	
Quebec—		_		·
Montreal	Dec. 16-Jan. 5	5	1	
Do	Jan. 6-12	1		•
China:	.	!	1	
Amoy	Oct. 22-Dec. 30			Present.
Antung	Dec. 3-23	13	2	
Do	Jan. 7-27	4	2	
Chungking	Nov. 11-Dec. 29			Do.
Dairen	Nov. 18-Dec. 22	3	1	
Do	Dec. 30-Jan. 12	2		Chinasa Fastana Bar
Harbin Do	May 14-June 30	20		Chinese Eastern Ry. Do.
	July 1-Dec. 2 Dec. 23-29	7		10.
Hongkong	Oat 99 Nov. 4	1	•••••	Do.
Manchuria Station	Oct. 28-Nov. 4 May 14-June 30	6		Do. Do.
Do	July 1-Dec. 2	3		Do.
Mukden	Nov. 11-24	•		Present.
Shanghai	Nov. 18-Dec. 23	41	91	Cases, foreign; deaths among na-
~	2101120 200120111		-	tives.
Do	Dec. 31-Jan. 20	20	68	Do,
Tientsin	Nov. 11-Dec. 22	13		
Do	Nov. 11-Dec. 22 Dec. 30-Jan. 19	5		
Cuba:				
Habana	Jan. 7	1		Nov. 8, 1917; 1 case from Coruna;
	_			Dec. 5, 1917, 1 case
Marianao	Jan. 8	1	[6 miles distant from Habana.
EcuadorGuayaquil				Sept. 1-Nov. 30, 1917; Cases, 26;
Guayaquu	Sept. 1-30	. 8		deaths, 2.
Ďo Do	Oct. 1-31	14	1	
	Nov. 1-30	4	1	•
Egypt: Alexandria	Nov. 12-18	1	1	` ·
Do	Jan. 8-14	3		
Cairo	July 23-Nov. 12-18	6	1	
France:	0 442 20 210 112 20	•	- 1	the state of the s
Lyon	Nov. 18-Dec. 16	6	. 3	
Do	Jan. 7-20	5		
ndia:		_		•
Bombay	Oct. 21-Dec. 1	16	4	
Karachi	Nov. 18-24		1	Nov. 11-17, 1907: 10 cases with 4
Madras	Nov. 18-24 Oct. 31-Dec. 8 Oct. 28-Nov. 24	9	3	deaths; imported on s. s. Me-
Rangoon	Oct. 28-Nov. 24	4	1	nesa from Basreh.
ndo-China:				Comt 1 Oct 24 1017: Come
Provinces	Camt 1 Oat 21	•••••		Sept. 1-Oct. 31, 1917: Cases,
Anam	Sept. 1-Oct. 31	103	. 15	345; deaths, 98.
CambodiaCochin-China	do	10 222	3 76	
Saigon	Oct. 20-Dec. 30	120	26	
Laos	Oct. 1-31	120	20	
Tonkin	Sept. 1-Oct. 31	ĝ	4	
taly:	Sept. 1 Set. 01	۰	*	
Castellamare	Dec. 10	2		Among refugees.
Florence	Dec. 1-15	17	4	- 0 0
Leghorn	Jan. 7–27 Jan. 3–19	17	5	
Messina	Jan. 3-19	1		
Milan				Oct. 1-Nov. 30, 1917: Cases, 17.
Naples	To Dec. 10	2		Among refugees.
Turin	Oct. 29-Dec. 9	123	. 120	-
apan:			_ 1	
Nagasaki	Jan. 14-27	3	1	Tiling of Malman (Barrers)
Taihoku	Dec. 15-21	1		Island of Taiwan (Formosa).
Do	Jan. 8-14	1	• • • • • • • • • • •	Do.
Yokohama	Jan. 17-23	2		

Reports Received from Dec. 29, 1917, to Mar. 8, 1918—Continued.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java	Oct. 7-Dec. 9	25		
Mid-Java	Oct. 10-Nov. 21	55		Oct. 10-Dec. 12, 1917: Cases, 63;
Samarang West Java	Dec. 6-12	1	1	death, 1. Oet. 19-Dec. 20, 1917: Cases, 217;
Batavia	Nov. 2-8	i		deaths, 33.
Mexico:		1 -		1 2000000
Aguascalientes	Feb. 4-10		. 1	
Mazatlan Do	Dec. 5-11	4	. 1	
Mexico City	Jan. 29-Feb. 12 Nov. 11-Dec. 29	16		•[
D0	Dec. 30-Feb. 2	30		
Piedras Negras	Jan. 11	200		
vera Cruz	Jan. 20-Feb. 9	4	3	
Newfoundland: St. Johns	Dog C Top 4	29	1	
_ Do	Dec. 8–Jan. 4 Jan. 5–Feb. 15	25		1
Trepassey	Jan. 4	l		Outbreak with 11 cases reported.
Philippine Islands:			1	
Manila	Oct. 28-Dec. 8	5		
Do Porto Rico:	Jan. 13-19	3		
San Juan	Jan. 28-Feb. 3	1		Varioloid.
Portugal:	van. 20-1 co. o	•		vanoisia.
Lisbon	Nov. 4-Dec. 15	2		
Do	Dec. 30-Jan. 19	2		`
Portuguese East Africa:	Aug. 1-Nov. 30		9	
Lourenço Marques Russia:	Aug. 1-Nov. 50		9	
Moscow	Aug. 26-Oct. 6	22	2	
Petrograd	Aug. 26-Oct. 6 Aug. 31-Nov. 18	76	3	
Siam:	35 07 Dec 4	_		
Bangkok Spain:	Nov. 25-Dec. 1	1	1	
Coruna	Dec. 2-15		4	
Madrid				Jan. 1-Dec. 31, 1917: Deaths, 77.
Seville	Oct. 1-Dec. 30		66	
Straits Settlements:	Nov. 25-Dec. 1	1	,	
Singapore Tunisia:	Nov. 20-Dec. 1		1	
Tunis	Dec. 14-20		1	
Turkey in Asia:				D
Bagdad		• • • • • • • •	• • • • • • • • • •	Present in November, 1917.
Maracaibo	Dec. 2-8		1	
	TYPHUS	FEVE	₹.	
Almeia				
Algeria:	Nov. 1-Dec. 31	2	1	
Argentina:		_		
Rosario	Dec. 1-31		1	
Australia: South Australia		l		Nov 11-17, 1917: Cases, 1.
Brazil:		· · · · · · · · · · · · · · · · · · ·		Nov 11-11, 1911. Cases, 1.
Rio de Janeiro	Oct. 28-Dec. 1	7		
Canada:		- 1		
Ontario	D			
KingstonQuebec—	Dec. 2-8	3		
Montreal	Dec. 16-22.	2	1	
china:		- 1	i	
Antung	Dec. 3-30 Dec. 31-Jan. 27	13	1	
Do.	Dec. 31-Jan. 27	2	2	
Chosen (Formosa): Seoul.	Nov. 1-30.	1	!	
Egypt:		*		
Alexandria		57	15	
	Nov. 8-Dec. 28			
Do	Nov. 8-Dec. 28 Jan. 8-14	20	-71	
DoCairo	Jan. 8-14 July 23-Dec. 16	137	70	
DoCairoPort Said	Jan. 8-14			•
Do	Jan. 8-14 July 23-Dec. 16 July 30-Nov. 11	137	70	•
Do	Jan. 8-14 July 23-Dec. 16	137 5	70	•

Reports Received from Dec. 29, 1917, to Mar. 8, 1918—Continued.

TYPHUS FEVER-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.	
Greece:					
Saloniki	Nov. 11-Dec. 29		72		
Japan:	NT. 00 Dec 10				
Nagasaki	Nov. 26-Dec. 16 Jan. 7-27	5 3	5		
Do	Jan. 1-21				
Java: East Java		l	l	Oct. 15-Dec. 9, 1917: Cases, 24	
East Java				deaths, 3.	
Mid-Java		l	l	Oct. 10-Dec. 12, 1917: Cases, 54	
Samarang	Oct. 17-Dec. 5	15	2	deaths. 2.	
West Java			. .	Oct. 19-Dec. 20, 1917: Cases, 73	
Batavia	Oct. 19-Dec. 20	73	17	deaths, 15.	
dexico:		1	_		
Aguascalientes	Dec. 15		2		
_ Do	Jan. 21-Feb. 10		14		
Durango, State-	Feb. 11			T-131-	
Guanacevi	Nov. 11-Dec. 29		• • • • • • • • • •	Epidemic,	
Mexico City	Dec. 30-Feb. 2	4/0			
Do Portugal:	Dec. 30-Feb. 2	201	• • • • • • • • • • • •		
Lisbon	Feb. 21			Present.	
Oporto	do	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • •	Epidemic.	
Russia:			• • • • • • • • • • • • • • • • • • • •	- practine.	
Archangel	Sept. 1-14	7	2		
Moscow.	Aug. 26-Oct. 6	49	2		
Petrograd	Aug. 31-Nov. 18	32			
Do	Feb. 2			Present.	
Vladivostok	Oct. 29-Nov. 4	12	1		
weden:					
Goteborg	Nov. 18-24	1			
Switzerland:	Jan. 6-12		1		
Basel	Nov. 9-15	•••••	1		
Zurich	Jan. 13-19	2			
runisia:	Jan. 10-13				
Tunis	Nov. 30-Dec. 6		1		
urkev:	1.01.00 200.01111	•••••	-		
Albania					
Janina	Jan. 27			Epidemic.	
Inion of South Africa:				_	
Cape of Good Hope State	Sept. 10-Nov. 11	3, 469	701		

YELLOW FEVER.

EcuadorGuayaquilDo	Sept. 1–30	1	<u>1</u>	Sept. 1-Nov. 30, 1917 deaths, 3.	: Cases, 5;
Do Do Yaguachi	Nov. 1-30	2	2		
Honduras: Tegucigalpa Do	l .		1 1		