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No. 3

PREVENTION OF MALARIA.

The following summary regarding malaria and its prevention is taken from a report on malaria investigations in the island of Mauritius by Prof. Ronald Ross, of the University of Liverpool:

Facts regarding malarial fever.—In the light of modern knowledge it may be safely affirmed that malaria will not remain in a locality (1) unless the carrying agents (Anophelines) are numerous enough, (2) unless there is a sufficient number of infected persons to infect the carriers, and (3) if the insects are prevented from biting human beings.

Three groups of preventive measures may therefore be employed to reduce the disease, namely: (1) Anopheline reduction, (2) case

reduction, (3) isolation.

The precise details of the first method were first laid down in 1899 and have since been put into practice with great success in both the

Suez and Panama canal zones.

The second great antimalaria measure, that of case reduction, was originated in 1900 by Koch and Celli, who, feeling doubt as to the possibility of mosquito reduction, urged that the best way of dealing with malaria would be to leave the mosquitoes alone and to cure the human patients from whom the insects become infected. Thus, though mosquitoes would continue to abound, they would find no parasites to carry. By the use of this method Stephansort, in New Guinea, was cleared of malaria by Koch in a few months.

The third measure, isolation or protection from bites of mosquitoes, has been unconsciously in use for a long time, the ancient Romans being already familiar with mosquito nets, while in America wire gauze screens for windows and verandas have long been employed.

Relative value of these measures.—It is obvious that any of the above measures, if completely carried out, must result in the complete suppression of endemic malaria in any locality. On comparing them, however, the first consideration which must strike the practical sanitarian is the following: Isolation and case reduction require ready compliance on the part of the public; mosquito reduction does not. To use culicifuges and mosquito nets, to screen windows and verandas, to take quinine day after day, to force one's children to take it, and to submit to constant inspections require an endless amount of trouble on the part of the people, equal trouble on the

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part of the authorities, expense, and perhaps friction with the community. On the other hand, no one objects to the drainage of swamps and clearing of water courses, which can be done by the authorities without troubling anyone.

Next, case reduction guards against malaria only, but isolation and mosquito reduction protect against all mosquito-borne diseases.

Again, isolation gives only partial and temporary respite from mosquitoes; mosquito reduction, where thoroughly carried out, a much greater security.

Lastly, mosquito reduction has a great general sanitary advantage which is not conferred by the other measures. It practically compels the sanitary department to maintain a minute inspection of the area in its charge and becomes therefore a sort of general insurance

policy for good sanitation.

Theoretically, therefore, mosquito reduction has the advantage in every way. Practically, however, the preference for any of these measures must be determined by local conditions, as questions of cost and feasibility have to be considered. The following general law has been enunciated by Doctor Ross: The greater the density of population the greater the advantages of mosquito reduction. In rural areas mosquito reduction may not be nearly so advantageous. This measure is for the city, the town, and perhaps the village, not for the wilderness. For isolated houses, quinine, isolation, and treatment of small neighboring waters, if possible, are called for; larger works of drainage can be indulged in only by rich house owners, not by the authorities. Also in small towns and villages situated in the midst of large marshes or marshy forests, or flat, water-logged country, the cost of mosquito reduction may be too great.

General preventive measures.—The measures likely to do most good for the expenditure of money and labor involved are the following: (1) Measuring the amount of malaria in the locality affected. (2) Treatment of children in schools, and a certain amount of free distribution of quinine. (3) House protection. (4) Mosquito reduction where advisable (a) by minor works and (b) by major works. (5) A suitable permanent organization and an annual malaria

report.

(1) The ideal way to ascertain the amount of malaria in a locality would be to search for the parasites in the blood of every person in the place. But the parasites can not often be found even when present; too much time is taken by such an examination, and hence to estimate correctly the proportion of infected people throughout a large population would be a great and practically impossible task. blood examination should therefore be used only for small populations. For large ones there is, however, available a much easier though less rigid method, which consists in examining the people for enlargement of the spleen, so frequent in cases of malaria. This can be done literally in a few seconds for each person. In practice, also, the examinations are usually confined to children, say, under This is done for several reasons. Children are 16 years of age. easily accessible in schools, while men are generally out at work, and women often object to the examination. But the most important reason is that adults have in many cases become partially immune.

By taking a periodical spleen census of school children there can be determined: (1) The localities most affected by malaria; (2) the

effect of the preventive measures; (3) the children who require treatment. For this purpose a register of all children of 15 years or under with enlarged spleens should be kept at each school. register should contain the age, sex, and names of the parents of the children, with columns for noting whether the enlargement is small, medium, or great, and a column for remarks. An examination of all the children attending school should be made every quarter by a medical officer, for the purpose of selecting those with enlarged spleen and making the proper entries in the register. Twice a year the figures and data in this register should be collected and forwarded

to the health department.

(2) Treatment of children and free distribution of quinine.—The objects proposed are to improve the health of the individuals (especially children) and to prevent them from becoming a source of infection to others. Children are the principal homes of the parasites, and can be treated more methodically in schools than elsewhere. At each quarterly inspection the medical officer should indicate the children with enlarged spleen, who should be given quinine, and the dose for each. This would be regularly given to the children by the teacher until discontinued by order of the medical officer. The dosage and mode of administration of quinine should be left largely in the hands of each practitioner. It seems, however, preferable to use small and frequently repeated doses rather than occasional large ones.

(3) House protection.—This is suggested chiefly as a prospective vicarious measure, its object being to exclude mosquitoes in localities where, owing to large marshes or much forest, they can not easily be reduced. The aim to be attained would therefore be the design of a type of a house which will exclude mosquitoes, and could be adopted by the community, and failing in this a cheap method to protect the

houses by wire or muslin netting could be devised.

(4) Mosquito reduction.—The measure is advised, as a rule, only for densely populated areas. The works required may be divided into two classes, minor and major works. Minor works are those which can be continuously carried out without the special services of an engineer, such as the clearing of water channels and drains, release of surface pools, filling of holes, removal of house breeding waters, cutting of underwood, removal of grass, weeds, etc., from the margin of ponds and streams, etc. Major works are those which require to be designed by an engineer, such as the drainage of swamps. canalization of streams, etc.

(5) Annual report.—Here should be given the details of the work done during the year with the cost and the results obtained, and also

figures for previous years for comparison.

UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

PLAGUE-PREVENTION WORK.

Passed Assistant Surgeon McCoy reports:

SAN FRANCISCO, CAL.

Last case of human plague sickened January 30, 1908. Last plague-infected rat was trapped October 23, 1908. Total number of

plague-infected rats found to date, 398.
Week ended January 8, 1910. Premises inspected, 988. Houses destroyed, 8. Buildings condemned, 6. Nuisances abated, 167. Poisons placed, 8,270. Rats trapped, 1,949. Rats found dead, 16. Rats identified, 1,965, as follows: Mus norvegicus, 1,368; Mus rattus, 99; Mus musculus, 424; Mus alexandrimus, 74. Rats examined bacteriologically, 1,419. No plague-infected rats were found.

OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last plague-

infected rodent was found December 1, 1908.

Week ended January 1, 1910. Rats found dead, 11. Rats trapped, 548. Rats identified, 558, as follows: Mus norvegicus, 492; Mus musculus, 66. Rats examined bacteriologically, 492. No plagueinfected rat found.

Week ended January 8. Rats found dead, 13. Rats trapped, 645. Rats identified, 658, as follows: Mus norvegicus, 572; Mus rattus, 1; Mus musculus, 85. Rats examined bacteriologically, 573. No plague-infected rat found.

Passed Assistant Surgeon Glover reports:

SEATTLE, WASH.

No case of human plague since October 30, 1907. The last plagueinfected rat was found September 26, 1908. Total plague-infected rats found to date, 21.

Assistant Surgeon Chapin reports, January 7, through Passed

Assistant Surgeon Glover:

Work resumed December 15, 1909. Total number of rats received from December 15 to 31, 2,342. Rats necropsied, 2,100. No plague-infected rat was found.

During the time the laboratory was building, from August 25 to December 15, 1909, 22,344 rats were received and destroyed without

examination. 64

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended January 21, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Montgomery	Jan. 2–8	61		
Oakland	Dec. 26-Jan. 1	1		
Kansas: Clay County	Nov. 1-30	1		
Clay County	Nov. 1-30	1		
Cowley County	Nov. 1-30	3		
Decatur County	Nov. 1–30 Nov. 1–30	2		
Graham County	Nov. 1-30	20		
Lane County Montgomery County	Nov. 1-30 Nov. 1-30 Nov. 1-30 Nov. 1-30	6		
Norton County	Nov. 1-30	30		
Reno County	Nov. 1-30	16		
Scott County	Nov. 1-30	2		
Shawnee County— Topeka	Nov. 1-20	1		
Sheridan County	Nov. 1-30 Nov. 1-30	5		
Sumner County	Nov. 1-30	ğ		
Wabaunsee County	Nov. 1-30	3		
Wilson County Wyandotte County—	Nov. 1-30	2		
W yandotte County— Kansas City	Dec. 26-Jan. 1	8		
Kentucky:	Dec. 20-Jan. 1	•	•••••	
Paducah	Jan. 5-11	1		
ouisiana:				
New Orleans	Jan. 2-8	3		
Maryland: Dorchester County	Dec. 1-31	1		
finnesota:	Dec. 1-31	1	•••••	
Beltrami County	Dec. 21-27	1		
Benton County	Dec. 14–20 Dec. 21–27	7		
Blue Earth County	Dec. 21-27	1		
Carver County	Dec. 7-Jan. 3	4		
Goodhue County	Dec. 28-Jan. 3 Dec. 28-Jan. 3 Dec. 14-20	5	•••••	
Hennepin County	Dec. 14-20	5 1		
Kandiyohi County	Dec. 7-13	1		
Kandiyohi County Mower County Ottertail County	Dec. 14-20. Dec. 7-13. Dec. 28-Jan. 3. Dec. 21-27. Dec. 7-13. Dec. 7-13. Dec. 7-13. Dec. 7-27. Dec. 7-27.	1		
Ottertail County	Dec. 21-27	2	•••••	
Polk County	Dec. 7-13	1 1		
Renville County	Dec. 7-13	î		
Rock County	Dec. 7-27	13		
Roseau County	Dec. 7-Jan. 3	12		
St. Louis County	Dec. 7-27	3	•••••	
Todd County	Dec. 7-13 Dec. 28-Jan. 3	4		
Wabasha County	Dec. 7-13	î		
watonwan County	Dec. 28-Jan. 3 Dec. 7-Jan. 3	1		
Wright County	Dec. 7-Jan. 3	14	• • • • • • • • • • • • • • • • • • • •	•
lississippi:	T 0.0	ا م	!	
Biloxi. Holly Springs. Natchez.	Jan. 2-8	2 2	•••••	
Natchez	Jan. 2-8.	10	••••••	
lissouri:		10	••••	
Kansas City	Jan. 2-8	4		
ebraska:	- · · ·	_		
South Omaha	Dec. 5-11	27	••••••	
orth Carolina	Nov. 1-30	21	•••••	
Catawba County	Oct. 1-31 Oct. 1-31 Oct. 1-31	2		
Catawba County Chowan County Currituck County	Oct. 1-31	1		
Currituck County	Oct. 1-31	2 .		4
Foresth County	Oct. 1-31	4 .	•••••	
Davidson County Forsyth County Franklin County	Oct. 1-31 Oct. 1-31	15	•••••	
Jones County	Oct. 1-31	3		
Robeson County	Oct 1-31	1 .		
Surry County	Oct. 1-31 Oct. 1-31	1 .		
Union County	Oct. 1-31	2 .		
Yadkin Countyklahoma:	Oct. 1-31	1 .		
	Dec. 1-31	7 .		
regon:		1		
Portland	Nov. 1-30	2 .		
ennessee:	Ton O O	ام	1	
Chattanooga	Jan. 2–8 Jan. 2–8	2 .	•••••	
Knoxville				

SMALLPOX IN THE UNITED STATES-Continued.

Reports Received During Week Ended January 21, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas: Fort Worth. San Antonio. Washington: Spokane.	Dec. 1-31	3		

Reports Received from January 1 to January 14, 1910.

For reports received from June 25, 1909, to December 31, 1909, see Public Health Reports for December 31, 1909. In accordance with custom the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama: Montgomery	Dec. 19–31	47		
Total for State		47		- :
California: Sacramento		2 4		
Total for State		6		
Colorado: Boulder Fruita District		1 3		
Total for State		4		
District of Columbia	Dec. 19-Jan. 1	1		
Total for District		1		
llinois: Chicago	Dec. 19-25	2		
Total for State		2		
ndiana: Flora Indianapolis South Bend	Dec. 12-18	3 1 1		
Total for State		5	<u></u>	
wa: Cedar Rapids Sioux City Total for State	Dec. 1-31 Dec. 1-31	7 2 9		
	•••••			
ansas: Montgomery County— Independence Wyandotte County—		17		
Kansas City	Dec. 19-25	1		
Total for State		18		
entucky: Hartford Lexington	Dec. 12-18 Dec. 12-18	2		
Total for State		3		
ouisiana: New Orleans	Dec. 26-Jan. 1	6		
Total for State		6		
aryland: Baltimore	Dec. 26-Jan. 1	1		
Total for State		1		

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from January 1 to January 14, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
dichigan:				
Alcona County	Nov. 1-30 Nov. 1-30	12		
Antrim County	Nov. 1-30	11		
Arenac County	Nov. 1-30	66		
Rev County	Nov. 1-30	4		
Bay City Emmet County	Dec. 5-11 Nov. 1-30	15		
Emmet County	Nov. 1-30	2		
Genesee County	Nov. 1-30	60		
Gladwin County	Nov. 1-30	1		
Gratiot County	Nov. 1-30 Nov. 1-30	Ī		
Houghton County	Nov. 1-30	11		
Ionia County	Nov. 1-30	23		
Lapeer County	Nov. 1-30	7		
Livingston County	Nov. 1-30 Nov. 1-30	7		
Marquette County	Nov. 1-30	i		
Mason County	Nov. 1-30	l ī	i	
Montcalm County	Nov. 1-30	3	1	
Ontonagon County	Nov 1-30	2		
Sanilac County	Nov. 1-30 Nov. 1-30	2		
Wayne County—	1107. 1-30	_		
	Dec. 26-Jan. 1	1 1	1	
Detroit	Dec. 20-Jan. 1			
M - 4 - 1 6 04 - 4 -		005		
Total for State		225		
lississippi:		_	1 1	
Natchez	Dec. 26-Jan. 1	7		
Claibourne County—		1	1	
Port Gibson	Dec. 19-25	1		
Total for State		8		
lissouri:		ŀ		
St. Louis	Dec. 26-Jan. 1	1		
Dec 20020111111111111111111111111111111111	200. 20 042. 2			
Total for State		1		
Total for Blace				
Iontana:				
	Nov. 1_20	1		
Dawson County	Nov. 1-30 Oct. 1-Nov. 30	6		
Flathead County	No. 1-Nov. 30			
Jenerson County	Nov. 1–30. Oct. 1–Nov. 30. Oct. 1–Nov. 30. Nov. 1–30.	1		
Lewis and Clark County	Oct. 1-Nov. 30	3		
Missoula County	Oct. 1-Nov. 30	22		
Park County	Nov. 1-30	1		
Park County	Nov. 1-30	1		
Ravalli County	Nov. 1–30	2		
Silver Bow County	Nov. 1–30	15		
Butte	Dec. 19-31	14		
		i		
Total for State		66	l	
		-		
ew York, generalLockport	Sept. 1-Oct. 31		1	
Lockport	Dec. 5-11	1		
Docaport	200.0 22			
Total for State		7	1 1	
Total for Busic	• • • • • • • • • • • • • • • • • • • •			
orth Carolina				
	Dec 26 Ion 1	1	i i	
Greensboro	Dec. 26-Jan. 1	1		
	Dec. 26-Jan. 1 Dec. 19-Jan. 1	1 7		
GreensboroCharlotte	Dec. 26–Jan. 1 Dec. 19–Jan. 1	7		
Greensboro	Dec. 26–Jan. 1 Dec. 19–Jan. 1	1 7 8		
Greensboro	Dec. 26-Jan. 1 Dec. 19-Jan. 1	7		
Greensboro		8		·
Greensboro		7		
Greensboro Charlotte Total for Stateorth Dakota: Bottineau County		8		
Greensboro		8		
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Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State hio: Cleveland	Oct. 1-31	7 8 1 1		
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Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State hio: Cleveland	Oct. 1-31	7 8 1 1		
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Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State Total for State Cleveland	Oct. 1-31	7 8 1 1		·
Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State hio: Cleveland Stryker Total for State	Oct. 1-31	1 1 1 1		
Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State hio: Cleveland Stryker Total for State ennessee:	Oct. 1-31	1 1 1 1 1 2		·
Charlotte	Oct. 1-31	1 1 1 2 2		
Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State Cleveland Stryker Total for State ennessee: Chattanooga Memphis.	Dec. 19-26	1 1 1 1 2 2 20		
Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State hio: Cleveland Stryker Total for State ennessee: Chattanooga Memphis Dekalb County	Dec. 19-26 Dec. 19-25 Dec. 26-Jan. 1 Nov. 1-30 Dec. 12-25	1 1 1 2 2 20 7		
Greensboro Charlotte Total for State orth Dakota: Bottineau County Total for State nio: Cleveland Stryker Total for State onnessee: Chattanooga Memphis Dekalb County	Dec. 19-26	1 1 1 1 2 2 20		
Greensboro Charlotte Total for State orth Dakota: Bottineau County. Total for State nio: Cleveland Stryker Total for State ennessee: Chattanooga Memphis. Dekalb County.	Dec. 19-26 Dec. 19-25 Dec. 26-Jan. 1 Nov. 1-30 Dec. 12-25	1 1 1 2 2 20 7		

SMALLPOX IN THE UNITED STATES—Continued. Reports Received from January 1 to January 14, 1910.

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MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.

[For smallpox see special tables.]

Cities										•						
Cities									Case	es an	d de	aths	•			
Altoona, Pa. Jan. 8 50, 814 13 1 2 1	Cities.		population	deaths from all			ph	oid					Mes	sles.	ir	ıg Î
Ashtabula.				causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Baltimore, Mddo 576,023		Jan. 8	50,814	13	.				1		2	1	 			
Bayonne, N. J										}						• • • •
Beiver Falls, Pado 10,341	Baltimore, Md			251			4	2	18	3						3
Biloxi, Miss. Jan. 1	Bayonne, N. J				3	1			3	••••	6	2			1	
Binghamton, N. Y	Bilovi Wice		10,341				••••	••••					10		• • • • •	••••
Do. Jan. 1 8 49,553 33 1 3 3 6 4 1 1 1 1 1 1 1 1 1			45 855						ļ				5			••••
Birmingham, Ala. Jan. 8	Do Do		30,000		•		••••				-					
Boston, Mass			49,553		i	3			6		4	i				
Boulder, Colo. Jan. 1	Boston, Mass					23	7	1					106	1	5	
Bridgeport, Conn.	Boulder, Colo					2		١	4		1	١				
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Danville, Ill. Jan. 8 27,387 8 1 1 1 1 1 1 1 1 Junkirk, N. Y do 18,061 4 1 1 3 1 2	Covington Ky		100, 040		20			-		••••		• • • •	31	- 1	•	••••
Dunkirk, N. Y	Danville III		27 387		;		-			••••		••••	· i			••••
	Dunkirk, N. Y.											i				
	Elmira, N. Y.	Jan. 1	35, 765		; - ;	<u>-</u> .i	i		2		5		ī			••••

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the $United\ States-$ Continued.

				Cases and deaths.											
Cities.	Week ended—	Estimated population 1909.	Total deaths from all causes.	Tu	ber- osis.	ph	y- oid ver.	Sca	rlet rer.	Di	ph- ria.	Mea	sles.	Who in cou	ng 🖢
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Manitowoc, Wis. Marinette, Wis. Mariboro, Mass. Massillon, Ohio. MoKeesport, Pa. Do. Do. Do. Medford, Mass. Melrose, Mass. Melrose, Mass. Mobile, Ala. Do. Moline, Ill. Morristown, N. J. Do. Mount Vernon, N. Y.	Jan. 8 Jan. 1 Jan. 8do Dec. 25 Jan. 8do Dec. 25 Jan. 8do Dec. 18 Jan. 1 Jan. 8 Jan. 1 Jan. 8 Jan. 2 Jan. 8do Jan. 1 Jan. 8	22, 911 66, 948 32, 931 106, 481 21, 615 36, 964 105, 909 15, 522 63, 625 40, 798 253, 711 46, 520 15, 765 20, 110 19, 801 49, 962 20, 295 410, 305 103, 900 14, 682 14, 484 13, 610 47, 677 20, 836 15, 361 332, 495 45, 122 23, 081 18, 296 12, 849 27, 891 20, 995	33 30 24 11 7 32 6 3 3 3 3 3 12 23 15 14 7 9 10 31 17 10 48 3 23 3 12 4 7 10 10 11 11 12 12 13 13 14 14 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	200 8 1 2 2 1 4 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 1122 33 82224 111 155 66	1 1 2 2 7 1 8 2 2 9	1 1 2 3 3 1 1	1 1 2 2 2 1 1 1 1 5 2 2 3 1 1 1 5 2 3 3 1 2 2 3 3 1 1 1 5 2 3 3 1 2 3 3 1 1 1 1 5 2 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 2 2 1 3 1 9 5 7 1 11 1 1 2 5 2 1 2 2 1 2 2 1 5 9	1 2	1 13 2	1	1 1 2 3 3	
New Bedford, Mass.	Tan R	308, 669 83, 898 14, 832	53 1 36 3	1 15 9	3 17 1	5 5	1 1 1	7 81 14	4 2	2 61 1	3 1	34	4	4	i
New York, N. Y	Jan. 8	31,345 4,450,963 32,012 24,491	10 .	2	177	46 4	13	534 6 1	36	356	44	925 43	17	35	5

a Population 1900. No estimate 1909.

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

				Cases and deaths.											
Cities.	Week ended—	Estimated population 1909.	Total deaths from all		ber- osis.	ph	'y- loid ver.	Sca fer	arlet ver.	Di	ph- eria.	Mea	sles.	ir	oop g igh.
	<u> </u>		causes.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
North Adams, Mass. Northampton, Mass. Ottumwa, Iowa	Jan. 1	20,510 21,008 21,648	8 3 16	2	2	i		2 1							
Do	Jan. 8 do do	27,669 15,473	11 10 6 6		1 1 2		i	9 5		2 1 2		8 4			i
Philadelphia, Pa Plainfield, N. J Plymouth. Pa	do do	1,491,082 20,947 17,524	6	49 2 8	72 1	34	7	38 2 2	5	88 1 7 2	13	17 4 12 35	1		1
Portsmouth, N. H Do Portsmouth, Va	do Jan. 8 Jan. 4 Jan. 11	11,336 19,225	13 6					3 1		2 3 3 1		ĭ 		••••	
Pottstown, Pa Do Providence, R. I	Jan. 1 Jan. 8 Jan. 8	19,225 217,065	12 5 61	1 2	1 5	 1	i	2 21		2 1 7		53	····i		
Rock Island, Ill Do Do St. Louis, Mo	Dec. 25 Jan. 1 Jan. 8 Jan. 1	24,766 686,369	9 256	1 46	1 36	7	4	39	3	1 1 36	 4	12		23	••••
Do	Jan. 8 Jan. 1 Jan. 8 Jan. 1	67, 404 a 342, 782 24, 596	206 5 154	46 22	33	10 5 1	1 	34 1 15	4	33 2 	7 3	5 7	 1	12	• • • • • • • • • • • • • • • • • • •
San Jose, Cal Schenectady, N. Y Seattle, Wash	do Dec. 31 Jan. 8	24,596 73,037 480,671 75,375	5 16 56 25	2 6 2	1 1 7 2	12		 7 11	i	4 7 4	 1 3	94 7			• • • • • • • • • • • • • • • • • • •
Springfield, Ohio S. Bethlehem, Pa	do do	43,975 15,886 14,769	28 14 4 5	1	1 	···i		5 2		11 3 	1 1 1	1 1 1 10			
Tacoma, Wash	Jan. 1 do Jan. 8	40,919 437,714 30,926	12 21 24	2 1	1 1		1	2 1	1	2		2 2			••••
Titusville, Pa Trenton, N. J Utica, N. Y Vincennes, Ind	do	8, 397 92, 878 69, 458 11, 779	4 7 5	6	5 3 1	1		18 1	i	1 5 1	1 	12			
Waltham, Mass West Newton, Mass Weymouth, Mass Wheeling, W. Va	do do Dec. 25	28, 522 39, 419 11, 793 42, 799	6 2 7	i i		2	1	1 1 4		2 3 1 1	1	1	2		
Do	Jan. 1 do Jan. 8	39,612	16 17 15	3 2	2	3		3 1 1		2	1	1 1 1			· • • • • • • • • • • • • • • • • • • •
Wilkes-Barre, Pa Wilmington, Del Winona, Minn	do do do	64, 323 88, 980 20, 830 14, 520	32 27 6 2	6	4 2 1	1	i	9		3		9		18	
DoDo	Dec. 18 Dec. 25 Jan. 1	72, 200	18 27 27	13 4 5	3 2 2 1	1		4 9 9		3 7 6 6	1 1 1	1 1 1			
DoZanesville, Ohio	Jan. 8	25, 614	33 7	5	2	3				1	2				

a Estimated population 1906. No estimate 1909.

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

FLORIDA—Pensacola.—Month of December, 1909. Estimated population, 30,000. Total number of deaths 44, including tuberculosis 3, typhoid fever 1, whooping cough 1.

Illinois—Alton.—Month of December, 1909. Estimated population, 22,000. Total number of deaths 20, including tuberculosis 1. Cases reported: Diphtheria 2, scarlet fever 1.

Quincy.—Month of December, 1909. Estimated population, 43,000. Total number of deaths 41, including tuberculosis 7, typhoid fever, 2. Cases reported: Diphtheria 8, scarlet fever 1, typhoid fever 3.

Springfield.—Month of December, 1909. Estimated population, 60,000. Total number of deaths 64, including tuberculosis 6, typhoid fever 1. Cases reported: Diphtheria 8, scarlet fever 8, typhoid fever 1.

Iowa—Cedar Rapids.—Month of December, 1909. Estimated population, 35,000. Total number of deaths 32, including tuberculosis 5, typhoid fever 1. Cases reported: Diphtheria 2, scarlet fever 4, smallpox 7.

LOUISIANA—Shreveport.—Month of December, 1909. Estimated population, 30,000. Total number of deaths 67 (residents 42, non-residents 25), including diphtheria 1, tuberculosis 8.

MAINE—Portland.—Four weeks ended December 11, 1909. Population, 62,000. Total number of deaths 71, including diphtheria 3, tuberculosis 4. Cases reported: Diphtheria, 13, scarlet fever 4, typhoid fever 9.

Maryland.—Month of October, 1909. Population, 1,190,050. Total number of deaths 739, including diphtheria 9, measles 3, scarlet fever 1, tuberculosis 64, typhoid fever 49, whooping cough 9 Cases reported: Diphtheria 106, measles 120, scarlet fever 56, smallpox cases 3, typhoid fever 291. The cases of typhoid fever were distributed as follows: Patapsco River watershed (Baltimore County), 41 cases; Patuxent River watershed (3 counties), 8 cases; Potomac River watershed (6 counties), 83 cases; Herring Run watershed (Baltimore County), 5 cases.

MINNESOTA.—Month of October, 1909. Reports received by the state board of health from cities and towns having a population of 1,000 and over, from other parts of the State and from State institutions (aggregate population, 1,751,395), show a total of 1,626 deaths, including diphtheria 49, scarlet fever 7, tuberculosis 182, typhoid fever 56, whooping cough 14.

OREGON—Portland.—Month of October, 1909. Population, 255,000. Total number of deaths 148, including diphtheria 3, scarlet fever 1, tuberculosis 14, typhoid fever 6.

TEXAS.—Month of November, 1909. Population, 3,048,710. Total number of deaths 1,035, including diphtheria 23, smallpox 2, tuberculosis 153, typhoid fever 84.

Fort Worth.—Month of December, 1909. Estimated population, 60,000. Total number of deaths 143. Cases reported: Diphtheria 5, scarlet fever 4, smallpox 3, typhoid fever 6.

VIRGINIA—Petersburg.—Month of November, 1909. Estimated population, 30,000. Total number of deaths 47, including diphtheria 1, tuberculosis 5, typhoid fever 1.

Month of December, 1909. Total number of deaths 54, including tuberculosis 4, typhoid fever 2.

FOREIGN AND INSULAR.

CHINA.

AMOY-Examination of Emigrants.

Passed Assistant Surgeon Foster reports, December 6, 1909:

Week ended December 4. Original bill of health was granted to the British steamship *Taisang* with 63 members of crew and 208 steerage passengers for Manila. One passenger was rejected for favus. The crew and steerage passengers were bathed and their clothing was disinfected by steam. All on board were inspected at time of sailing. Vessel anchored in stream while in port. Manifests were viséed for 2,296 pieces of freight.

One death from smallpox occurred during the week in the inter-

national settlement of Kulangsu.

The special quarantine restrictions imposed March 22, 1909, upon vessels leaving Amoy for the Philippine Islands have been revoked by the chief quarantine officer for the Philippine Islands.

HONGKONG-Examination of Emigrants-Plague.

Acting Assistant Surgeon Hough reports, December 1 and 6, 1909: Weeks ended November 27 and December 4. Quarantine restrictions enforced by and against Hongkong remain as reported November 20.

Quarantinable disease.—Week ended November 27. Plague, 1 case; 1 death.

Aliens for Honolulu and Pacific coast ports.—Week ended November 27. Examined, 346; rejected, 53. Week ended December 4. Examined, 0; rejected, 0.

Aliens for Philippine Islands.—Week ended November 27. Examined, 29; rejected, 16. Week ended December 4. Examined, 10;

rejected, 7.

INSPECTION AND DISINFECTION OF VESSELS.

Week ended November 27.

Vessels granted bills of health				
Vessels granted bins of hearth	•••••	• • • • • • • • • •		· • • • • • • •
Total members of crews			• • • • • ·	. .
Total cabin passengers				
Total steerage passengers				
Members of crew bathed				
Steerage passengers bathed				
Pieces of baggage disinfected				
Steerage passengers bathedPieces of baggage disinfectedVessels disinfected to kill rats				
Crews' quarters disinfected:				
By formaldehyde				
By sulphur			<i></i> .	

Week ended December 4.

Vessels granted bills of health	10
Total members of crews.	964
Total cabin passengers	246
Total steerage passengers	582
	778
Steerage passengers hathed	460
Pieces of baggage disinfected	238
Vessels disinfected to kill rats	3
Crews' quarters disinfected:	
By formaldehyde	5
By formaldehyde. By sulphur.	3

Summary of plague.—From January 1, 1909, to date there have been 135 cases of plague, with 124 deaths. From August 18 to November 22 no plague was reported in Hongkong.

CUBA.

CIENFUEGOS-Inspection of Vessels.

Acting Assistant Surgeon Suarez reports, December 25:

Week ended December 25.

Vessel inspected	1
Bill of health issued	1
Members of crew of outgoing vessel inspected	26

No quarantinable disease reported.

HABANA-Inspection of Vessels.

Acting Assistant Surgeon Villoldo reports, January 11:

Week ended January 8.

Bills of health issued	23
Vessels inspected	19
Members of crews of outgoing vessels inspected	1, 290
Members of crews of outgoing vessels inspected	1, 112
Certificates of inspection of hides issued	-,
	•

The report of the work of the mosquito brigade for the period from December 21 to 31 shows 26,795 houses inspected and 2,636 water deposits destroyed or petrolized.

The national sanitary department reports for the period from December 11 to 20, 321 cases of leprosy under treatment in the island.

MATANZAS-Inspection of Vessels.

Acting Assistant Surgeon Nuñez reports, January 11:

Week ended January 8. Bills of health granted to 7 vessels clearing for United States ports. They carried 183 members of crews and no

passengers. No quarantinable disease was reported.

The investigation as to the existence of pellagra in this district has resulted negatively. Four cases were observed during the period of Spanish rule. Of these 3 occurred in Spaniards and 1 in a native of the Canary Islands.

SANTIAGO-Inspection of Vessels.

Acting Assistant Surgeon Wilson reports, January 5:

Week ended January 1. Bills of health issued to 8 vessels bound for the United States. No quarantinable disease reported. The sanitary department reports that 2,290 houses were inspected.

HAWAII.

HONOLULU-Plague-prevention Work.

Chief Quarantine Officer Hobdy reports, December 27, 1909:

The last case of human plague at Honolulu occurred July 17, 1907. The last plague-infected rat was found at Aiea, 9 miles from Honolulu, August 22, 1907.

Week	ended	December	25.	1909.
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, , , , , , , , , , , , , , , , , , , ,	
Total rats taken	452
Trapped	
Found dead.	101
Shot from trees	21
Examined bacteriologically	317
Plague rats	0
Classification of rats trapped:	
Mus alexandrinus	39
Mus musculus	199
Mus norvegicus	48
Mus rattus	145
Classification of rats shot from trees:	
Mus rattus	19
Average number of traps set daily	1, 294
	, .

Doctor Hobdy further reports, December 17, as follows relative to the reported case of plague noted in the Public Health Reports of August 6, 1909, as having arrived at Honolulu on the steamship

Korea, July 20, 1909:

Regarding the case of suspected plague removed from the steam-ship *Korea* on July 20, 1909, I have to state that suspicious organisms were discovered in the case in question when on shipboard. They could never be demonstrated after that, however, either by microscope or by animal inoculations; cultures also were negative. The patient was seriously ill, however, and could not be discharged from the hospital till October 22, 1909. In my opinion, therefore, this was not a case of plague.

HILO.

Last case human plague occurred at Papeekeo, Hilo, October 4, 1909. Last plague-infected rat was found December 6, 1909.

INDIA.

CALCUTTA-Cholera and Plague.

Acting Assistant Surgeon Allan reports, December 16:

Week ended December 4. At Calcutta there were 19 deaths from cholera and 5 from plague; in all Bengal, 159 cases of plague with 115 deaths; in all India, 5,042 cases of plague with 4,012 deaths.

Week ended December 11. Bill of health issued to the steamship *Imkenturm* for Philadelphia and New York. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and effects of Asiatics disinfected.

JAPAN.

KOBE-Examination of Emigrants-Plague.

Acting Assistant Surgeon Knight reports, December 15, 1909: Week ended December 11. Supplemental bills of health granted to 3 steamships and original bill of health granted to 1 steamship. There were inspected 464 members of crews and 466 steerage passengers, and 68 members of crews and 12 steerage passengers were bathed; their effects were disinfected by steam. The number of pieces of baggage steamed was 233 and bedding 24. Manifests were viséed for 50,560 pieces of freight, amounting to 4,544 tons. Thirty-five cases of human hair, 25 bales of feathers, and 6 cases of personal effects were disinfected with formalin. One vessel was fumigated with sulphur to destroy vermin, and the forecastle washed down with antiseptic solution.

Emigrants examined.—Per steamship Korea for Honolulu, passed 11, recommended for rejection 37; for San Francisco, passed 1, rejected 6. The emigrants were 7 days in quarantine detention at

Ono before embarkation.

Plague.—The official returns of infectious diseases for the week show 6 cases of plague with 4 deaths in Kobe.

JAVA.

BATAVIA-Cholera.

Consul Rairden reports, November 20, 1909:

Palembang, island of Sumatra, is now free from cholera, and cholera conditions in Batavia are improved.

MARTINIQUE.

Mosquito destruction.

From the Archives Thérapeutique et d'Hygiène Coloniales, Decem-

ber, 1909, quoted in the Bulletin Sanitaire of Algeria:

A permanent service of prophylaxis against yellow fever by the destruction of mosquitoes has been established in the island of Martinique. A notable diminution in the number of house mosquitoes has been observed. No case of yellow fever has been reported in Fort de France or vicinity since March, 1909.

MEXICO.

Report from the Superior Board of Health of Mexico.

In compliance with articles 1 and 2 of the international sanitary convention held at Washington October 14, 1905, the acting president of the superior board of health of Mexico reports, January 10, that no case of yellow fever and no death from the said disease was registered in the Mexican Republic during the week ended January 8, 1910, and that the prophylactic measures against yellow fever reported September 28, 1908, continue to be carried out.

COATZACOALCOS-Inspection of Vessels.

Acting Assistant Surgeon Thompson reports, January 6:

Week ended January 5. Vessels inspected: January 1, steamship J. M. Guffey. January 3, steamship San Cristobal for Port Arthur via Veracruz.

RUSSIA.

ST. PETERSBURG-Plague in the Government of Astrakhan.

The following is received from Charge d'Affaires Schuyler, under

date of December 21, through the Department of State:

The ministry for foreign affairs states that the district of Kamych-Samar of the Kirghiz Steppes, Government of Astrakhan, is declared infected by plague.

LIBAU-Cholera, Plague, and Smallpox-Examination of Emigrants.

Acting Assistant Surgeon De Forest reports. December 27:

Cholera.—At Moscow from December 17 to 24 there were 106 cases of cholera, with 15 deaths.

Leprosy.—At Libau from December 1 to 15, 1 case.

Plague.—In Uralsk from December 5 to 24 there were 160 cases of plague, with 144 deaths. Fourteen cases are still present. In Astrakhan from December 5 to 24 there were 42 cases, with 38 deaths

Small pox.—At Libau from December 12 to 19 there was 1 case of

smallpox.

Examination of emigrants.—Week ended December 24. For steamship Estonia sailing from Libau December 28 for New York 577 emigrants have been examined. At time of examination all were in good physical condition and free from quarantinable diseases. One hundred pieces of baggage were disinfected.

No other vessel leaves Libau for New York until January 22, 1910.

VENEZUELA.

LA GUAIRA-Inspection of Vessels.

Acting Assistant Surgeon Kellogg reports, December 26, 1909: Week ended December 25. Vessels inspected: December 20, steamship Yucatan for Galveston, crew 41, passengers in transit 5, no passengers taken. December 21, steamship Citta di Milano for Colon, crew 84, passengers in transit 118, passengers taken 7. December 23, steamship *Prins Nederlanden* for New York, crew 40, passengers in transit 18, passengers taken 26. December 24, steamship Versailles for Colon, crew 148, passengers in transit 26, passengers

No quarantinable diseases reported at La Guaira, Maiquetia, or Puerto Cabello.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended January 21, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
dia:				
Bombay	Dec. 1-21		6	
Calcutta			63	
Rangoon			4	
va:	1			
Batavia	Nov. 21-Dec. 4	103	46	
ersia:	1			
Astara	Dec. 6-9	4	4	
am:		_		
Bangkok	Oct. 28-Nov. 27	3	3	

YELLOW FEVER.

The second secon				
Brazil: Para	Dec. 19–25	13	10	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued. Reports Received During Week Ended January 21, 1910.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Para	Dec. 19-25	1	1	
Pernambuco	Nov. 1-15	l . .	3	
Egypt:				
Alexandria	Dec. 9-15	1	1	
Port Said	Nov. 30-Dec. 22	<u>2</u>	Ī	
Provinces—	1101100 2001 22111	_	_	
Assiout	Dec. 17-22	7	3	ĺ
Beni Souef	Dec. 19-22	ġ	ž	İ
Menouf	Dec. 5-15	3	2	
Japan:				
Kobe	Dec. 5-18	11	10	
Russia:	200.0 200			
Astrakhan	Dec. 5-24	42	38	Revised report.
Uralsk, district	Dec. 5-24	160	144	Do.
Siam:	200.0 22	200	***	1 20.
Bangkok	Oct. 28-Nov. 27	5	5	
Furkey in Asia:				
Beirut	Nov. 29-Dec. 14	3		
Denut	140 v. 25-Dec. 14	9		

SMALLPOX.

Pernambuco	Algeria, general	Dec. 1-15	. 22		
China: Amoy		Nov. 1-15.		42	
Egypt, general Nov. 26-Dec. 9 112 28 Alexandria Dec. 3-9. 1 France: Paris. Dec. 19-25. 4 Germany, general Dec. 19-25. 5 Konigaberg Dec. 12-18. 1 Liverpool Dec. 17-23. 1 London Dec. 17-25. 1 London Dec. 18-25. 1 London Dec. 19-25. 1 Londia: Dec. 5-11. 1 Bombay Dec. 16-21. 8 Calcutta Dec. 5-11. 2 Rangoon Dec. 19-26. 2 Rangoon Dec. 19-27. 1 Libdu: Dec. 20-26. 2 Malta: Valetta. Dec. 21-18. 1 Mexico: Aguascalientes Dec. 26-Jan. 8. 2 Chihuahua Dec. 13-26. 8 Riga Dec. 13-18. 17 St. Petersburg Dec. 13-18. 17 St. Petersburg Dec. 13-18. 17 St. Petersburg Dec. 13-18. 15 St. Petersburg Dec. 13-18. 53 Warsaw Oct. 31-Nov. 6. 15 Spain: Aimeria Nov. 1-30. 5 Tripoli: Tripoli Dec. 12-25. 5 1		1.0		1 -	
Alexandria	Amov			1	
Alexandria	Egypt, general	Nov. 26-Dec. 9	. 112	28	1
France: Paris. Dec. 19-25. 4	Alexandria	Dec. 3-9	.	1	
Dec. 19-25. 5		Dec. 17-23	. 1		
Dec. 19-25	France:	1	1		
Continuation	Paris	Dec. 19–25	. 4		1
Great Britain:	Germany, general	Dec. 19-25			1
Liverpool	Konigsberg	Dec. 12-18	. 1	1	In vicinity.
London do	Great Britain:			l	
Greece: Athens	Liverpool	Dec. 19-25	. 1		
Athens. Dec. 5-11. 1 India: Bombay. Dec. 16-21. 8 Calcutta Dec. 5-11 2 Rangoon. do 3 Italy, general Dec. 20-26. 2 Malta: Valetta Dec. 12-18. 1 Mexico: Aguascalientes Dec. 26-Jan. 8 2 Chihuahua. Jan. 3-9 1 Portugal: Lisbon. Dec. 19-25. 12 Oct. 16, one death. Russia: Libau. Dec. 13-26. 8 Riga Dec. 13-18. 17 St. Petersburg Dec. 13-18. 17 St. Petersburg Dec. 12-18. 53 Warsaw Oct. 31-Nov. 6 51 Balin: Almeria Nov. 1-30 5 Tripoli: Tripoli Dec. 12-25. 5 1		do	. 4		<u> </u>
India:	Greece:		1		
Bombay	Athens	Dec. 5-11	·!	1	
Calcutta Dec. 5-11 2 2 3 3 3 3 3 3 3 3		5	i		
Rangoon	Bombay				
taly, general Dec. 20-26. 2					
Malta: Valetta Dec. 12-18. 1 Mexico: Dec. 26-Jan. 8 2 Chihushua. Jan. 3-9. 1 Portugal: Lisbon. Dec. 19-25. 12 Russia: Dec. 13-26. 8 Riga. Dec. 13-18. 17 St. Petersburg. Dec. 13-18. 17 St. Petersburg. Dec. 12-18. 53 12 Warsaw. Oct. 31-Nov. 6. 15 Bpain: Nov. 1-30. 5 Tripoli: Dec. 12-25. 5 1	Rangoon			3	
Valetta	italy, general	Dec. 20-26	2		
Mexico: Aguascalientes Dec. 26-Jan. 8 2 Chihuahua Jan. 3-9 1 Portugal: Lisbon. Dec. 19-25 12 Oct. 16, one death. Russia: Libau Dec. 13-26 8 8 Oct. 16, one death. Riga Dec. 13-26 8 17 Oct. 1-31, five deaths. St. Petersburg Dec. 12-18 53 12 Warsaw Oct. 31-Nov. 6 15 pain: Nov. 1-30 5 Tripoli: Dec. 12-25 5 Tripoli Dec. 12-25 5	maita:	D 10 10			
Agnascalientes Dec. 26-Jan. 8 2 Chihuahua Jan. 3-9 1 Portugal: Lisbon Dec. 19-25 12 Oct. 16, one death. Russia: Libau Dec. 13-26 8		Dec. 12-18	1		
Chihuahua		Dan 90 Jam 0			
Portugal: Lisbon. Dec. 19-25. 12 Oct. 16, one death. Russia: Libau. Dec. 13-26. 8 Oct. 16, one death. Riga. Dec. 13-26. 8 Oct. 1-31, five deaths. St. Petersburg. Dec. 12-18. 53 12 Oct. 1-31, five deaths. Spain: Oct. 31-Nov. 6. 15 5 Almeria. Nov. 1-30. 5 Tripoli: Dec. 12-25. 5 1				2	
Lisbon. Dec. 19-25. 12 Oct. 16, one death. Russia: Libau. Dec. 13-26. 8 Riga. Dec. 13-18. 17 St. Petersburg. Dec. 12-18. 53 Warsaw. Oct. 31-Nov. 6. 15 Almeria. Nov. 1-30. 5 Tripoli: Dec. 12-25. 5 1		Jan. 3-9	1		
Russia:	rortugai:	Dec 10.95	19		Oot 16 one death
Libau Dec. 13–26. 8 8 17 Oct. 1–31, five deaths. St. Petersburg. Dec. 12–18. 53 12 15 15 15 15 15 15 16 17 17 17 17 17 18 18 17 18 18 18 18 18 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 18 19 18 1		Dec. 19-20	12		Oct. 10, one death.
Riga Dec. 13-18. 17 Oct. 1-31, five deaths. St. Petersburg Dec. 12-18. 53 12 Warsaw Oct. 31-Nov. 6. 15 Spain: Nov. 1-30. 5 Fripoli: Dec. 12-25. 5 Tripoli Dec. 12-25. 5		Dag 12 26			
St. Petersburg Dec. 12-18 53 12 Warsaw Oct. 31-Nov. 6 15 Spain: Nov. 1-30 5 Pripoli: Dec. 12-25 5 1					Oat 1 21 five deaths
Warsaw Oct. 31-Nov. 6 15 ispain: Almeria Nov. 1-30 5 rirpoli: Dec. 12-25 5 1	Ct Datambung			19	Oct. 1-31, five deaths.
Spain:		Oct 31_Nov 6			
Almeria		Oct. 31-110V. 0		10	
Pripoli: Tripoli	Almaria	Nov 1_30		5	
Tripoli Dec. 12–25 5 1		1107.1-00		J	
	Trinoli	Dec 12-25	5	1	
		DW. 14-40	ا	• •	
Bagdad Nov. 28-Dec. 11 Present.	Rogdod	Nov 28-Dec 11	-	•	Present

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to January 14, 1910.

[For reports received from June 25, 1909, to December 31, 1909, see Public Health Reports for December 31, 1909. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CH	Λī	.E	R	Α

	СНО	LERA.		
Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
Batavia	Nov. 14-20	200	30	ĺ
Germany:		ļ		
Heydekrug	Nov. 19-Dec. 4			
Niederung	Nov. 16-22	. 1		
ind ia:		l		
Bombay	Nov. 24-30		. 5	
Calcutta	Nov. 14-20			1
Rangoon	Nov. 14-Dec. 4		9	
Persia:		1	1	
Astara	Dec. 1-5	31	18	
Philippine Islands:			1	
Manila	Nov. 7-20	19	20	
Provinces—		1		
Albay	Nov. 7-20	6	6	
Bataan	Nov. 7-20		73	
Bohol			14	
Bulacan			19	
Camarines		5	5	
Cavite	Nov. 7-20	61	48	i
Cebu	Nov. 7-20	207	156	Nov. 20, 1 case on s. s. Yaptice
Oriental Negros			5	
Pampanga	Nov. 7-20		5	
Rizaf		4	3	
Tarlac	Nov. 7-13	9	5	
tussia, general	Nov. 21-Dec. 11	231	105	
Baku, government	Nov. 21-Dec. 11	10	8	
Baku	Nov. 21-Dec. 11	23	15	
Don, territory	Nov. 28-Dec. 11	4	2	
Ekaterinislav, govern-				
ment	Nov. 21-Dec. 11	13	5	
Jaroslav, government.	Nov. 21-27		1	
Kostroma, government	Nov. 21-27	3	4	
Kovna, government	Nov. 21-27	8	3	
Kursk, government	Nov. 21-Dec. 11	6		
Moscow, government—		i		
Moscow	Nov. 29-Dec. 11	85	41	
Pekov, government	Nov. 21-27	10		
St. Petersburg, government.	Nov. 21-Dec. 11	14	10	
St. Petersburg	Nov. 21-Dec. 11	36	10	
Taurida, government	Nov. 21-Dec. 11		22	
Vitebsk, government urkey in Asia:	Nov. 21-27	2		
urkey in Asia:				
Trebizond	Nov. 28	a 1		On a vessel from Batum.
,	YELLOV	V FEVI	ER.	
· · · · · · · · · · · · · · · · · · ·				
razil:	N		_	
Manaos	Nov. 21-Dec. 11		3	
Para	Nov. 28-Dec. 18	7	7	
cuador:			_	•
Guayaquil	Dec. 1-15	12	5	•
eru:			i	
Callao	Nov. 2-Dec. 2	1	1	From s. s. Loa.
lexico:				
Yucatan	_		į	
Merida	Dec. 20-21	1	1	
Santa Cruz de Bravo	Dec. 20	1	1	
rinidad:	_	1		

PLAGUE.

1

1

Brazil:			
Bahia	Nov. 20-26	2	1
Para	Nov. 28-Dec. 18	10	7
Pernambuco	Oct. 15-31		3
Rio de Janeiro	Nov. 2-Dec. 5	9	2
China:			
Hongkong	Nov. 21-27	1	1

a From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, Dec. 15, 1909.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX-Continued. Reports Received from January 1 to January 14, 1910.

PLAGUE-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Egypt:				
Alexandria	Nov. 19-29		. 2	
Provinces—	Cont 20 Nov. 16	8	2	
AssioutBeherach	Sept. 29-Nov. 16 Dec. 8-14	î	2	
Menouf	Nov. 28-Dec. 5	14		1
india:		1	ĺ	
Bombay Presidency and Sind.	Nov. 7-Dec. 4	4, 432	3,011	
Madras Presidency	Nov. 7-Dec. 4	420	297	
Bengal	Nov. 7-Dec. 4	926	706	
United provinces	Nov. 7-Dec. 4	5,532 3,374	4, 942 2, 663	
Punjab Burma	Nov. 7-Dec. 4	114	2,003	
Central provinces, includ-	Nov. 7-Dec. 4 Nov. 7-Dec. 4 Nov. 7-Dec. 4 Nov. 7-Dec. 4	2, 586	2, 172	İ
ing Berar.	•		_,	
Coorg	Nov. 14-27	5	1	į
Mysore State	Nov. 7-Dec. 4	763	532	
Hyderabad State	Nov. 7-Dec. 4	47 516	42 382	
Central India	Nov. 7-Dec. 4 Nov. 7-Dec. 4	1,687	1, 473	
wara.	1101.1-200. 1	1,001	1, 110	
Kashmir	Nov. 7-Dec. 4	55	37	
Grand total		20, 457	16, 359	
ndo-China:	,	<u> </u>		
Saigon	Nov. 7-13	1		
apan:		1		1
Kobe	Nov. 28-Dec. 4	6	5	
araguay	Dec. 10	••••••	a 30	In the northern part.
eru: Provinces—				
Lambayeque	Oct. 1-18	27	9	
Lambayeque Lima	Oct. 22-Nov. 18	3	ì	
'11¢¢iQ.'	i	1		
Astrakhan, district Beiskulak Libau	Dec. 10-16	14	13	50 miles south of Beiskulak.
Beiskulak	Dec. 10-16	18		
Uralsk, district	Dec. 5-16	1	1 23	
1177077		1		
urbou.		1		
urbov.		1		
urkey: Alexandretta. Beirut.		2		
1177077	Dec. 1	2		
urkey: Alexandretta. Beirut.	Dec. 1	2 POX.	3	
urkey: Alexandretta Beirut lgeria: Algiers	Dec. 1	2 POX.		
urkey: Alexandretta Beirut lgeria: Algiers rgentina:	Dec. 1	2 POX.	1	
lgeria: Algiers rgentina: Buenos Aires	Dec. 1	2 POX.	3	
lgeria: Algiers. rgentina: Buenos Aires. Rahis. Bahis.	Dec. 1	2 POX.	1	
urkey: Alexandretta Beirut lgeria: Algiers gentina: Buenos Aires razil: Bahia. Pernambuco	Dec. 1	2 POX.	1 2	
urkey: Alexandretta Beirut lgeria: Algiers gentina: Buenos Aires razil: Bahia. Pernambuco	Dec. 1	2 POX.	1 2 12 32	
urkey: Alexandretta. Beirut. lgeria: Algiers. rgentina: Buenos Aires. razil: Bahia. Pernambuco. Rio de Janeiro. Sao Paulo.	Dec. 1	2 POX.	1 2 12	
lgeria: Alexandretta Beirut lgeria: Algiers rgentina: Buenos Aires razii: Bahia Pernambuco Rio de Janeiro Sao Paulo anada:	Dec. 1	2 POX.	1 2 12 32	
lgeria: Alexandretta. Beirut. Alexandretta. Beirut. Algers. rgentina: Buenos Aires. rszii: Bahia. Pernambuco. Rio de Janeiro. Sao Paulo. anada: Nova Scotia—	Dec. 1	2 POX.	1 2 12 32	
lgeria: Alexandretta. Beirut. lgeria: Alglers. reentina: Buenos Aires. rzatil: Bahia. Pernambuco. Rio de Janeiro. Sao Paulo. anada: Nova Scotia— Halifax hiie:	Dec. 1	2 POX.	1 2 12 32	
urkey: Alexandretta Beirut lgeria: Algiers Algiers rgentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax nile:	Dec. 1	2 POX.	1 2 12 32 2	Present.
urkey: Alexandretta Beirut Reirut Igeria: Algiers gentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo unada: Nova Scotia— Halifax tile: Quillota Valparaiso	Dec. 1	2 POX.	1 2 12 32 2	Present.
lgeria: Alexandretta Beirut lgeria: Algiers Algiers gentina: Buenos Aires rasil: Bahia Pernambuco Rio de Janeiro Sao Paulo unada: Nova Scotia— Halifax tile: Quillota Valparaiso unas:	Dec. 1	2 POX.	1 2 12 32 2	Do.
urkey: Alexandretta Beirut Beirut Algiers Algiers gentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo mada: Nova Scotia— Halifax tile: Quillota Valparaiso tina: Shanghai	Dec. 1	2 POX.	1 2 12 32 2	
urkey: Alexandretta Beirut Beirut Algeria: Algiers rgentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo mada: Nova Scotia— Halifax tile: Quillota Valparaiso ina: Shanghai ba: Habana	Dec. 1	2 POX.	1 2 12 32 2	Do. Among Chinese.
urkey: Alexandretta Beirut Beirut Alexandretta Beirut Algeria: Algiers gentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo unada: Nova Scotia— Halifax ilie: Quillota Valparaiso una: Shanghai ba: Habana rypt, general	Dec. 1	2 POX.	1 2 12 32 2	Do.
urkey: Alexandretta Beirut Algeria: Algiers Algiers rgentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax nile: Quillota Valparaiso nina: Shanghai tba: Habana gypt, general Alexandria	Dec. 1	2 POX. 18 11 2 2	1 2 12 32 2 2 2 42 15	Do. Among Chinese.
urkey: Alexandretta Beirut Beirut Algiers Algiers rgentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo Mada: Nova Scotia— Halifax tile: Quillota Valparaiso tina: Shanghai tba: Habana typt, general Alexandria Cairo	Dec. 1	2 POX. 18 11 2 2 1100	1 2 12 32 2 2 42	Do. Among Chinese.
lgeria: Alexandretta Beirut Alexandretta Beirut Algers repetina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax hile: Quillota Valparaiso hina: Shanghai uba: Habana gypt, generai Alexandria Cairo	Dec. 1	2 POX. 18 11 2 2 100 15 5	1 2 12 32 2 2 2 42 15	Do. Among Chinese.
lgeria: Alexandretta Beirut Alexandretta Beirut Algers repetina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax hile: Quillota Valparaiso hina: Shanghai uba: Habana gypt, generai Alexandria Cairo	Dec. 1	2 POX. 18 11 2 1 100 15 5 14 1	1 2 12 32 2 2 2 42 15	Do. Among Chinese.
lgeria: Alexandretta Beirut Alexandretta Beirut Alglers reentina: Buenos Aires razil: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax hile: Quillota Valparaiso hina: Shanghai uba: Habana gypt, generai Alexandria Cairo	Dec. 1	2 POX. 18 11 2 2 100 15 5	1 2 12 32 2 2 2 42 15	Do. Among Chinese.
urkey: Alexandretta Beirut Algeria: Alglers rgentina: Buenos Aires razdi: Bahia Pernambuco Rio de Janeiro Sao Paulo anada: Nova Scotia— Halifax nile: Quillota Valparaiso nina: Shanghai aba: Habana gypt, general Alexandria Cairo rance: Paris Pernany, general reat Britatin:	Dec. 1 Nov. 27-28. SMALLF Nov. 1-30. Oct. 1-31. Nov. 20-26. Oct. 16-30. Nov. 2-Dec. 5. Nov. 1-21. Dec. 19-25. Nov. 28-Dec. 4. Nov. 20. Nov. 1-28. Dec. 3-9. Nov. 5-25. Nov. 5-25. Nov. 26-Dec. 9. Dec. 5-18. Dec. 5-18.	2 POX. 18 11 2 1 100 15 5 14 4 4 .	1 2 12 32 2 2 2 42 15	Do. Among Chinese.
lgeria: Alexandretta Beirut Alexandretta Beirut Alexandretta Alexandretta Alexandretta Alexandretta Alexandretta Alexandretta Beirut Alexandreta Alexandreta Alexandreta Alexandreta Cairo ance: Paris Pernal Alexandreta Cairo ance: Paris Pernal Alexandreta Cairo ance: Paris Pernal London	Dec. 1	2 POX. 18 11 2 1 100 15 5 14 1	1 2 12 32 2 2 2 42 15	Do. Among Chinese.

a From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, Dec. 22, 1909.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from January 1 to January 14, 1910.

SMALLPOX-Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
THE STATE OF THE S	· · · · · ·		····	
reece:			į.	
Athens	Nov. 22-Dec. 4	!	. 7	
dia:	11011. 22 Dec. 1111		1	1
Bombay	Nov. 24-Dec. 14.			.
				ī
Calcutta	Nov. 14-20		1	†
Rangoon	Nov. 20-27		6	1
ndo-China:			1	1
Saigon	Dec. 7, 12		1	i
Sangon	Dec. 1-13			
aly, general	Nov. 29-Dec. 19	. 102		1
Genoa	Dec. 1-15	. 1	1	Į.
Naples			4	
exico:		-1		ı
	Dec 10.05	1		i
Aguascalientes	Dec. 12-25		3	!
Chihuahua			2	1
Mexico	Nov. 14-27	.1	l ii	i
Monterev				
	1101. 10-1			
etherlands:	1 50 50 40	1 _	Į	!
Rotterdam	Dec. 5-11	.: 7		1
rsia:	i	i	1	i
Hamadan	Nov. 15	i	!	Present.
Sultanabad				
	1404. 19			ال ا لال
ru:	1	!		
Callao	Dec. 6-12		' .	Do.
ullippine Islands:	Dec. 6-12			1
nilippine Islands: Manila	Nov. 14-20			
	1407. 14-20	. 2	• • • • • • • • •	
ortugal:				İ
Lisbon	Dec. 5-18	. 28	l	I
orto Rico, general			12	Received out of date.
ussia:		. 56	1-	var ou date.
	D 0 10			
Libau	Dec. 6-12			
Moscow			2	
Odessa			10	!
Riga				
Ct Datambuma	Nov 90 Dec 11			
St. Petersburg		. 82		
Warsaw	Oct. 24-30		10	
ain:	1	1 1		
Barcelona	Dec. 14-26	1 1	4	
	Non 1 20	• :		
Huelva	Nov. 1-30	-,	11	
ipoli:	i	!!!		
Tripoli	Nov. 14-Dec. 11	. 237	23	
ırkey in Asia:				
Bagdad	Nov. 21 27	1	1	I · .
Daguau	Nov. 21-27	• ! • • • • • • •		Up.
Smyrna	Nov. 5-Dec. 1	.[]	31	
ruguav:		1 1	1	
ontevideo	Oct 1-31	1	7 !	
4 VC 7 4 4 CV • • • • • • • • • • • • • • • • • •				

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

			Deaths from—											
Cities.	Week ended	ek Estimated d	Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Aberdeen. Aix la Chapelle Alexandria. Do Amoy Do Amsterdam Antwerp Asuncion, Paraguay	Dec. 31 Dec. 4 Nov. 25 Dec. 2 Nov. 27 Dec. 4 Dec. 25 Dec. 18 Nov. 27	181, 918 160, 531 391, 121 8, 000 567, 367 323, 921 75, 000	54 51 207 192 5 5 155 95	4 13 23 1 1 21 5				4 2		 2 2 	1 	1 5 6 1 1 1	1 2 4	1 2 1

MORTALITY—Continued. Weekly mortality table, foreign and insular cities—Continued.

Cities.		Estimated population.		Deaths from—										
	Week ended—		Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Barcelona	Dec. 26	591, 272	395	20 2				2		12	1	2		
Barmen	Nov. 27 Dec. 4	163, 100	36 41	2 2									i	1
Do Barranquilla	Dec. 18	163, 400 40, 000	21	. 1						i				
Basel	do	131,000	23	4				• • • •				ļ		
BataviaBelgrade	Nov. 27 Dec. 25	217,630 80,000	28	• • • •	••••	25		• • • •			···¡·	····		
Berlin	Dec. 4	2, 110, 211	585	69						3	19	14	4	3
Birmingham	Dec. 25	2, 110, 211 558, 336	170		6	···4	• • • • •	6		3	2	1		5
Bombay Do	Dec. 7 Dec. 14	977,822	588 556	43 47	8	i		6						···i
Bordeaux	Dec. 18	253,000	123	11										1
Bradford	Dec. 25	293, 983	81 79	7 6	• • • •	• • • •	• • • • ,				2 2		4	3
Bristol	do	235, 648 377, 642 562, 895	112	6										1
Brussels	Dec. 18		210	19			'			;.	2	5	2 2	1
Budapest	Dec. 11, Dec. 16	804, 200 704, 836	345	18	••••	••••	• • • •		7	1 2		19	2	
Calcutta	Nov. 27	704, 836 847, 796	558	42	5	23						ļ		
Do	Dec. 4 Dec. 11	280, 675	571 89	43 9	5	19			• • • •		···i		2	
Chihuahua	Jan. 2	27,000	14	2		: : : :								i
Christiania	Dec. 25	236,000	44	8							1	3		
Coburg	Dec. 11 Dec. 25	23, 536 19, 483	4 2	• • • •	• • • • •			• • • •	• • • •					
Cologne	Dec. 11	473, 091	144	16						1	4	7	3	1
Colombo	Nov. 27 Dec. 25	183,872	104 9	16	••••	• • • •	• • • •		• • • •	1		• • • •	• • • •	• • • •
Colon	Dec. 25 Dec. 11	16,000 450,000	99	14		••••					··i·	·i		
Copenhagen Dalny	do	38, 879	20 177							1				
Dublin Do	do Dec. 18	394, 525	177 158	25 21	• • • •	• • • •	••••	• • • •		1	1	····2	1	2
Do	Dec. 25		155	18						3	1			2 2
Dundee	do	169, 409	74	.8					!	;-	2	··i		
Edinburgh Do	Dec. 18 Dec. 25	355, 366 355, 366	117 111	13 15		• • • • •	::::			1	1	2	6	1
Erfurt	Dec. 11	109,031	27	3 7							ĩ	2		
Fiume	Dec. 18 Dec. 25	50, 811 56, 000	18 57	7 4					• • • •	••••	• • • •		1	• • • •
GeorgetownGhent	Dec. 18	164, 579	40	4										···i
Gothenburg	Dec. 18	162, 400 72, 300	31	8									5	1
Greenock	Dec. 25 Jan. 1	72,300 50,000	20 16	2 2				• • • •	• • • •	• • • •				1
Hamburg	Dec. 18	872, 252	264	23							5	11	2	
Havre	do	132, 430	64	13						2				• • • •
Hilo Kobe	do Dec. 11	3,500 380,717	187		4					4	3			
Konigsberg	do	240,000	86	5									10	<u>ż</u>
Leeds	Dec. 18 Dec. 25	484,012	133 130	10 15		,			• • • •	···2		2	3	z
Leipzig	Dec. 4	540,891	147	19							i	2	2	1
Do	Dec. 11	05 701	154	14 2						• • • •	1	3	4	
Leith Do	Dec. 18 Dec. 25	85,721	21 28	3					::::!					
Libau	Dec. 19	90,000								:-	1		;-	
Liege Lisbon	Dec. 18 Oct. 16	175, 968 406, 869	56 199	28		• • • •	••••	··i	••••	1 3	···i	ï	1 3	···i
Liverpool	Dec. 25	760, 357	258	13						2	5	2	1	5
London	do	760, 357 7, 429, 740	1,934	;.						13	8	17 2	21 2	39
Lubeck Lyons	Dec. 18 Dec. 4	91,541 472,114	27 188	1 34		• • • • • •				··i		1	, z	
Do	Dec. 11		166	34 22		,				4		3	ا. یا ا	
Madras	Dec. 3 Dec. 10	509, 346	334 371										1 1	• • • •
Do	Dec. 25	631, 533	207	21	::::			::::		i	3	···2	5	···i
Mannheim	Dec. 4	184,992	42	4				•						
Milan Monterey	Dec. 19 Dec. 26	900,000 100,000	10 64			• • • • •			į	8		2		• • • •
Do	Jan. 2	. 	54	2						1				
Montreal	Jan. 1	389, 837	154	7	'	:	'	!	i	13	1 1	1 1	i	3

. MORTALITY—Continued. Weekly mortality table, foreign and insular cities—Continued.

Cities.	!	Estimated population.			Deaths from—										
	Week ended—		Total deaths from all causes.	Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.	
Munich Nantes	Dec. 18 Dec. 26	566,000 161,908	178 67	32 8		ļ					1	2	1		
Newcastle-on-Tyne	Dec. 25	281, 584	87	0		1				1			• • • •		
Nuevo Laredo	Jan. 1	8.000	7	2						··i·					
Nuremberg	Dec. 4	316, 180	7i	10											
Palermo		335,000	138	10								1			
Do			131	3									1		
Do		0.770.004	177	. 6								;-	: 2		
Paris Penang		2,776,394 102,520	991 71	175 17							1	4	10	i	
Prague		233,649	119	15	• • • • •		• • • •					4	2	;•••	
Rangoon		252, 155	200	6	··i				• • • •		• • • •	-	-	, • •	
Ďo			179	5	3										
Rio de Janeiro		811,443	199	45	1					3			1		
St. John, N. B		40,711		6											
Santa Cruz de Teneriffe.		46,000	16	1					• • • •				3		
Sheffield Do	do Dec. 25	472,000	125	9					• • • • •		٠٠٠٠				
Singapore		271,060	123 207	25	• • • •		· · · ·		• • • •	;-	2				
Southampton		124,667	30	23					• • • • •		• • • • •	• • • •		•••	
South Shields		117,627	35	2						1					
Do	Dec. 25		31	6								1			
Stettin	Dec. 4	239,000	78	5	;	'		,		4		3			
stockholm	Dec. 11	339, 582	87	25									1		
l'arragona		20,400	6	1					• • • •		• • • •				
FriesteValencia		219,777	121						• • • •	••••			2	• • •	
Do		240,000	92 78	12					··i	1	• • • •	2.	• • • •		
Valetta		212,888	100	8		• • • •				•	• • • •	•	••••		
Victoria		35,000	5	ĭ											
Vienna	Dec. 18	2,085,888		103						3	3	7	2		
Vigo		40,000	15	2		'				. . i					
Warsaw		764,054	315	39		;		10	1	2	11	1	13		
West Hartlepool		66,750	18	ا چ											
Winnipeg Yokaichi	Jan. 1 Oct. 30	122,000 32,000	33 15	2					• • • • ,		• • • •				
Do	Nov. 6	32,000	6	3									• • • • •		
Do	Nov. 13		14												
Do			9	2											
Do	Nov. 27		11	2											
Do	Dec. 4		16	6						1]				
Do	Dec. 11		9									1		٠	
rokohama	Dec. 13	392,870	1						'	1		1	'		

MORTALITY-FOREIGN AND INSULAR-COUNTRIES AND CITIES (untabulated).

Algeria—Algiers.—Two weeks ended December 15, 1909. Estimated population, 155,000. Total number of deaths 143. No contagious diseases reported.

AZORES—St. Michaels.—Month of October, 1909. Population, 131,183. Total number of deaths 280, including tuberculosis 4, typhoid fever 8.

Brazil—Pernambuco.—Two weeks ended November 15, 1909. Estimated population, 210,000. Total number of deaths 341, including measles 5, plague 3, smallpox 42, tuberculosis 42.

Campinas, São Paulo, and Santos.—Two weeks ended November 21, 1909. Population, 300,000. Total number of deaths 480,

diphtheria 2, measles 9, scarlet fever 4, smallpox 2, tuberculosis 18, typhoid fever 12.

CANADA—Yukon Territory—Dawson.—Month of October, 1909. Population, 9.142. Total number of deaths 7, including tuberculosis 2.

Cuba—Matanzas.—Ten days ended December 20, 1909. Estimated population, 36,009. Total number of deaths 21, including tuberculosis 5.

Formosa.—Two weeks ended December 11, 1909. Estimated population, 3.108,723. Total number of deaths not reported. Two deaths from diphtheria and 7 from typhoid fever reported.

FRANCE—Saint Etienne.—Two weeks ended December 15, 1909. Estimated population, 150,000. Total number of deaths 127, including diphtheria 2, tuberculosis 22, typhoid fever 1.

GREAT BRITAIN.—Week ended December 18, 1909:

England and Wales.—The deaths registered in 76 great towns correspond to an annual rate of 15 per 1,000 of the population, which is estimated at 16,445,281.

Ireland.—The deaths registered in 21 principal town districts having an aggregate estimated population of 1,142,308 correspond to an annual rate of 21.7 per 1,000 of the population. The lowest rate was recorded at Queenstown, viz, 6.6, and the highest at Lisburn, 40.9, per 1,000 of the population.

Scotland.—The deaths registered in 8 principal towns having an aggregate population of 1,865,571 show a total of 700, including diphtheria 5, measles 46, scarlet fever 6, typhoid fever 3, whooping cough 9.

Russia—Riga.—Month of October, 1909. Estimated population, 353,000. Total number of deaths 536, including cholera 7, diphtheria 6, measles 3, scarlet fever 25, smallpox 5, tuberculosis 47, typhoid fever 12, typhus fever 4.

SIAM — Bangkok.—Month of November, 1909. Population, 600,000. Total number of deaths not reported. Three deaths from cholera and 5 from tuberculosis reported.

SOUTH AFRICA—Jahannesburg.—Two weeks ended November 27, 1909. Estimated population, 180,687. Total number of deaths 150, including measles 2, scarlet fever 4, tuberculosis 13, typhoid fever 5, whooping cough 1.

SPAIN—Cadiz.—Month of November, 1909. Estimated population, 69,382. Total number of deaths 164, including measles 1, tuberculosis 27, typhoid fever 2, whooping cough 13.

By authority of the Secretary of the Treasury:

WALTER WYMAN,
Surgeon-General,
United States Public Health and Marine-Hospital Service.