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1

NOTES ON EXPERIMENTAL MENINGITIS IN RABBITS

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During January, 1931, a study of the possibility of producing meningococcus meningitis in rabbits was undertaken. Recently Zdrodowski and Voronine (1) reported the production of such meningitis in 90 per cent of their rabbits, using a technique almost identical with our own.

We have obtained this condition with certainty in a smaller proportion of rabbits injected. The most recently isolated strains available were used. Newly isolated meningococci varied so in virulence that a preliminary titration for virulence was done in mice, after the method of Murray (2). A strain with a minimum fatal dose for mice over 200,000,000 microorganisms seldom produced symptoms in rabbits.

Under light ether anæsthesia, rabbits weighing 1.5 to 2 kg were given intracisternal injections of 0.2 cc containing usually ½ billion cocci suspended in Ringer's solution of pH 7 to 7.4. The suspensions were made from 18-hour growth on "EDB/v" agar or rabbit's blood agar.

According to the symptoms that developed after these injections, the 49 rabbits given young living cultures fall into 4 general groups:

(1) In 12 rabbits the symptoms resemble "forme (b)" of Zdrodowski and Voronine. The course of the disease was too rapid to follow easily. Rapid breathing and extreme prostration developed within a few hours after injection, and death followed in 12 to 18 hours, sometimes earlier.

(2) In 4 rabbits the course of the disease was characterized by dyspnea and marked prostration, followed by marked rigidity of the neck. Bending the animal's neck slightly was likely to cause it to cry out. The rabbits became very sensitive, and even a touch caused tetanic spasms or convulsions. The course of the disease was afebrile and was fatal in 2 to 4 days. This clinical picture resembles that described by Zdrodowski and Voronine as "forme (a)."

(3) This group of 7 rabbits showed slowly developing paralysis, usually beginning in the hind limbs. Respiratory difficulty was frequent. All these animals except one showed a definite fever

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 $(40.0^{\circ} \text{ to } 41.5^{\circ}\text{C.})$ on the second or third day after injection, usually coincidental with the onset of paralysis. In 5 rabbits paralysis was slight and recovery complete within 5 or 6 days after injection; in 2 paralysis involved practically the whole body and resulted in death. This group apparently corresponds to "forme (c)" of Zdrodowski and Voronine.

(4) Twenty-seven rabbits showed no definite symptoms. All except three showed fever of 40° to 41.5°C. on the second day. A few developed some stiffness but no definite paralysis.

All of the rabbits that died were carefully autopsied. Cerebrospinal fluid was withdrawn by cisternal puncture before the brain was exposed. The meninges were often adherent. Three or four showed an increased amount of cerebrospinal fluid.

Stained smears of the cisternal fluid and meningeal exudate showed single and paired Gram-negative cocci free and in leucocytes in 11 of the rapidly fatal group, in all of the group showing characteristic symptoms of meningitis, and in 1 of the progressive paralysis group.

Cultures of Gram-negative cocci resembling the meningococcus were obtained from six—five times from cisternal fluid, twice from meninges, and twice from the heart. Their identity with the meningococcus could not be proved by any of the means available, and definitely successful animal passage was not accomplished. These bacteriological findings are at variance with those of Zdrodowski and Voronine.

Histopathologic study was made of the brains of the 7 rabbits of group 1, 3 in group 2, and the 2 fatal cases of group 3.

Fibrinopurulent to purulent meningitis, generally more marked basally, in the cerebellopontine angles and around the mid-brain and thalamus, was the major significant histological finding. It was more marked in the animals showing spasticity and rigidity which came to autopsy 1 or 2 days after injection, and was replaced by round-cell infiltration, fibroblast proliferation, and encapsulating meningeal abscesses in 6 to 16 days, both in the spastic and paralytic groups.

Purulent infiltration of the sheaths of perforating vessels and of the margins of the brain substance, miliary intracerebral abscesses, meningeal and intracerebral hemorrhages, and ventricular exudates containing serum, blood, pus, and round cells, were less constant findings.

Of the rabbits presenting no symptoms after inoculation with living meningococci, one (G1) was killed 24 hours after injection and showed the "spontaneous" encephalitis of rabbits, with scattered foci and slight diffuse admixture of polymorphonuclear leucocytes in the predominantly lymphoid exudate in the pia, chorioid plexi, and ventricles. It appears probable that the relatively scanty polymorphonuclear response was assignable to the meningococcus. Failure to recover meningococci, together with the findings in rabbit G1, led to the examination of the brains of several rabbits which had received cultures boiled for 5 minutes before they were injected. Most of these animals showed some fever the next morning, but were otherwise normal and lively. They were killed 24 hours after injection and examined as above indicated.

Cultures from these rabbits were negative, but smears from cisternal fluid showed cocci within the abundant polymorphonuclear leucocytes.

Histologically these three animals showed purulent meningitis similar to the foregoing. Fibrin, hemorrhage, marginal purulent infiltration of brain substance, and chorioid plexitis of variable grade were seen in two rabbits.

These findings suggested that intact living meningococci might not be necessary to produce clinical symptoms. Thirty-eight rabbits were injected intracisternally with 0.2cc of filtered meningococcus suspensions prepared as for the Schwartzman reaction (3), except that no preservative was added and Berkefeld N filters were used.

Twenty-six rabbits, or 68 per cent, showed symptoms of intoxication, and only 2 recovered. These rabbits, as well as those receiving the living virulent cultures, fell into three groups: (1) Sixteen dying in 5 to 18 hours, corresponding to the group 1 rabbits receiving living virulent cultures; (2) three corresponding to group 2 receiving living cultures, and showing general spasticity and rigidity of the neck; (3) seven showing progressive paralysis indistinguishable from that seen in the rabbits of the group 3 that were given living cultures. Cultures from the meninges of all of these animals were negative. Smears from cisternal fluid withdrawn before autopsy showed numbers of polymorphonuclear leucocytes and lymphocytes in all except those rabbits that had died within 6 to 8 hours. In these the cells were relatively few.

Histologically no meningeal exudate was present in these animals dying eight hours after injection, but purulent meningitis and chorioid plexitis appeared after 16 hours and were most marked in the animal surviving for 48 hours.

SUMMARY

Clinical and histopathologic meningitis can be produced in rabbits by intracisternal injection of sufficiently virulent meningococci. A histopathological picture identical with the above, without clinical reaction, was found in animals which had received boiled suspensions of meningococci. A clinical and pathologic picture essentially identical to that produced by living meningococci was produced by inoculation with filtered suspensions.

These findings suggest that experimental meningitis in rabbits may not be purely an infection, and that intoxication may play an important part.

REFERENCES

(1) Zdrodowski, P., and Voronine, E.: Ann. l'Inst. Pasteur, 1932, 48, (5), 617.

(2) Murray, E. G. D.: Med. Res. Council, Special Rep., Series, No. 124, 1929.
(3) Shwartzman, G.: J. Inf. Dis., 1929, 45, 232.

REPORT OF COMMITTEE ON MILK

CONFERENCE OF STATE AND PROVINCIAL HEALTH AUTHORITIES JUNE 2, 1932

The Committee on Milk of the Conference of State and Provincial Health Authorities has this year included the following subjects in its deliberations:

(1) Shall health authorities permit the use of the term "natural milk" to denote what has hitherto been termed "raw milk"?

(2) Shall health authorities approve the process of short time-high temperature pasteurization, and, if so, under what specifications?

(3) What requirements should be made in case a milk distributor desires to distribute two grades of milk, or both raw and pasteurized milk?

(4) Shall health authorities approve the practice of recombining surplus skimmed milk and cream, and, if so, under what restrictions?

(5) In what manner can State health and agricultural departments cooperate with each other in connection with the public health and economic phases of the milk problem?

(6) What practical methods can be devised and recommended to increase the percentage of pasteurized milk for sale in the smaller cities and towns of the country?

(1) Shall health authorities permit the use of the term "natural milk" to denote what has hitherto been termed "raw milk"?

The committee believes that the only truly natural milk for human babies is human milk. Nature intended cows' milk for calves, and cows' milk is used for babies only as the next best thing to human milk. Raw milk which has been cooled is not more natural than raw milk which has been heated or pasteurized. Both cooling and heating retard the growth of certain kinds of bacteria. Heating, however, also devitalizes all disease bacteria which can be conveyed through milk. This is not true of cooling. Therefore, while cooling is an important public health measure, heating is an even more important one.

For these reasons the committee considers dangerous to the public health any movement or policy the result of which would be to mislead the milk consumer into thinking that Grade A Raw Milk is more natural and therefore better for babies than Grade A Pasteurized Milk. Public health authorities should therefore not permit the use of the word "natural" in the labeling of either raw or pasteurized milk or cream.

(2) Shall health authorities approve the process of short time-high temperature pasteurization, and, if so, under what specifications?

The process of short time-high temperature pasteurization has been studied and approved by the New York State Health Department and the Pennsylvania State Health Department. The Committee on Milk Sanitation of the engineering section of the American Public Health Association, the Committee on Milk Supply of the Conference of State Sanitary Engineers, and the Public Health Service have intensively studied the process and have outlined specifications for short time-high temperature pasteurization upon which the approval of health authorities should be based. Therefore, it is the opinion of the Committee on Milk of the Conference of State and Provincial Health Authorities that the process has been sufficiently intensively studied by expert milk sanitarians to justify its general approval by health authorities under the restrictions recommended in a memorandum of the United States Public Health Service dated February, 1932.

(3) What requirements should be made in case a milk distributor desires to distribute two grades of milk, or both raw and pasteurized milk?

The Public Health Service Milk Ordinance makes the following requirements: "If more than one grade of milk is sold by any distributor, separate receiving, pasteurizing, cooling, and bottling equipment shall be provided for each grade, and the equipment for each grade shall be located in separate buildings or in separate rooms of the same building."

The committee believes that these precautions are necessary in order to minimize the danger of lower grades of milk finding their way into Grade A bottles, or, in fact, of raw milk being bottled as pasteurized milk.

(4) Shall health authorities approve the practice of recombining surplus skimmed milk and cream, and, if so, under what restrictions?

The committee is informed by the State health officer of Delaware that it is the practice in certain cities for pasteurization plants to add cheap cream from one source to cheap surplus skimmed milk from another source, and then sell the mixture as sweet fluid milk in competition with ordinary sweet milk.

The committee believes that this practice should be forbidden by health authorities unless both skimmed milk and cream come from inspected sources which comply with the legal requirements for sweet milk and cream and unless the resulting product is so labeled as to show its true character. The committee bases this conclusion upon the belief that improperly produced milk and cream are not as safe as properly produced milk and cream, even though the process of pasteurization is later applied in both cases.

(5) In what manner can State health and agricultural departments cooperate with each other in connection with the public health and economic phases of the milk problem?

The committee believes that the primary functions of State health departments with reference to milk supplies should be---

(a) The encouragement of the adoption of the Public Health Service Milk Ordinance by municipal, county, and district health departments, and advisory assistance in the enforcement thereof.

(b) The rating at least once each year of the excellence of the public health supervision exercised by the various local health units.

(c) The encouragement from the public health point of view of the optimum consumption of properly produced and properly pasteurized milk.

The committee further believes that the primary functions of State agricultural departments with reference to milk supplies should be-

(d) The education of the dairy farmer as to the most sanitary and economical method of breeding, feeding, and housing cattle;

(e) The education of the dairy industry as to the most sanitary and economical method of producing, transporting, processing, and delivering milk supplies; and

(f) The promotion from the economic point of view of the dairy industry of optimum pasteurized milk consumption.

The committee believes that State health departments can effectively cooperate with State agricultural departments with reference to items (d) and (e) by making no requirements which are not justified from the public health point of view, and by interpreting justified requirements in a manner which will permit the most economic methods of compliance, consistent with effectiveness.

On the other hand, State agricultural departments can cooperate with State health departments with reference to item (a) by encouraging and educating the dairy industry, through county agents and other channels, to support the local adoption of the Public Health Service milk ordinance, and to comply with the ordinance after it has been adopted. The county agents can do much to insure that the dairy industry understands that compliance with the health department requirements is an important factor in promoting the welfare of the dairy industry, in that compliance with health department requirements increases the prestige and therefore the salability of the milk supply, as well as the amount consumed. Advice given by the county agents should, of course, be consistent with the instructions and advice given by the local milk inspector, unless the local milk inspector gives improper advice, in which case the matter should be referred to the local health officer.

State health and agricultural departments can effectively combine forces with respect to items (c) and (f), namely, the encouragement of optimum pasteurized milk consumption from the public health and economic points of view. In encouraging milk consumption both health and agricultural agencies should insure that the educational approach to the consumer is consistent with sound public health advice.

(6) What practical methods can be devised and recommended to increase the percentage of pasteurized milk for sale in the smaller cities and towns of the country?

The committee believes that this is a very important problem, since the milk-borne outbreak reports of the Public Health Service and the American Child Health Association clearly indicate that the vast majority of milk-borne outbreaks of disease occur in small communities in connection with raw milk supplies. It is believed that the solution of this problem should be largely through educational means and that compulsory pasteurization ordinances should be passed only after the educational program has reached and convinced an unmistakable majority of the population. The local health officers of communities in which any considerable percentage of the market milk is still sold raw are urged to use an educational approach similar to that recommended in the Public Health Service Milk Sanitation Program under the chapter heading What Policy Should the Health Officer Adopt with Reference to Pasteurization and with Reference to Increasing to the Optimum the Per Capita Consumption of Milk?

Furthermore, the dairy industry, through the agency of such an organization as the National Dairy Council, could with advantage inaugurate a persistent radio program which would combine a campaign for adequate milk consumption with one for the encouragement of the use of pasteurized milk only. If the National Dairy Council or other dairy organization undertakes such a radio program, the United States Public Health Service and the various State and city health departments should assist in furnishing the necessary educational material.

Earle G. Brown, Chairman

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COURT DECISION RELATING TO PUBLIC HEALTH

Death of hospital interne from epidemic meningitis held compensable under workmen's compensation act.—(Illinois Supreme Court; Arquin v. Industrial Commission, 181 N. E. 613; decided June 24, 1932.) In an action under the workmen's compensation act, brought by a widow to recover compensation for the death of her husband, it appeared that the deceased was an interne in the contagious ward of the Cook County Hospital. From December 1 until December 6, 1928, the deceased was continuously engaged in the treatment of patients suffering from epidemic meningitis and made spinal punctures upon such patients. He became ill with the disease on December 6 and died two days later. The contention was made that epidemic meningitis was not an accidental injury for which compensation could be allowed, but the supreme court held that the deceased "died as a result of an accidental injury arising out of and in the course of his employment."

DEATHS DURING WEEK ENDED JULY 23, 1932

Summary of information received by telegraph from industrial insurance companies for the week ended July 23, 1932, and corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

	Week ended July 23, 1932	Corresponding week, 1931
Policies in force	71, 774, 641	75, 023, 856
Number of death claims	11, 998	13, 054
Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 29 weeks of	8.7	9. 1
year, annual rate	10. 0	1 0. 3

Deaths ¹ from all causes in certain large cities of the United States during the week ended July 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931. (From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

[The rates published in this summary are based upon mid-year population estimates derived from the 1930 census]

City	Wee	k ended	July 23,	1932	Corres week	ponding , 1931	Death rate ² for the first 29 weeks	
	Total deaths	Death rate ²	Deaths under 1 year	Infant mortali- ty rate ³	Death rate ²	Deaths under 1 year	1932	1931
Total (85 cities)	7, 559	10.8	593	• 49	10. 2	585	11.8	12.7
A kron A lbany ⁴ A tlants ⁴	34 31 71	6.7 12.4 13.1	7 1 2	87 20 19	6. 1 9. 3 16. 0	3 6 12	7.6 14.2 13.7	8.0 14.5 15.8
White Colored Baltimore ^{\$ 6} White	39 32 203	10.9 17.5 12.9	1 1 17	15 29 60	10.5 26.9 12.0	6 6 12	10.8 19.4 13.8	12.4 22.5 15.2
Colored Birmingham 4 White	61 70 33	21. 2 13. 2 10. 0	6 8 2	96 83 33	13.1 9.5 6.9	10 2 9 2	12.8 18.3 11.5 9.0	13.9 21.2 14.3 11.1

See footnotes at end of table.

Deaths ¹ from all causes in certain large cities of the United States during the week ended July 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued

	Wee	k ended	July 23,	1 932	Corresponding week, 1931		Death rate for the first 29 weeks	
City	Total deaths	Death rate	Deaths under 1 year	Infant mortali- ty rate	Death rate	Deaths under 1 year	1932	1931
Boston	104	12.9	22	· 66	11.6	10	14.8	14.8
Bridgeport	21	7.4	2	36	9.2	2	11.1	11.7
Buffalo	112	10.0	7	34	10.9	10	13.1	13.9
Cambridge	26	11.9			8.7	1	13.1	12.7
Canton	20	10 1		30 50	83	9	15.0	19.8
Chicago ⁸	671	10.0	53	52	9.4	65	10.3	11.4
Cincinnati	180	20.4	6	39	14.3	6	15.5	16.8
Cleveland	153	8.7	9	29	10.1	20	11.3	11.8
Columbus	88 73	10.4	6	10	12.7	13	14.0	14.4
White	55	12.3	8		11.3	12	10.0	10.6
Colored	18	19, 3	1 i		15.4	ī	15, 1	18.5
Dayton	51	12.8	6	86	12.0	6	12.2	12.7
Denver	63	11.2	5	49	16.1	7	14.8	14.6
Des Moines	30 218	12,0	20	34 36	11.5	10	80	80
Duluth	18	9.2	ĩ	29	11.8	Ő	10.9	11.0
El Paso	32	15.6	5		14.4	11	14.0	16.5
Erie	18	7.9	0	0	6.2	1	11.9	10.9
Evansville	29	14.3	3	100	5.5 5.4		10.4	11.9
Wint	21	6.5	4	59	5.7	4	7.9	7.6
Fort Wayne	21	9, 1	2	52	10, 6	$\overline{2}$	10.5	11.2
Fort Worth 6	41	12.6	1		10.0	6	10.4	11.4
White	31	11.3			8.6	4	9.9	10.9
Colored	27	19.0	1	17	17.3	1	91	10.7
Hartford	41	12.6	3	40				
Houston .	77	12, 4	7		10.1	6	11, 1	11, 5
White	49	10.7	5		7.8	4	10.3	10.7
Colored	28	17.1		 85	16.3	2	13.4	13, 8
White	76	12.1	6	55	13.2	6	12.6	13.9
Colored	16	18.1	Ž	137	17.3	3	15.8	17.7
Jersey City	62	10, 1	4	33	11.0	9	11.6	12.3
Kansas City, Kans.	22	9.3	2	44	6.4	U N	12.5	13.6
Colored	8	13.2	i	128	13.3	ŏ	14.1	17.9
Kansas City, Mo	95	11.9	9	102	11.5	7	12.5	14.0
Knoxville ⁶	24	11.2	2	51	7.2	3	12.2	13.2
White	15	8.4	0	520	5.1	2	11.2	12.1
Long Reach	20	9.4	ő	6	8.9	3	9.1	10.0
Los Angeles	270	10.2	18	53	9.4	17	10, 7	11, 1
Louisville.	74	12.5	8	73	11.7	4	13.7	15, 1
White	60	12.0	8 0	83	10.6	4	12.4	13.0
Colored	21	11 0	ŏ	ŏ	10.9	3	14.1	13.2
Lynn	11	5.6	Ō	Ó	10.7	0	11.1	10.5
Memphis 6	98	19.4	6	65	16.1	5	16.8	16.9
White	53	17.0	4	60	14.0	4	13.2	21 7
Colored	24	11 5	2	56	10.7	il	12.3	12.3
White	18	ii i	$\tilde{2}$	78	9.6	ī	11.0	11, 2
Colored	6	13.0	0	0	14.4	0	16.2	16.3
Milwaukee	121	10.5	13	62	8.4	10	9.0	10.0
Minneapoils	71	23 7	10	164	15.4	7	15.5	17.4
White	45	20,6	5	98	13.0	3	14, 1	14.9
Colored	26	31.7	6	374	21.9	4	19.4	23.9
New Bedford 7	20	9.3	2	58	11.6	4	11.8	13.1
New Haven	170	12.9	16	01	15.8	13	16 1	17.5
White	109	16.9	10	87	11.4	6	13.6	14.2
Colored	70	26.6	6	98	25. 2	7	22.0	25.7

See footnotes at end of table.

August 12, 1932

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Deaths 1 from all causes in certain large cities of the United States during the week ended July 23, 1932, infant mortality, annual death rate, and comparison with corresponding week of 1931—Continued

	Wee	ek ended	July 23,	, 1932	Corresponding week, 1931		Death rate for the first 29 weeks	
City	Total deaths	Death rate	Deaths under 1 year	Infant mortali- ty rate	Death rate	Deaths under 1 year	1932	1931
New York Bronx Borough Brooklyn Borough Manhattan Borough Queens Borough Richmond Borough Newark, N. J Oakland Oklahoma City. Omaha. Paterson Peoria. Philadelphia. Pittsburgh. Portland, Oreg. Providence. Richmond 4. White. Colored. Rochester. St. Louis. St. Paul. San Francisco. Schenectady. Scentide. Somerville. South Bend. Spracuse. Tacoma. Tacoma. Tacoma. Tacoma. Tacoma. Trenton. Utica. White. Colored. Trenton. Utica. White. Colored. Trenton. Utica. White. Colored. White.	$\begin{array}{c} 1,225\\ 1,781\\ 391\\ 477\\ 136\\ 371\\ 41\\ 42\\ 60\\ 30\\ 24\\ 332\\ 152\\ 61\\ 54\\ 49\\ 28\\ 21\\ 70\\ 274\\ 67\\ 39\\ 61\\ 274\\ 67\\ 39\\ 61\\ 274\\ 67\\ 39\\ 61\\ 274\\ 67\\ 39\\ 61\\ 274\\ 67\\ 39\\ 61\\ 274\\ 67\\ 39\\ 61\\ 26\\ 61\\ 26\\ 61\\ 26\\ 61\\ 25\\ 143\\ 37\\ 36\\ 81\\ 21\\ 15\\ 6\\ 83\\ 37\\ 25\\ 143\\ 85\\ 48\\ 82\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 12\\ 1$	$\begin{array}{c} 8,9 \\ 6,7 \\ 7,7 \\ 14,0 \\ 5,4 \\ 8,2 \\ 7,7 \\ 14,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 11,3 \\ 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0 0 18 138 43 43 373 26 19 121 135 92 38 61 143 82 28 86 16 151 39 110 57 70 0 65 119 28 88 40 57 70 0 0 65 139 10 10 57 70 0 0 65 139 10 10 57 70 0 0 18 138 138 138 138 138 138 138 138 138	$\begin{array}{c} 9.3\\ 6.7\\ 6.6\\ 6.6\\ 6.6\\ 14.4\\ 9.6\\ 9.8\\ 9.5\\ 11.8\\ 5.11.1\\ 10.6\\ 11.1\\ 11.1\\ 14.3\\ 0.17.0\\ 11.7\\ 17.0\\ 11.7\\ 17.7\\ 16.8\\ 7.5\\ 7.7\\ 7.6\\ 6.0\\ 10.3\\ 10.3\\ 10.3\\ 10.3\\ 10.5\\ 10.1\\ 11.7\\ 9.85\\ 12.5\\ 10.4\\ 10.5\\ 10.4\\ 11.7\\ 9.85\\ 12.5\\ 10.4\\ 10.5\\ 10.4\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 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12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 11.2\\ 12.4\\ 11.4\\ 12.5\\ 12.4\\ 12.5\\ 12.4\\ 12.5\\ 12.4\\ 12.5\\ 12.4\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 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12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ $	$\begin{array}{c} 11.9\\ 8.7\\ 11.9\\ 8.7\\ 11.0\\ 18.1\\ 7.2\\ 12.4\\ 8.7\\ 14.3\\ 12.4\\ 14.3\\ 13.4\\ 11.6\\ 12.0\\ 13.5\\ 14.1\\ 15.5\\ 14.1\\ 12.5\\ 14.1\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 12.5\\ 14.1\\ 12.5\\ 14.1\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 12.5\\ 14.5\\ 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14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.5\\ 14.$
Wilmington, Del. ⁷	32 36 15 28	15.7 9.5 5.5 8.4	1 3 1 3	23 42 26 49	12.2 10.6 5.3 9.0	4 4 0 1	15.7 12.7 8.0 10.0	14.7 13.0 9.0 11.0

¹ Deaths of nonresidents are included. Stillbirths are excluded.

² These rates represent annual rates per 1,000 population, as estimated for 1932 and 1931 by the arithmetical method.

Deaths under 1 year of age per 1,000 estimated live births. Cities left blank are not in the registration area for births.

Data for 81 cities.

Deaths for week ended Friday.

⁶ For the cities for which deaths are shown by color, the percentages of colored population in 1930 were as follows: Atlanta, 33; Baltimore, 18; Birmingham, 38; Dallas, 17; Fort Worth, 16; Houston, 27; Indian-apolis, 12; Kansas City, Kans., 19; Knorville, 16; Louisville, 15; Memphis, 38; Miami, 23; Nashville, 28; New Orleans, 29; Richmond, 29; Tampa, 21; and Washington, D. C., 27. ⁷ Population Apr. 1, 1930; decreased 1920 to 1930, no estimate made.

PREVALENCE OF DISEASE

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

UNITED STATES

CURRENT WEEKLY STATE REPORTS

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

Reports for Weeks Ended July 30, 1932, and August 1, 1931

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended July 30, 1932, and August 1, 1931

	Diphtheria I		Infi	Influenza		Measles		gococcus ngitis
Division and State	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931
New England States: Maine New Hampshire Vermont. Massachusetts Rhode Island. Connecticut	1 2 37 1 3	3 	 2 1	1 2 1 2	22 3 7 147 7 34	11 4 1 93 35 28	0 0 1 0 0	0 0 3 0
Middle Atlantic States: New York New Jersey Pennsylvania	39 15 31	69 12 42	14 1	14	445 141 184	389 65 214	3 0 5	9 0 5
East North Central States: Ohio Indiana Illinois Michigan Wisconsin	24 26 26 16 4	27 13 54 22 12	6 19 16 	3 7 133 	87 73 293 101	263 14 200 62 83	1 8 2 1 2	1 2 8 3 1
West North Central States: Minnesota Iowa Missouri North Dakota South Dakota Nebraska Kanses	3 6 12 6 3 6	3 4 8 4 1 2 5	4	2	17 3 13 5 	17 5 4 10 1 2 6	2 0 1 1 0 0	2 0 5 0 0 0
South Atlantic States: Delaware	6 9 7 22 8 8 5	2 12 9 3 17 6 4	26 74 10	1 	7 2 37 51 79 24 2	3 19 9 59 18 29 7 5	0 0 0 2 0 2 0 0	0 1 3 2 2 2 0 1

See footnotes at end of table.

Cases of	certain communicable diseases reported by telegraph by State health office	r 8
•	for weeks ended July 30, 1932, and August 1, 1931-Continued	

	Dip	htheria	Infl	uenza	Ме	asles	Menin men	sococcus ingitis	
Division and State	Week ended July 30 1932	Week ended Aug. 1, 1931	Week ended July 30 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	
East South Central States: Kentucky Tennessee Alabama 4 Mississippi West South Central States:	8 3 19 7	1 7 14	24	22	2 1	42 2 9	0 1 1 0	2 1 1 1	
Arkansas. Louisiana Oklahoma 4. Texas 3. Muntain States:	5 13 17 36	1 15 6 4	2 1 7 38	4 9 5	31 5 5	5 	0 0 1	0 0 0 0	
Montana. Idaho. Wyoming. Colorado	1 3 6 9	1			56 	22 2 3 23	0 0 0 1	0 2 0 0	
Arizona Utah ² Pacific States: Weshington	2		2	7	2	4 6 14	Ô	01	
Oregon California	26	45	7 32	4 8	14 54	13 90	0 2	1 0	
Total	491	485	274	264	1, 995	1, 898	37	60	
	Poliomyelitis		Scarlet	Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut Middle Atlantic States: New York New York Pennsylvania Bast North Central States: Ohio Undice	1 0 0 1 1 0 6 2 19 5	4 1 0 25 8 37 433 16 1 1	5 6 2 105 9 19 122 43 116 96	0 1 81 5 7 108 49 75 92	0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 3 0 0 0 2 0 0 0 0 17	3 0 5 1 1 31 7 30 56	0 6 0 8 2 4 24 6 16 32	
Indiana Illinois Michigan Wisconsin West North Central States:	0 10 2 4	0 15 13 11	20 73 75 12	18 68 66 16	3 14 1 0	19 15 6 1	28 36 11 9	12 25 5 3	
Minnesota Iowa. Missouri North Dakota. South Dakota. Nebraska. Kansas.	3 8 0 1 0 0 1	10 1 2 0 0 0 0	22 10 29 2 1 1 13	20 9 13 6 1 13 13 19	0 4 9 2 3 2	1 11 13 1 4 21	1 4 40 5 3 1 19	3 1 88 3 4 5 12	
South Atlantic States: Delaware	0 0 2 1 2 0 0 0	0 0 1 1 3 1 1 1	0 16 7 11 4 35 1 5 2	2 17 4 22 1 6 6	0 0 0 0 2 0 0 0 0	0 0 0 1 1 0 7 0	3 23 4 55 50 56 77 5	0 28 2 36 47 94 60 6	

- · · ·	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
Division and state	Week ended July 30, 1932	Week ended Aug. 1, 1631	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931	Week ended July 30, 1932	Week ended Aug. 1, 1931
East South Central States: Kentucky	2	0	_20	21	6	0	108	13
Tennessee	1	1	7	6	3	3	141	89
Alabama 1	0	0	7	12	0	1	29	58
Mississippi	1	1	5	4	2	7	39	55
West South Central States:								
Arkansas	2	0	0	6	4	11	29	40
Louisiana	0	1	4	1	0	0	71	76
Oklahoma 4	0	1	8	14	1	7	48	38
Teras ³	5	2	23	15	8	1	40	15
Mountain States:								
Montana	0	1	2	2	4	0	4	3
Idaho	0	0	1	3	0	3	6	1
Wyoming	0	0	2	2	0	2	0	1
Colorado	0	1	8	9	0	7	5	4
New Mexico	0	1	3	0	0	1	16	0
Arizona	0	0	1	0	2	0	2	5
Utah ²	0	0	0	1	0	0	1	0
Pacific States:								
Washington	1	0	14	5	5	5	4	4
Oregon	1	0	6	2	4	8	3	6
California	6	3	39	42	9	7	10	16
Total	83	598	1, 012	878	94	187	1, 179	912

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended July 30, 1933, and August 1, 1931—Continued

New York City only.
 Week ended Friday.
 Typhus fever, week ended July 30, 1932, 17 cases: 2 cases in North Carolina, 1 case in South Garolina, 1 case in Gorgia, 5 cases in Alabama, and 8 cases in Texas.
 Figures for 1932 are exclusive of Oklahoma City and Tulsa and for 1931 are exclusive of Tulsa enly.

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- enza	Mala- ria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoidi fever
June, 1938 Arkansas		8 4 20 67 5 	45 2 6 28 14 1 31 62 20 87 535 52	99 2 86 	2 13 632 34 379 179 257 598 25 25 374 705 5,066	211 	1 0 2 2 0 4 0 1 12 2 4 6	9 5 54 33 24 31 31 19 71 73 63 229	11 4 36 6 33 1 50 28 5 0 48 4	68 13 22 102 7 7 60 111 9 48 81 23 8 8

¹ Exclusive of Oklahoma City and Tulsa.

August 12, 1932

June, 1958	Cases
Anthrax:	•
Arkansas	4
Botulism: Washington	2
Chicken pox:	
Arkansas	14
Idaho	12
Kansas	10
Montena	51
Nevada	13
Oklahoma 1	18
Oregon	54
South Dakota	37
Virginia	248
Wisconsin	1,086
Dengue:	
Louisiana	3
Dysentery:	
Louisiana	2
Oregon	1
Dysentery and diarrhea:	•
Virginia	1, 566
German measles:	
Kansas	2
Montana	3
Washington	12
HOOKWOFID distase:	1
Louisiana	23
Impetigo contagiosa:	
Montana	9
Oklahoma 1	3
Oregon	19
Leprosy:	1
Louisiana	-
Louisiana	2
Wisconsin	2
Mumps:	
Arkansas	20
Idaho	25
Kansas	194
Montana	30
Oklahoma ¹	14
Oregon	65
South Dakota	18
Washington	58
Wisconsin	382
Opitnaimia neonatorum:	. 1
Paratyphoid fever:	-
Kansas	1
Louisiana	3
Texas	2
Virginia	2
Kaples in animais:	10
Washington	1
Rocky Mountain spotted or tick fever:	-
Idaho	9
Montana	27

Rocky Mountain spotted or tick fever-Con.	_
Nevada	5
Oregon	10
South Dakota	3
Virginia	3
Scables:	
Montana	10
Oregon	18
Septic sore throat:	
Louisiana	1
Montana	
	1
Cilicoria	•
Montana	1
Тоторие.	•
Konsos	3
Louisiana	5
Oklahoma 1	1
South Dakota	1
Tick naralysis:	
Montana	1
Trachoma:	
Arkansas	3
Oklahoma 1	3
South Dakota	8
Trench mouth:	
Oklahoma ¹	2
Trichinosis:	
South Dakota	1
Tularæmia:	
Louisiana	- 4
Montana	3
Oregon	3
Wisconsin	1
Typhus fever:	
Virginia	2
Undulant fever:	
Kansas	10
Louisiana	. 4
Montana	3
South Dakota	1
Virginia	4
Wasnington	2
Wisconsin	0
Vincent S angina.	10
Kansas	10
Oblehome 1	2
Origina ·	3
Wheering cough:	v
Arbansan	56
Ideho	1
Kansas	496
Louisiana	36
Montana	52
Nevada	20
Oklahoma ¹	56
Oregon	73
South Dakota	40
Virginia	1, 012
Washington	48
Wisconsin	1, 079

Cases

1 Exclusive of Oklahoma City and Tulsa.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES

The 97 cities reporting cases used in the following table are situated in all parts of the country and have an estimated aggregate population of more than 33,980,000. The estimated population of the 90 cities reporting deaths is more than 32,420,000. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

	1932	1931	Estimated expectancy
Cases reported			
Diphtheria:			1
46 States	490	487	
97 cities	176	215	407
Measles:			1
45 States	3, 282	2,411	
97 cities	934	854	
Meningococcus meningitis:			ł
46 States	40	59	-
97 cities	17	29	-
Poliomyelitis:			
46 States	48	307	
Scarlet fever:			
46 States	1,086	951	
97 cities	409	338	343
Smallpox:			
46 States	102	204	
97 cities	7	19	26
Typhoid fever:			1
46 States	1, 247	758	
97 cities	138	101	S0
Deaths reported			
Influenza and pneumonia:	210		
90 cities	319	2/8	
Smallpox:			
90 cities	U	0	
		l	1

Weeks ended July 23, 1932, and July 25, 1931

City reports for week ended July 23, 1932

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpor, and typhoid fever is the result of an attempt to ascertain from previous occurrence the number of cases of the disease under consideration that may be expected to occur during a certain week in the absance of epidemics. It is based on reports to the Public Health Service during the past nine years. It is in most instances the median number of cases reported in the corresponding weeks of the preceding years. When the reports include several epidemics, or when for other reasons the median is unsatisfactory, the epidemic periods are excluded, and the estimated expectancy is the mean number of cases reported for the week during nonepidemic years.

If the reports have not been received for the full nine years, data are used for as many years as possible but no year earlier than 1923 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviation from the usual trend. For some of the diseases given in the table the available data were not sufficient to make it practicable to compute the estimated expectancy.

		Diphti	neria	Infue	nza			_
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reportad	Cases reported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths reported
NEW ENGLAND								
Maine: Portland New Hampshire: Concord	2	1	0		0	0	0	0
Manchester Nashua	Ŭ Ŭ	10	0		0	0	0 0	1 0

		Diph	theria	Influ	lenza			
Division, State, and city	Chicken pox, cases reported	Cases, estimated expect- ancy	Cases reported	Cases reported	Deaths reported	Measles, cases re- ported	Mumps, cases re- ported	monia, deaths reported
NEW ENGLAND-COD.								
Vermont:								
Burlington	l 0	Ő	0		Ö	ŏ	ŏ	
Boston	12	17	9		0	53	31	15
Springfield	0	1	0	1	1 0	15	04	3
Worcester Rhode Island:	8	0	1		0	4	0	1
Pawtucket Providence	03	1	02		0	0	0	
Connecticut: Bridgeport	1	1	-	1		15	0	
Hartford	Ō	1	Ő	2	Ő	1	2	1
MIDDLE ATLANTIC	1	U	U	2	U	U	3	
New York:								
Buffalo	9 97	6 124	. 0		0	9 219	0	8
Rochester	2	2	10 0		0	1	2	5
New Jersey:	9	2	0		U	0	1	U
Camden Newark	0 9	2 8	1		0	0 51	0 42	03
Trenton Pennsylvania:	0	0	0	1	0	5	0	3
Philadelphia Pittsburgh	16 12	30 10	1	1	2	8 20	21	8
Reading	2	2	õ		ŏ	Ď	õ	ï
BAST NORTH CENTRAL								
Ohio: Cincinnati	2	3	2		1	0	0	6
Cleveland	20 0	13	3	1	0	21 15	8	3
Toledo	Ť	2	ŏ		ŏ	17	ŏ	
Fort Wayne	0	1	3		0	0	0	0
South Bend	0	Ő	0		0	Ő	0 10	32
Illinois:	U	0	0		0	1	0	1
Chicago Springfield	42 1	54 0	14 0		0	65 1	4	20 2
Michigan: Detroit	18	94	5			240	5	10
Flint	7	1	0		ŏ	4	3	1
Wisconsin:	0	0	0			6	z	0
Madison	3	Ő	1			6	0	U
Milwaukee	15 16	7	2 0	1	1	29 1	4	6 0
Superior	1	0	0		0	0	0	0
WEST NORTH CENTRAL								
Minnesota: Duluth	4	0	0			0	0	0
Minneapolis St. Paul	13	8	2		Ŏ	7	2	5
Iowa: Des Moines	- -				•		,	ð
Sioux City	5	ŏ	1			1	Ŏ	
Missouri:	0	U	1			0	I	
Kansas City St. Joseph	1	1	2		0	5 0	3	2 4
St. Louis North Dakota:	5	15	6	•••••		2	4	4
Fargo Grand Forks	0	0	0		0	1	0	0
we was a view	~ ·	~ 1	· · ·			~ 1	w 1.	

City reports for week ended July 25, 1952-Continued

Diphtheria Influenza Pneu-Measles, Mumps, Chicken Division, State, and monia. Cases cases re pox, case cases reestimated Cases Cases Deaths deaths city reported ported ported reported reported reported reported expectancy WEST NORTH CEN-TRAL-continued South Dakota: A n Aberdeen 0 Λ ---------. Sioux Falls..... 0 0 0 A -----0 ----Nebraska: Omaha. 0 3 0 2 0 5 1 Õ Kansas: Topeka..... 1 Ô 1 n 11 3 Ø Wichita..... Ō Ò 0 0 0 1 SOUTH ATLANTIC Delaware: Wilmington..... 0 1 0 0 0 0 2 Maryland: Baltimore. 8 8 2 A n 27 9 Cumberland Ò 0 A A 0 0 2 Õ Ó Ō 0 0 0 0 Frederick District of Columbia: Washington..... 7 4 4 1 1 4 0 6 Virginia: A Lynchburg..... A 0 0 0 0 a Norfolk ... Ō 0 0 0 1 0 1 ---------Richmond..... 0 0 0 1 1 1 0 ----ō Õ Ō 0 0 ī 0 Roanoke West Virginia: 0 0 0 0 0 ۵ 0 Charleston ... 2 0 1 0 0 Huntington..... ĩ ž Ō ī Ô 6 0 Wheeling -----North Carolina: 0 1 0 0 0 0 0 Raleigh Wilmington 1 Ò 0 0 0 0 3 ŏ ŏ 3 Õ ã. 0 Ô Winston-Salem.... South Carolina: 0 n 14 ٥ 0 0 1 A Charleston õ Õ i 0 2 0 Columbia..... 0 Georgia: 0 0 6 0 2 3 0 1 Ttlanta. ----õ A 0 1 0 0 Brunswick A õ õ ŏ Savannah..... 0 2 0 1 Florida: 3 0 0 0 0 Miami..... Tampa..... 0 1 -----Ō 0 0 A 1 1 A -----EAST SOUTH CENTRAL Kentucky: 0 Covington..... Õ 0 2 Lexington..... 1 0 0 Tennessee: 0 5 Memphis..... A 0 0 0 ----ŏ 0 0 Õ 0 0 0 Nashville..... Alabama: 0 0 A Birmingham 0 1 1 n ō Ô 0 0 2 0 n Mobile..... 0 1 Ô 0 1 Montgomery..... -----WEST SOUTH CENTRAL Arkansas: A 0 ۵ Fort Smith 0 2 õ Õ Ō 0 0 0 Little Rock -----Louisiana: 0 8 A 0 5 0 1 1 New Orleans.... Ó ŏ 0 ō Ô 1 0 Shreveport Oklahoma: 0 n 0 2 0 Muskogee. 2 ō 1 5 0 Oklahoma City ... n 1 1 0 1 Tulsa..... 0 1 - -Texas: 2 O 5 0 2 8 1 1 Dallas. õ ō Ô 2 Fort Worth 1 0 1 ô Ō 0 Ō 1 Galveston..... 0 0 2 1 -----2 5 0 3 0 1 Houston . . -----

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City reports for week ended July 23, 1932-Continued

133121°-32--2

San Antonio.....

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			Dip	htheris	•		Infi	ienza					
Division, State, as eity	ad Cl pox rej	nicken , cases ported	Cases, estimate expect- ancy	d Ca repo	ses rted	re	Cases ported	Death reports	Me case is poi	asles, s re- rted	M ca p	umps, ses re- orted	Pneu- monia, deaths reported
MOUNTAIN													
Montana: Billings Great Falls Helena Missoula Idebo:		0 0 8 0	0 0 0		0 0 0 0				000000000000000000000000000000000000000	1 0 0 0		0 0 0 0	0 1 0 2
Boise		1	0		0				0	0		0	1
Denver Pueblo		7 5	5 0		4 0				0	9 0		10 0	5 0
Albuquerque		0	0	•	0				0	0		1	· 0
Phoenix		0	9		0				0	0		0	0
Salt Lake City Nevada:	·	13	1		0				0	3		2	0
Reno		0	0		0				0	0		0	0
Washington: Seattle Spokane Tacoma		18 6 1	1 0 2		0					1 8 3		2	
Oregon: Salem		0	0		0				0	2		0	1
California: Los Angeles		36	17		29		10		0	21		20	11
Sacramento San Francisco.		1 6	2 5		0 4				0	0 9		1 1	04
	Scarle	et fever	8	Smallpo				T	yphoid i	lever			
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Dea re por	ths ted	deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deat re- porte	hs ad	eough, cases re- ported	Deaths, all causes
NEW ENGLAND													
Maine: Portland New Hampshire:	0.	3	0	0		0	o	0	1		0	1	21
Concord Manchester	0	0	0	0		0	0	Ó	0		0	0	4
Nashua Vermont:	Ŏ	ō	Ŏ	Ŏ		ŏ	Ō	ŏ	ŏ		ŏ	ŏ	
Barre Burlington Massachusetts:	0 0	0	0	000		0 0	0 0	0	0 0		00	0 2	33
Boston Fall River Springfield	21 1 1 2	38 4 3	0	0000		0000	401	1 0 0	0000	•	100	60 0 6	194 22 34
Rhode Island: Pawtucket	1	0		0		0	0	0	0		0	0	16
Providence Connecticut:	4	Ť	ŏ	ŏ		ŏ	ð	ŏ	1		ŏ	6	54
Bridgeport Hartford New Haven	1 1 1	0 4 0	0 0 0	0 0 0		0 0 0	1 0 1	0 0 0	0 0 0	1	0000	3 5 20	21 40 40
MIDDLE ATLANTIC				-			_	-	-				
New York: Buffalo New York Rochester Syracuse	8 42 3 2	13 35 18 12	0 0 0 0	0 0 0 0		0000	5 96 4 0	0 15 9 0	0 16 0 0		0200	25 128 7 25	112 1, 225 64 36

City reports for week ended July 23, 1932-Continued

	Scarle	t fever		Smallpo	X	Tuber-	Т	rphoid f	ever	Whoop-	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
MIDDLE ATLAN- TIC-continued											
New Jersey: Camden Newark Trenton Panneylrepia:	1 6 0	3 3 1	0 0 0	0 0 0	0 0 0	2 0 4	0 0 0	1 1 0	0 0 0	0 12 11	28 37
Philadelphia Pittsburgh Reading	24 12 0	27 14 3	0 0 0	0 0 0	0 0 0	19 6 0	4 1 0	1 3 0	0 0 0	47 51 11	382 152 20
BAST NORTH CEN- TRAL											
Ohio: Cincinnati Cleveland Columbus Toledo	6 11 2 3	5 20 5 5	1 1 1 1	0 0 0 0	0 0 0 0	7 16 2 4	1 2 0 1	3 2 2 3	1 0 1 1	10 53 24 21	180 153 88 81
Fort Wayne Indianapolis South Bend Terre Haute Illinois:	1 2 0 1	0 1 0 1	0 3 0 0	0 0 0 0	0 0 0 0	2 5 1 1	0 0 0 0	0 5 0 0	1 0 0 0	0 12 2 0	22 18 31
Chicago Springfield	48 0	37 1	1 0	0 0	0 0	32 1	4 0	4 2	1 0	87 1	671 24
Michigan: Detroit Flint Grand Rapids_ Wisconsin:	31 5 4	32 1 1	1 0 0	0 0 0	0 0 0	19 1 0	2 0 0	1 1 0	0 1 0	150 21 27	218 21 27
Kenosha Madison Milwaukee Racine	1 1 8 1	0 1 7 0	0 0 1 0	0 0 0	0	0 3 0 0	0 0 1 0	0 0 0 1	0	6 15 70 0	7 121 15 8
WEST NORTH CEN- TRAL	1	U	v	Ů	v	Ŭ	v	-	Ĵ	_	
Minnesota: Duluth Minneapolis St. Paul	4 10 6	0 5 4	0 0 0	0 0 0	000	1 3 3	0 0 0	- 0 1 0	0 0 0	0 9 31	18 122 73
Iowa: Des Moines Sioux City Waterloo	1 0 1	0 1 0	0 1 0	0 0 0			0 0 0	1 0 0		0 1 0	35
Missouri: Kansas City St. Joseph St. Louis	2 0 8	18 0 2	0 1 1	0 0 0	0 0 0	6 1 17	1 0 3	5 2 8	0 0 1	56 4 14	95 38
Grand Forks.	0 1	0 0	0 0	0 0	0	1	0 0	0 0	0	0	5
Aberdeen Sioux Falls	0 0	0 0	0 0	0 0			0 0	0 0		0 0	5
Neoraska: Omaha Kansas:	1	1	0	1	0	1	0	0	1	3	60
Topeka Wichita	1 0	0	0 0	0 0	0 0	0	0	0	0	33 2	24
SOUTH ATLANTIC											
Wilmington Maryland:	1	4	0	0	0	0	0	0	0	2	32
Baltimore Cumberland Frederick	7 0 0	9 0 0	0 0 0	0 0 0	0 0 0	17 0 0	4 0 0	1 1 0	0000	40 2 0	203 11 3
Washington	6	3	0	0	0	15	2	4	0	5	143

City reports for week ended July 23, 1932-Continued

	Scarle	t fever		Smallpo	x	Tuber-	Т	phoid f	ever	Whoop	
Division, State, and city	Cases, esti- mated erpect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	culo- sis, deaths re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
SOUTH ATLANTIC-											
Virginia: Lynchburg Norfolk Richmond Roanoke Waat Virginia	0 0 2 1	2 1 5 0	0 0 0 0	0 0 0 0	0 0 0 0	0 3 6 1	1 1 1 1	1 0 1 0	0 0 0 0	33 3 0 0	13 41 57 7
Huntington Wheeling	0	1 0	0	0	0	1	0	0 2 1	0	0	16
North Carolina: Raleigh Wilmington Winston-Salem	0000	0 0 1	0 0 1	0000	0	2 0 0	1 0 1	0000	1 0 0	3 0 20	17 25 16 19
South Carolina: Charleston Columbia	0 0	0 0	0	0	0 0	5 1	1 2	1 1	0 0	0 1	26 19
Atlanta Brunswick Savannah	2 0 0	1 0 0	0 0 0	0 0 0	0 0 0	3 0 2	3 0 1	6 0 5	0 0 0	3 0 1	71 1 32
Miami Tampa	1 0	0 1	0	0 0	0 0	3 1	0 0	0 0	0 0	0 0	24 24
EAST SOUTH CEN- TRAL											
Kentucky: Covington Lexington	0	0	0	0	ö	0	0	2	1	2	
Tennessee: Memphis Nashville	1 0	0	1	0	0	5 2	8 4	4 2	0	83	98 71
Alabama: Birmingham Mobile Montgomery	0 0 0	3 1 0	0	0 0 0	0 0	7 0	4 1 2	4 1 0	· 0 0	10 1 0	70 14
WEST SOUTH CENTRAL	-		-				_			Ĵ	
Arkansas: Fort Smith Little Rock	0 0	0 1	0	0		2	0 0	0	1	. 0	
New Orleans. Shreveport Oklahoma:	4 0	3 0	0 0	0 0	0	13 4	5 2	¹ 28 1	1 3	0 2	179 51
Muskogee Oklahoma City	0	1	 1	0				0	·····	0	
Tulsa Texas:	i	Ő	i	Ŏ.			ŏ	2		18	
Fort Worth Galveston Houston San Antonio	1 0 1 1	3 0 0 3 3	0 0 1 0	000000000000000000000000000000000000000	0 0 0 0	4 0 1 6 3	2 0 0 1 1	4 1 0 3 2	2 0 0 0 1	2 0 0 0 0	78 41 19 77 61
MOUNTAIN											-
Montana: Billings Great Falls Helena Missoula	0 1 0 0	0 0 0	0 1 0 1	0 0 0	0 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0	0 1 0 0	7 9 5 7
Idaho: Boise Colorado:	o	o	0	0	0	0	0	0	o	0	IJ
Denver Pueblo	4	8	0 1	0	0 0	3 1	0	0	0	23 1	60 10

City reports for week ended July 23, 1932-Continued

¹ Includes 24 nonresidents.

	Scarle	t fever		Small	pox		Tub	er-	Т	yphoid	fever	Whoop	
Division, State, and city	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Case re- porte	s Dez re 1 por	aths 8- ted	culo sis, deat re- porte	> hs ed	Cases esti- mateo expect ancy	Cases, re- ported	Deaths re- ported	ing cough, cases re- ported	Deaths, all causes
MOUNTAIN-COD.													
New Mexico:						•		.					
Arizona:	0	0	0		<u> </u>	0			0		0		10
Utah: Salt Lake City.	1	1	1			0			0		0	11	20
Nevada: Reno	0	0	0	6		0		0	0	0	0	0	2
PACIFIC													
Washington: Seattle Spokane Tacama	3 0 1	0 0 3	1 2 2	4					1 0 0	010		2 1 0	
Oregon: Salem	0	0	1	0					0	0		12	
California: Los Angeles	12	14	2	1		0	2	4	3	3	0	96	270
Sacramento San Francisco.	1 6	1 2	0 0	0		0	1	2 4	2 1	² 2 0	0 0	5 16	20 141
		Men	ingococ eningiti	cus s	Letha cept	rgic nalit	en- is		Pella	agra	Poliom	yelitis (ii paralysis	nfantile)
Division, State, a	nd city	Cas	es Dea	ths	Cases	De	aths	С	ases	Deaths	Cases esti- mated expect- ancy	Cases	Deaths
NEW ENGLAN	(D	_	_			-							
Massachusetts: Boston Connecticut: Hartford			0	0	0 0		0 0		2 0	0	1 0	0 0	0
MIDDLE ATLAN	TIC												
New York: New York 3			1	0	0		0		0	0	8	1	0
Pennsylvania: Philadelphia Pittsburgh			1	0	0		0		1	0	1	5	0
EAST NORTH CEN	TRAL				-						_		-
Indiana: Indianapolis			7	4	0		0		0	0	0	0	0
Illinois: Chicago		-	2	1	0		0		Ø	0	1	0	0
Michigan:		-	,	2	1		0		0	0	0	2	•
Wisconsin: Racine			1	1	0		o		0	0	0	0	0
WEST NORTH CEN	TRAL												
Minnesota: Minneapolis		-	0	0	0		0		0	0	0	1	0
St. Paul Iowa:		-	0	0	0		0		0	0	0	1	U A
Missouri: Kansas City	·····]	1	0	0		0		1	1	0	0	0
t Nonregidents				·									

City reports for week ended July 23, 1932-Continued

⁴ Nonresidents. ³ Typhus fever, 4 cases: 1 case at New York City, N. Y.; 2 cases at Savannah, Ga.; and 1 case at Miami, Fla.

	Menin men	gococcus ngitis	Lethai ceph	rgic en- alitis	Pel	lagra	Polion	iyelitis (i paralysis	nfantile)
Division, State, and city	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases esti- mated expect- ancy	Cases	Deaths
BOUTH ATLANTIC									
Maryland: Baltimore District of Columbia:	1	1	1	0	0	0	1	0	o
Washington	0	0	1	1	1	1	0	0	0
Lynchburg	0	0	0	0	0	0	0	1	0
West Virginia: Charleston	0	0	0	0	0	0	0	1	0
South Carolina:	0	0	0	0	2		0	,	
Columbia	ŏ	ŏ	ŏ	ŏ	ŏ	ĭ	ŏ	Ô	ŏ
Brunswick	0	0	0	0	1	0	0	0	0
Savannah 3	0	0	0	0	1	0	0	0	1
Tampa	0	0	1	1	0	0	0	0	0
EAST SOUTH CENTRAL		j							
Tennessee: Memphis Alabama: Birmingham Mobile	0 0 0	0 0 0	0 0 0	0 0 0	1 0 1	0 0 0	0 0 0	ծ 1 0	0
WEST SOUTH CENTRAL									
Arkansas: Fort Smith Louisiana: New Orleans	0	0	0	0	0	0 1	0	1	0
Texas:	0	0	0	0	1	1	0	0	0
Houston San Antonio	0	1 0	0	0 0	0	0	0 0	0 1	0
MOUNTAIN									
New Mexico: Albuquerque	o	o	0	o	o	1	0	o	0
PACIFIC									
California: San Francisco	0	1	o	0	0	o	o	1	0

City reports for week ended July 23, 1932-Continued

¹ Typhus fever, 4 cases: 1 case at New York City, N. Y.; 2 cases at Savannah, Ga.; and 1 case at Miami, Fla.

The following table gives the rates per 100,000 population for 98 cities for the 5-week period ended July 23, 1932, compared with those for a like period ended July 25, 1931. The population figures used in computing the rates are estimated mid-year populations for 1931 and 1932, respectively, derived from the 1930 census. The 98 cities reporting cases have an estimated aggregate population of more than 34,000,000. The 91 cities reporting deaths have more than 32,400,000 estimated population.

Summary of weekly reports from cities, June 19 to July 23, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931 i

DIPHTHERIA CASE RATES	DIP	HTE	IERIA	CASE	RATES
-----------------------	-----	-----	-------	------	-------

	Week ended-										
	June	June	July	July	July	July	July	July	July	July	
	25,	27,	2,	4,	9,	11,	16,	18,	23,	25,	
	1932	1931	1932	1931	1932	1931	1932	1931	1932	1931	
	1 38	54	3 44	4 47	\$ 31	43	• 32	42	7 27	33	
New England	* 31	67	204	96	146	60	60	65	29	50	
	38	47	27	53	28	50	28	37	21	34	
East North Central	30	72	25	49	23	41	25	50	20	39	
	61	42	59	33	40	31	10 51	31	30	33	
South Atlantic.	27	45	³ 28	3 12	31	18	11 31	24	22	28	
East South Central	7 25	23	12	12	76	23	7 12	29	7 25	12	
West South Central	69	68	89	27	106	61	¹² 75	47	46	24	
Mountain	17	9	26	13 9	17	17	17	61	34	35	
Pacific	44	51	34	51	14 13	41	14 25	51	63	16	

MEASLES CASE RATES

				•	14	1	1	1		1
98 cities	2 517	563	3 371	4 384	3 241	316	¢ 240	181	7 144	13 3
New England Middle Atlantic	⁸ 1, 001 376 972 104 294 7 12 96	438 511 920 297 591 593 47	630 345 641 57 3154 0 53	402 284 768 140 311 352 24	• 561 188 409 74 104 7 0 33	351 311 527 103 259 117 27	395 214 419 10 86 11 43 7 6 12 24	317 144 316 61 107 117 17	247 143 239 55 29 70 23	209 111 214 34 83 106 14
Mountain Pacific	543 343	479 363	431 227	¹³ 215 149	267 14 156	$\begin{array}{c} 122 \\ 182 \end{array}$	155 14 135	122 12 3	112 80	174 125
	1		4						1	

SCARLET FEVER CASE RATES

98 cities	2 172	163	3 136	4 105	[↓] 84	79	¢ 86	70	7 63	53
New England Middle Atlantic East North Central South Atlantic East South Central West South Central Mountain	⁵ 343 211 208 61 90 7 19 53 155	233 195 240 78 93 65 30 96	230 168 167 63 358 29 36 52	188 135 122 31 355 47 41 1386	* 202 82 110 45 43 70 10 86	142 89 90 44 49 53 34 52	165 98 91 10 72 11 41 7 37 12 28 9	149 68 106 42 34 23 34 26	156 57 66 59 53 7 25 43 78 78	111 56 69 29 38 6 44 0
Pacific	10	Ð1	23	41	30	49	00	12		14

SMALLPOX CASE RATES

98 cities New England Middle Atlantic East North Central West North Central South Atlantic East South Central West South Central	2 2 8 0 1 6 0 7 12 0	8 0 1 5 19 12 18 30 70	3 2 0 1 2 3 0 6 3 17	4 6 0 8 10 3 0 23 24	5 1 9 0 0 2 0 7 6 0 43	2 2 0 1 4 4 6 10 0	61 0 0 10 10 70 12 26	3 0 4 4 0 0 7 0	7 1 0 0 2 0 7 0 0 0	
West South Central	0	30	3	24	0	10	12 0	7	0	0
Mountain	0	70	17	13 0	43	0	26	0	0	0
Pacific	15	6	10	14	14 5	8	14 13	22	11	20

See footnotes at end of table.

August 12, 1932

1706

Summary of weekly reports from cities, June 19 to July 23, 1932—Annual rates per 100,000 population, compared with rates for the corresponding period of 1931 1— Continued

TYPHOID FEVER CASE RATES

					Week e	ended				
	June 25, 1932	June 27, 1931	July 2, 1932	July 4, 1931	July 9, 1932	July 11, 1931	July 16, 1932	July 18, 1931	July 23, 1932	July 25, 1931
98 cities	2 10	10	\$ 13	4 10	\$ 12	14	• 13	13	7 21	16
New England Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain. Pacific.	⁸ 18 4 5 11 37 7 44 20 9 4	0 4 10 16 35 54 52 14	5 4 10 342 75 56 9 4	19 5 3 10 3 10 41 71 12 36 4	• 5 5 10 11 24 7 69 46 17 14 5	2 8 59 28 59 81 35 6	7 8 13 10 15 11 18 7 69 12 38 9 14 10	12 8 5 2 47 35 58 26 6	5 10 13 30 43 7 69 125 0 11	10 8 5 19 69 47 10 0 27

INFLUENZA DEATH RATES

91 cities	36	4	13	• 3	\$2	3	• 2	2	73	1
New England Middle Atlantic. East North Central West North Central South Atlantic. East South Central West South Central Mountain Pacific.	* 3 7 3 9 6 7 7 13 9 7	2260 6667 02	0 4 0 32 13 0 0 2	0 1 9 34 19 10 13 9 5	*0 2 3 0 7 7 7 3 9 140	2 4 2 0 4 6 7 0 0	7 1 2 10 0 11 6 7 0 9 14 0	0 0 4 3 4 0 3 0 0 0	2 4 1 3 2 70 13 0 0	0 1 2 0 2 0 3 0 2

PNEUMONIA DEATH RATES

91 cities	3 56	67	3 53	4 64	▶ 50	59	¢ 46	47	7 49	44
New England	* 65	60	62	36	³ 53	79	74	50	62	31
Middle Atlantic	61	76	61	67	63	59	46	63	49	55
East North Central	43	51	35	61	32	47	31	29	33	32
West North Central	52	38	64	77	35	88	19 48	71	70	53
South Atlantic	73	103	352	67	67	71	11 58	40	73	44
East South Central	7 55	140	31	83	7 27	51	7 20	45	1 34	45
West South Central	61	90	91	90	57	86	91	45	67	52
Mountain	60	35	60	13 72	43	61	52	35	78	17
Pacific	51	41	44	46	14 36	31	14 33	24	37	43

¹ The figures given in this table are rates per 100,000 population, annual basis, and not the number of cases reported. Populations used are estimated as of July 1, 1932 and 1931, respectively.
³ Hartford, Conn., and Covington, Ky., not included.
⁴ Columbia, S. C., not included.
⁴ Columbia, S. C., and Billings, Mont., not included.
⁶ St. Paul, Minn., Raleigh and Winston-Salem, N. C., Covington, Ky., New Orleans, La., and San Francisco, Calif., not included.
⁸ Barre, Vt., not included.
⁸ St. Paul, Minn., not included.
⁸ St. Paul, Minn., not included.
¹⁰ St. Paul, Minn., not included.
¹¹ St. Paul, Minn., not included.
¹¹ St. Paul, Minn., not included.
¹² St. Paul, Minn., not included.
¹³ St. Paul, Minn., not included.
¹⁴ St. Paul, Minn., not included.
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¹⁵ St. Paul, Minn., not included.
¹⁶ St. Paul, Minn., not included.
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¹⁷ St. Paul, Minn., not included.
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¹⁴ St. Paul, Minn., not included.
¹⁵ St. Paul, Minn., not included.
¹⁶ St. Paul, Minn., not included.

FOREIGN AND INSULAR

CANADA

Quebec Province—Communicable diseases—Week ended July 16, 1932.—The Bureau of Health of the Province of Quebec, Canada, reports cases of certain communicable diseases for the week ended July 16, 1932, as follows:

Disease	Cases	Disease	Cases
Chicken pox. Diphtheria Erysipelas German measles. Measles. Ophthalmia neonatorum.	31 21 3 1 49 1	Poliomyelitis	10 40 72 31 62

CUBA

Habana—Communicable diseases—Four weeks ended July 16, 1932.— During the four weeks ended July 16, 1932, certain communicable diseases were reported in Habana, Cuba, as follows:

Disease	Cases	Deaths	Disease	Cases	Death s
Chicken pox Diphtheria Leprosy Malaria	1 2 11	2 1 	Measles. Scarlet fever Tuberculosis. Typhoid fever	4 4 17 12	 2 4

JAMAICA

Communicable diseases—Four weeks ended July 16, 1932.—During the four weeks ended July 16, 1932, cases of certain communicable diseases were reported in Kingston, Jamaica, and in the island of Jamaica, outside of Kingston, as follows:

Disease	Kingston	Other localities	Disease	Kingston	Other localities
Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Leprosy	2 1 2	1 12 	Lethargic encephalitis Puerperal fever Scarlet fever Tuberculosis Typhoid fever	1 36 4	2 1 1 67 42

PUERTO RICO

San Juan—Communicable diseases—Four weeks ended July 16, 1932.—During the four weeks ended July 16, 1932, cases of certain communicable diseases were reported in San Juan, P. R., as follows:

Disease	Cases	Disease	Cases
Chicken pox	3	Measles	26
Diphtheria	6	Mumps	3
Influenza	18	Typhoid fever	1
Malaria	17	Whooping cough	4

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

From medical officers of the Public Health Service, American consuls, International Office of Public Hygiene, Pan American Sanitary Bureau, health section of the League of Nations, and other sources. The reports contained in the following tables must not be considered as complete or final as regards either the list of countries included or the figures for the particular countries for which reports are given.

CHOLERA

	0	indicates	cases; D	, deaths;	P, prese	nt]										
									Wee	k ende	Ļ					
Place	Jan. 10- Feb.6, 1932	Feb. 7- Mar. 5, 1932	Mar. 6- Apr.2, 1932	Apr. 3- 30, 1932		May, 1	932			June, 1	932			July, 1	932	
					7	14	21	*				ន	5	8	16	ឌ
China: Amoy. C											: 		15	149		
D Canton			3	1			1	-	6	9	330.2	308	ឌឌ្ឍ	883	3	ន
Dairen. C Hankow.	1	1		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		90			-	8	152	3 9	10	18 2	-	•
D Hong Kong				-		8						3	ຕ ເ ງີ (~ <u>~</u> 88	61	21
D Kwantung D Marson D Marson D									$\frac{1}{1}$			3	а ^ч	3 -	ø	-
											123	131 131 131	28	212	20 x0	
Newchwang C							•		S	٤	001	1	24.5		310	
Swatow . C					1	-		2-1	12	, 3 2	381	;= \$	88	121	29	
D Tientsin										8	16	8 a	. 91	6		
Bonduras ?. D India	100 01	A 826	4 052	6 205	1 407	NG1 1	860	078	859		ŝ	m	e e	~		
Bombay. C	5, 267	2,788	2, 358	3, 194	17. 17.	592	8	447	5					-		
Calcutta	133	1, 118	162	350	174	228	141	106	928	នរ	108	22	143	- 81		
Chittagong	<u></u> 201	5-ส	<u>i</u> a4	0.1	3	3		8	8	1	5	2	3	3		

Madras. C		3]						1	1	[]	-	
D Rangoon		3	°								-				
India (French): Chandernagor					I		®								
D Karikal	35	2			NO.		63	2			-				
D Pondicherry Territory	22		101												
Pondicherry.	9		N 1												
Indo-China (see also table below): Promocnh	3		-	-			-		-						
D Saigon and Cholon	101-	1	1	- 01 0			- 010	010		01-					
Japan: KobeC				1	1	-	۷	4	-		1	-			
Tokyo				11						-	8				
Pullippine Islands: Capiz Province	ន	នេះ													
Laguna Province	8	R						<u> </u>				-			
			- 01 0	N-1-				210	x 4						
D D			7-1	1							N .				
On vessols. Angora at Rangeon from Calcutta			1	1											
 B. S. Shanghai Maru at Kobe from Shanghal				1					1						
C .								—							
¹ Local unofficial reports included 159 deaths from cholers in	n Swatow	, China,	from Jur	ae 10 to 3	0, 1932.										



* Later information indicates that the case in San Pedro, Honduras, reported as cholers in the Public Health Reports, vo: 47, No. 32, p. 1670, was probably food poisoning.

FEVER —Continued
YELLOW
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SMALLPO:
, PLAGUE,
CHOLERA

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

	Å Å	Janu-	Febru-	×	larch, 19		V	pril, 193:		A	fay, 1932		June,	1932
F1808	ber, 1931	ary, 1982	ary, 1932	1-10	11-20	21-31	1-10	11-20	21-30	1-10	11-20	21-31	1-10	11-20
Indo-China (French) (see also table above): Annam ¹										8,	8	57		
Cambodia ¹	~~~~	12	4 10 4	90		~- ~~	4.0	1	8°	-510	96-	•	81 13	16
Cochin-China ¹	140				-81	40	0001	ŝ	8 8	, ∷ ∞	30 21		19	122
Q							~ ~							
¹ Reports incomplete.			A	LAGUE										
									Me	ak anded				

Canary Islands: Palma Island-Los Lanos C 8	Place I Argentina: Argentina: Cordoba Province D Cordoba Province D Belgian Congo D Belgian Sast Africa (see also table below): C Tanganylka. C Utanda D	Jan. Feb. 6, 1922 1932 1932 1932 19	Feb. 77. Mar. 5, 1932	Mar. 6- 1932 1932	Apr. 3- 30, 1932		May, 14	932 21 6	8 1 8 1		le, 1933	a ⁸⁸ 1	8	lulu 6		1632
		385	00	* *	88	1-	00 0		19	12	<u>।</u> ৪৯		$\frac{1}{11}$::		
	anary Islands: Palma Island—Los Lanos C						-	1		+	+			+	ł	
		~														

Ceylon: Colombo	ю. 	4.03		~~~		3	00 	5.00	~~ ~		00	5 2			::
Plague-infected rats				1	5	67	2	4					-	-	÷
Canas: Kwang Chow Wan			00 00												::
Shensi Province		А												+	:
Java	00														::
Tegal Jaya and Madura West Jaya	499	459 141	362 213	395 335 336	2	62	41 44	22 45	8						:.:
Ecuador (see table below).	008	139	213	287			41 43	45	8		+				ł
Egypt: Alexandria	5		10		1	010	- 98		-15	-	1				1
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Deni Suef.	N			37				-					$\frac{1}{1}$		• :
Gharbieh				80				8						$\frac{1}{1}$::
D Ci	1		3						-				$\frac{1}{1}$::
D Tanta			3										$\frac{11}{11}$		
D Hawali Territory: Hawakua- Hamakua-											<u> </u>			<u> </u>	1
Нопокаа О		0101 													::
Plague-infected rats		1						1							
Maui Island— Makawao ¹															1
Plague-infected rats	C	8 503 4 1	467 0	5 107	684	474	256 256	133							
Bassein	3, 971	4, 970	5, 543	3, 219	502 2	360	203 192	6	8		-		8		
Bombay		4.10	r- 00	46		5	-		8		-		-		
I Plague-infected rats	0 	109	111	122		22		°°		6	n I		2		
1 Including placing in the United States and its possessions.															

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

PLAGUE 1-Continued

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

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									M	ek end	-pə					
Flace	Jan. 10- Feb. 6,	Feb. 7- Mar. 5,	Mar. 6- Apr. 2,	Apr. 3- 30, 1932		May,	1932			une, 11	32			luly, 19	932	
	7881	1832	1932		~	14	51	8	4	11	18	52	3	6	16	ន
India-Continued. Madras.				;						<u> </u>						
D Madras Presidency	2,951	74 74	158 86	84	31 8	10.44	9	40	<u>8</u> 80			7 <u>ت</u> ع				
Rungoon	1	0 X M	4 4 30	667		6						7	000	61		
Iraq: Bughdad	20											-				-
Morceco			1											¢,		
Southwest Africa. ⁴ Syrus: Beat Africa. ⁴ Durois Osouta Africa: Orange Free State.	ч-т А	· A	- 00 - D4	2							-		6			-
D United States: California—Los Angeles—Plague-infected rats On vessel: Steamaing Columbia, at Naples from Barcelona—Plague-in-			9	I	5					-						
4 n finnortad rasa 1500 rasas of nlacris with 15 Acethe wa	-			44000 6								- N				
איז			TRICCIES.	ם, סטענוו	West A	ITICs, L	8 M G	pr. 30, 11	152.	auuun		leasur	NALL 29		CB.EGI.	

	1932	April, 1932	May, 1932	June, 1932	Place	Janu- ary, 1932	Febru- ary, 1932	March, 1932	April, 1932	May, 1932	June, 1982
B. East Africa (see also table ve): Table ve):	g H 8322544000025	422 402 117 211 211 211 211 211 211 21	I 9 81		Peru. Department- Canete Lambayeque Libertad. Dina. Lima. Lima. Dakar e Parat e Por Por Por Por Por Por Por Por Por Por	1 3 00 1 3 00 1 3 1 3 1 1 1 1 1 1 1 1 1	88	0.00		0,000 H H H H	

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

SMALLPOX

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

	Jan.	Feb.	Mar.		_				Week	ended	,					1
Place	9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9	7- Mar.	Apr.,2	Apr. 3-30, 1932		May	1932			June,	932			July, 19	32	
	1932	1932	1932		2	14	21	8	4	11	18	25	2	- 0	9	ន
Aden.	6		1													
Algeria: Algiers C										П	-				_	
Constantine Department				~ ~	1		1									
Southern Territories		2		'												
Porto Alegre (alastrim)C	*	19	NO 7	80	5	3										
Santos British East Africa: Tanganyika	22	5	P P		62	11			19						6	
British South Africa: Northarn Phodaels	► ¥	21							=							
Southern Rhodesia			4	7											-	
British Columbia	52	11	6								_	-				
Manitoba. C	40	6	8	1											$\frac{1}{1}$	
Outario	9	51 7	4	9	-			8						-		
Quebec.		30										1				
Saskatchewan Chine.	33	8	9	30		1		9				67	-	.	-	
Alloy	183	121	55	11	~~~		~~~	~~~								ļ
Canton	51	* 4.	S 62 '	32.	7 <u>6</u> 7	6	0.10	0	-		3	79	-			
Foochow	<u>а</u> ,	- 64 .	~ <u>ዋ</u> י	- A '	-	P.		d		P		d.				
Hankow	5.0		9	~	1	-	'n									
Hong Kong	19	58	29 28 28	88		39	1-01	-0	44	50	07 -				-	

Manchuria. Dairen	-	11	1	16	80	1 -	_	1-			2	3		_		+	ł
			-		0	1		-			67	-	_		-	-	
Shanohai		63	167	102	6	16	9	20	9	ŝ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-					1
D A		62	67	45	35	9	5		61	-	61	-	-	+			
Tientsin D		-	-01-	1 88	5	-				6							
Chosen (see table below). Dahomey					ю.	5					15		6-				1
Dutch East Indies				-	-						•		•		9		
Egypt: Alexandria		•					1	-				-					~~~
		•	2	8.6	4	-			-								
Franca France (see table below). Germany: Aix-la-Chapelle Gold Coast (see table below).									-								
Great Britian: England and WalesC London and Great Towns		227 100	258 136 203	273 129 236	315 137 257	68 141 59	2689	56 47 56	888 888	349 379	33	32 22	8 2 3	នឧត	ននន	53 52 53 52	
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Celba Puerto Castilla. Prestretos nas	000	1		5	CI 4			1	Р			61				-	
Telstream (Trujillo.				8	2				-								
Xndia	14	576 970	9, 709 1, 896	12,040	13, 716 2, 895	4, 230	3, 388	2, 771 676	2, 879 815	3,418 812							
Bassein		m															
Bombay	000	5 ⁷⁹	នខន្ម	21 150	82 88 8 0 88	997 1	3.4 5	2-2	16 ° 17	15 4 7	405	5.23	245	0 2 2 0 0	2000 1000		
Chittagong	<u> </u> 201	15	54	115	66	12	80	16	01	17	14	80	30	ອ ອ	2		
Cochin	<u> </u> 200		5		-8			·			4						
Naracui		9 9	3 ∞	n 00	30	"	201	°;	r 00 j	(-		, (•			
Madras.	DO	0.6	15	18	3=	22	0 4	34	<u>ട</u>	~	20 00	60		20 CT	 20 00		

133121°---32-----3

¹ 590 cases of smallpox with 15 deaths were reported in Honduras from July, 1931, to Feb. 16, 1932,

1715

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

SMALLPOX-Continued

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

	Jan.	Feb.	Mar.						Week	-popue						
Place	ġ.	Mar.	Åpr.	A 9 200		May,	1932			June, 1	932			July, 19	32	
	1932	1932	1932	7007	7	14	21	ន	4	=	18	ន	2	0	9	8
India-Continued.	4	य -		1				¢		<u>ب</u>						!
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Tuttcorin	380	88 89 89 10 10	410	8 0 00	240	=	•	N	•	•		N	•	-		
Vizagaptam	1	· 69 - 44	13 73	21	6		-	4		6			-		+	1
Pondicherry Territory	32 1	488	°88	222	01 00 M	011010	-88	823			00		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Indo-China (see also table below): Prompenh	- 112	6 .55	512	113	12	001	1 00	101		~~~~			00		646	
Iraq: Baghdad	3 99	8 ***	ຼື ສ	10 10 10	3 40		- 9	•	0 ¥1	0 01	N 600	, «	•		•	-
Basta	2 7 7	*0	91	2 4 4	11	***		12	001-	* *	N 69 m		İП		-	
lvory Coast (see table below). Japan: Kobe		1	21				~	<u>а</u> ,								
Nagasaki Osaka Prefecture ² .			-	8	34	4.6	4		1	-	-					
USBARA Traiwan Yokohama	35	8 <u>8</u> 82	1	-		1										
Mexico (see also table below): Chihuahua. D		90	1				1			ъ						
Jurango Jurango Jusco City and surrounding territory		8	9	-98	69	19	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	6	4		69	2	0	04		
Monterrey G	-		1	N C1	1	-	Π	1		Ī	Ħ	Π	Π	Π	Ħ	

28, 1932.	Sierra Leone.	
r. 1 to May	reported in	I
i, from Ma	aths, were	
ture, Japaı	with 11 de	
saka Prefec	of smallpox	I
orted in O	, 814 cases (
ax were rep	ne 11, 1932	
of smallpc	ar. 6 to Ju	ted case.
264 cases	From M.	A suspec

Saltillo	-				-	-	-	1	2	2	-		1	2	1 1		
San Luis Potosi		-	6	~	6			•	- 1	1	-						
Tornann		2	10		1 01	•	-	-		-		-				_	
		0	1 07	10			- 65	•	4	4	•	•	-		_	-	
Morocco (see table below).		•	,	•	,)										
Nigeria		217	46	750	116		939		104			_			_		
	_	120	01	111	19		316		11				_				
Palestine							-										1
Poland C	-		_				-		_	-	-						1
Portugal:	<u> </u>																
Lisbon	-	8	20	8	26	10	5	80	9	61	ŝ	8	12	-1	5		ł
Oporto. C		ŝ	14	14	12	ŝ	5	80	œ	4	6	œ	61	80	-	10	1
Salvador. C			33	<u>0</u>										+		1	ł
Sarawak	1										-						1
Siam	-	-		~					-	œ	-		-				1
Sierra Leone ³	_			-						4	-						
Straits Sattlements		4	e	-													
		•	,													_	
Guilen (Anale Fauntien)			0	4 4							-	-					
O			0-	*	0						4	4	•	<u> </u>	<u> </u>		
Gundlan, Malana		- 0	-											<u> </u>		-	
	<u> </u>	<u>י</u>									-	-		<u> </u>	<u> </u>	-	
Syria (see table below).				,													
Tunisia: Tunis.				-							-			-	!	1	ļ
Turkey (see also table below): Istanbul C			-		1		-						; 01			1	
Union of South Africa:																	
Care Province					P	۵	٩	۵.	Р.	<u>а</u>							
Orange Free State		_			, d		1	(
Transvaal				a	, д.	Р		d	4	ч	2		_	_		-	
On tracele	<u>;</u>			•	(•		4	•		,				_		
On resolution O O Duration Count of Valrahome from Change																	
D. D. Cressington Court at a okomania from Suarig-		-			_												
)	-												<u> </u>	-	-	
S. S. Bouington Court at a okonama from Shang-		•															
	0			-							-				-	:	
S. S. Victoria City at Brisbane from Shanghai C	2	-											-	-	<u> </u>	<u>:</u>	
o, b. Fraueniels at buez irom Calcutta				-								-	1	-	<u> </u>	<u> </u>	
S. S. Uwajima Maru at Usaka Irom Shangnal C		-													<u> </u>	<u> </u>	
S. S. Hong Aneng at Singapore from Amoy, Via		•														_	
Swatow and Hong Kong		- r	-									-			<u> </u>		
S. S. Hai Ning and S. S. Solviken at Hong Kong.	20										1	+				-	
S. S. Merkara at Aden from Colombo (; 71													-	+	:
S. S. Tjisadane at Hong Kong from Shanghai and																	
Amoy.	0	ן ה									-			1		$\frac{1}{1}$	ł
S. S. Poafung at Shanghai	- 5	- -									-				-	+	i
S. S. Rajula at Penang from Negapatam.		ן הי															
S. S. MacGillivary at Suez from Rangoon (0			-													
S. S. Tainni at Southarmton from New Zealand				Ţ								-				_	
S. C. Glanhank at Shar from Adan				•											_		
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D. D. T. LUSURING AL SUCCESSION TO THOM AND	<u> </u>									•					_	_	ļ

FEVER-Continued
ND YELLOW
S FEVER, A
X, TYPHUS
SMALLPO)
PLAGUE,
CHOLERA,

SMALLPOX-Continued [C indicates cases; D, deaths; P, present]

			Jar	uary.	Febr	M 	arch.		April, 1932			May, 19	2		June,	1932	
0001J				932	ary, 19	32	832	1-10	11-20	21-30	1-10	11-20	21-	31	1-10	11-2(
dold Coast				~										"			:
Indo-China (see also table above) Ivory Coart			0000	300 148 148	50	83	727 342	175 80	247 97	146 146	211 46	6.00			225		130
Syria; Beirut				5				-		1					1		
Place	Dc- Dc- ber 1931	Janu- ary, 1932	Feb- ru- 1932	March, 1932	A pril, 1932	May, 1932			Place			De- De- ber, 1931	Ianu- I Janu- Bry, 1932	B32 - P	larch, Ap 1932	821, M	32,
ChosenD	-	1	000	90 90	55 55	35	Mexic	co (sec als	o table abc)ve)	d D	423	8	38	306	6	
France. C C C C C C C C C C C C C C C C C C C	1	5 1		1	80		Turk	ey (see als	o table ab	(0.40	PO		31	27 27	8		

TYPHUS FEVER

			;						5	eek ei	ded-						
Place	Jan. Feb.	Feb. 7- Mar.	Apr.		April	, 1962			May,	1932			June,	1932		July,	1832
	70AT '0	7007 10	70A1 '7	6	10	33	R	~	14	31	ห	*	:	18	2.5	3	6
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Origi Bulgaria	44 6	66 6	-40	15	600	54	60	9	1-9	16	4-10	0.41	2	3	3		
Chile: Antologasta	1		1							-			-				
China: Hankow Swatow		2	2						-		-			-			
Tientsin. C Chosen (see table below). C Colonabia: Call. D		1							-								
Czecnosovakta (soe table below). Egyt. ZabrandriaC		10	97	ŝ	5	~	-				-	2	8		-		
Dakahlia Dakahlia Gharbieh		12 19	2				2 10			69							
D Port Said		333	929	112	40	4:	° 87	27	8	- %	99	139					
Greece (see table below). Irish Free Stato: Roscommon County- Leitrim_LeitrimC					•	1	•		•								
D Roscommon. C										-		-					
Latvia (see table below). Lithuania (see table below). Mexico City, including municipalities in Federal Dis- trict	я°	នះ		، دی	8		ŝ	6		¢,		5	4			eo -	- CJ
San Luis Potosi		1 - .		<u> </u>		•				Π	•	Ī	•		-	•	1

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

TYPHUS FEVER-Continued

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

				Jan.	Feb.	Mur.						We	ek end	ed						. 1
Place				Feb.	7- Mar.	Apr.		April.	1932			fay, 19	32		้า	Inc, 19	32	Jul	y, 1932	1 1
				, 1032	5, 1932	2, 1932	 a	16	ន	02		14		20	-		S 2	? 1	6	
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Palestine			<u></u> סט	3	0-	Ð	-				-				2		1	1		
Paraguay: Asuncion Persia			<u>до</u>		-									123	69			<u> </u>		
Poland			<u>,</u> СС	265	215	255	38	95	119	115	02	106	106	4 80		1	5	3	00	.0
Doutined!			n	10	21	ន	5	10	Ξ	13	1-	4	5	6	ŝ	4	-	9	~	÷
Lisbon			00		-		9								75	2				:
Rumania			00 ; ;	264	296	270	28	62	55	46	°5	60	3	09	1 0					: :
Tunisia: Tunis			204 1	1	87.	82,	« يا .	60	20 ²	192	8 9 <u>2</u>	15.8	13	~-	13 .	6	9			: :
Turkey (see table below). Union of Socialist Soviet Republics (see t	table belov	w).	<u>.</u>		co.	x	4				<u>+</u>		:					<u>.</u>	<u> </u>	:
Club of South Antica. Cape Province.				Ч	<u>с,</u> р	Ъ	Ч	4	а.с	6 6	<u>م</u> م	4	ч	4		-				: :
Orange Free State			ວິວເ : :	<u>م</u> م	- 64 6	Ρ	Р	Р	-6	- P-	- - F4	4	4							: :
Venezuela: Caracas (see table below). Yugoslavia (see table below).			 נ	ц	ц										 4)					: 1
Place	ber, Ja ber, ar 1931 19	nu- F 1y. 322	ebru- ary, 1932	March, 1932	April, 1932	May, 1932			Ы	BCB			Decem ber, 1931	Jant ary 1933	E E	oru- 1	farch, 1932	April, 1832	May 1932	
Chosen: Sooul			5	4			T'ur	key.				04 	5		-	ี่ ส	9	1		1 :
Czechoslovakia	10		-		1	5	- Cai	s Jo no	ocialist	Sovie	t Repu	م ف		0 	ہ م	1 10	0 70F			:
Greece.	- - - -	4	4	7	1			ezuela:	Carac	8.5			1, 10	°	2012		on , uu	8		: :2
Latvia Lithuania	-28	12	01	32	25	13	n X	COSIBVIS					.		= :	8 N N	01	3		5 ° C
D	-	3	ŝ	3	20	-														

YELLOW FEVER

	Jan.	Feb.	Mar.						-	Veek en	ded						
Place	ς θ θ θ θ θ	7- Mar. 5,	Apr.		A pril,	1932		ž	ay, 19	2		Jun	c, 1932		Ju	ly, 193	8
	1932	1932	1932	6	16	R	30		4	8	4	11	18	25	2	8	ñ
Bolivia ¹ Brazil: Bahia State-Esplan¢daC Ceara State Espirito Santo State		1	88		<u>е</u>	<u>م</u>		<u>е</u>									
Pernambuco State.		1													1		
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¹ Indirect reports show cases suspected to have been yellow fever in Southern Bollvia during April, 1932.