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NO. 39

CURRENT PREVALENCE OF COMMUNICABLE DISEASES IN THE UNITED STATES 1

August 9-September 5, 1936

Poliomyelitis.—Poliomyelitis still continued above normal in the East South Central region; for the 4 weeks ended September 5, Tennessee reported 85 cases; Alabama, 64; Mississippi, 54; and Kentucky, 22. Other regions reported about the normal seasonal increase that might be expected. In preceding years the summer rise of poliomyelitis has usually reached its peak during this period.

The total number of cases reported for the country as a whole was 626. In 1935 there were 3,625 cases reported for this period and in 1934 the number of cases totaled 1,251. In 1935 an epidemic that began in South Carolina and spread into other States along the Atlantic coast reached its peak during this period, as did also an epidemic in 1934 that began in California and extended into other western States. In 1933 a minor epidemic was in progress at this time in the North Atlantic States and a total of 1,413 cases was reported, while a more severe epidemic in those same regions in 1931 was mostly responsible for a total of approximately 5,000 cases during this period. In 1932 the number of reported cases totaled 986, the highest incidence occurring in States along the Atlantic coast.

Meningococcus meningitis.—The reported incidence of meningococcus meningitis for the current period was 220 cases, a decline of about 25 percent from the preceding 4-week period. The incidence was below that for the corresponding period in 1935, when 268 cases were reported. For this period in 1934, 1933, and 1932 the numbers of cases totaled 129, 129, and 160, respectively. The South Central and Mountain and Pacific regions reported slight increases over last year, but in all other regions the disease was less prevalent during the current period than last year.

Typhoid fever.—The number of cases of typhoid fever reported for the current 4-week period was 2,355, the lowest incidence recorded

¹ From the Office of Statistical Investigations, U. S. Public Health Service. These summaries include only the eight important communicable diseases for which the Public Health Service receives weekly telegraphic reports from the State Health officers. The number of States included for the various diseases are as follows: Typhoid fever, 48; poliomyelitis, 48; meningococcus meningitis, 48; smallpox, 48; measles, 47; diphtheria, 48; scarlet fever, 48; influenza, 44 States and New York City. The District of Columbia is counted as a State in these reports.

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for this period in the 8 years for which these data are available. All regions except the Middle Atlantic reported a decrease from last year's figures. In the East North Central, South Atlantic, and South Central regions the incidence was the lowest in recent years, while in other regions it fell slightly below the average for several preceding years. Pennsylvania, with 117 cases as compared with 81 last year, and New Jersey, with 59 as compared with 37, seemed mostly responsible for a more than 20 percent increase over last year in the Middle Atlantic region.

Scarlet fever.—The incidence of scarlet fever continued to decline. The number of cases (3,472) reported for the 4 weeks ended September 5 represented more than 15 percent decrease from the average incidence for this period in the 5 preceding years. In the North Atlantic and North Central regions the incidence was about normal, while in the South Atlantic and South Central regions it was the lowest for this period in recent years. In the Mountain and Pacific regions the number of cases was about 15 percent below that for last year, but in both years the incidence was somewhat above the seasonal expectancy.

Measles.—The usual seasonal decline of measles continued through the 4 weeks ended September 5. The number of cases (1,861) was about 15 percent below the average incidence for the relatively normal measles years of 1929–33, inclusive. For this period in 1935 and 1934 the number of cases totaled 2,909 and 3,135, respectively.

Influenza.—For the current 4-week period 834 cases of influenza were reported, as compared with 1,257, 1,515, and 1,301 for the corresponding period in the years 1935, 1934, and 1933, respectively. The situation was very favorable in all sections of the country.

Diphtheria.—The comparison of current reports of diphtheria with those for previous years continued to be favorable. The number of cases reported for the 4 weeks ended September 5 was 1,393, as compared with 2,058, 1,975, and 2,692 for the corresponding period in the years 1935, 1934, and 1933, respectively. In the Mountain and Pacific regions the incidence closely approximated that of last year, while in all other regions it was considerably below that of last year. For the country as a whole the current incidence was the lowest in the 8 years for which these data are available.

Smallpox.—For the country as a whole the incidence of smallpox still continued to be the highest in recent years. The reported cases for the current period total 141 as against 117, 70, and 83 for the corresponding period in the 3 preceding years, regressively. The incidence was still confined to the North Central and Mountain and Pacific regions. Of the total number of cases, Montana reported 58, Minnesota, 11; Wyoming, 10; Washington and Iowa, 9 each. No cases were reported from States along the Atlantic coast and only 2 from the South Central regions.

Mortality, all causes.—The average mortality rate from all causes in large cities for the 4 weeks ended September 5, as reported by the Bureau of the Census, was 10.1 per 1,000 inhabitants (annual basis). The rates for the corresponding period in 1935, 1934, and 1933 were 9.6, 9.7, and 9.3, respectively.

The higher death rates during the first 3 weeks of the period, 10.2, 10.3, and 10.3, were apparently due to the heat. During this period, cities in the South Central regions and those in the southern part of the East North Central region showed the largest excesses in mortality; during the more severe heat wave of the preceding 4-week period cities in the northern part of North Central regions were most affected. For a few cities the rates during the current period were more than double those of last year, and in a very considerable number they were as much as 50 percent above those of last year. During the last week of the period the rate dropped to 9.6, which was about normal.

ACUTE RESPONSE OF GUINEA PIGS TO VAPORS OF SOME NEW COMMERCIAL ORGANIC COMPOUNDS

XIII. METHYL FORMATE 1

By H. H. Schrenk, W. P. Yant, John Chornyak, and F. A. Patty

This report on the acute response of guinea pigs to methyl formate vapor is the thirteenth of a series of similar reports (1) which deal with studies pertinent to establishing a criterion of the toxicity of some chemical products which have recently become commercially available for industrial application.

The investigation of methyl formate was undertaken at the request of the General Electric Co. and was conducted jointly with the United States Bureau of Mines at its Pittsburgh Experiment Station.

SCOPE OF WORK

The scope of the work included a study of the toxicity and physiological response of guinea pigs exposed to vapors of methyl formate. Only acute effects as produced by a single exposure were studied. The experiments were planned to cover a range of concentrations

¹ Contribution from the Pittsburgh Experiment Station, U. S. Bureau of Mines, Pittsburgh, Pa. Published by permission of the Director, U. S. Bureau of Mines. Work completed on manuscript September 23, 1935.

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which would produce but slight or no response, moderate response and serious response.

CHEMICAL AND PHYSICAL PROPERTIES

The methyl formate used was bought under specifications for refrigeration use, which required 95 percent to distill between 31.5° and 32.2°C., and the remainder between 32.2° and 33.5° C. Methyl formate, HCOOCH₃, is a colorless liquid with an ethereal odor. The boiling point of the pure compound is 31.8° C.; the specific gravity is 0.975, 20°/4° C.; and vapor pressure 476.4 mm of mercury at 20° C.

USE OF METHYL FORMATE

Methyl formate is used in fumigants. It has also been considered for use as a high boiling refrigerant for household appliances. The extent of its present use for these purposes is not known to the authors

TEST APPARATUS

The apparatus for preparing methyl formate vapor-air mixtures which were within or near the inflammable range was the same as that described in a previous report on ethylene dichloride (1), except that the constant flow of liquid methyl formate was obtained with a floating siphon similar to that described by Sullivan (2). For concentrations safely below the lower limit of inflammability the 1,000-cubic-foot chamber described in a previous report (3) was used.

COMPUTATION AND ANALYSIS OF VAPOR-AIR MIXTURES

The concentrations of vapor in air were estimated for control purpose in creating experimental conditions by computation from the quantity of air flowing through the meter and the quantity of liquid entering the vaporizing system. In those experiments performed in a static atmosphere in the 1,000-cubic-foot chamber the calculations were based on amount of liquid vaporized and the volume of the chamber. The computed values were frequently checked by analysis, using air-equilibrated activated charcoal to adsorb the gas from a measured volume of the vapor-air mixture and determining the gain in weight. It was, however, necessary in this case to modify the usual adsorption train by the removal of the soda lime, as the latter caused hydrolysis of the methyl formate.

PROCEDURE FOR EXPOSING ANIMALS

All exposures to a given test condition were made with groups of six guinea pigs. The small chamber used for dealing with explosive mixtures accommodated only one group of six, but as many as four groups were simultaneously exposed in the large chamber. The individual groups were removed at predetermined intervals.

DESCRIPTION AND CARE OF ANIMALS

The description and care of animals were the same as described in the report on ethylene dichloride (1).

RESULTS OF TESTS

This report presents the summarized results pertinent to signs or symptoms, fatality, and gross pathology.

OBJECTIVE SYMPTOMS

Control animals.—No signs or symptoms were exhibited by the control guinea pigs taken at random from the stock animals used in these tests. No deaths occurred.

Exposed animals.—The signs or symptoms exhibited by animals exposed to methyl formate vapor in the order of their occurrence were as follows: Nasal and eye irritation, manifested by rubbing the nose with the forepaws and squinting; lacrimation; retching movements; static and motor ataxia; marked respiratory effects; apparent unconsciousness; incoordination of extremities; and death. Table 1 gives the average time necessary to produce these symptoms by various concentrations of methyl formate vapor in air. The figures given indicate the average time for occurrence of the symptom excepting those in parentheses which indicate that the particular symptom did not occur in the maximum period of exposure as given.

Table 1.—Signs and symptoms produced in guinea pigs exposed to vapors of methyl formate

·	Concentration of vapor in percent by volume								
Type of symptom	5.0	2.5	1.0	0.35	0.15				
	Duration of exposure, minutes								
Nasal irritation (rubbing nose)	1-2 2-3	2	2	3-10	5 (490)				
Eye irritation (squinting) Lacrimation Retching, spasmodic contraction of abdominal wall,	2-3	2-3 2-3	2-3 2-3	1 (480)	1 (480) 1 (480)				
head lifted, mouth open	4-5	4-10	6–15	10-30	1 (480)				
Slow, deep respiration	15-20	20-40	75-120	1 (480)	1 (480)				
Incoordination	10-20	30-40	120-135	1 (480)	1 (480)				
Narcosis	20-25	40-50	120-150	1 (480)	1 (480)				
Uncoordinated scratching movement of extremities.	20-25	50-70	120-150	1 (480)	1 (480)				
Death	25-35	50-72	150-175	1 (480)	1 (480)				

¹ Not observed during maximum exposure as given in parentheses.

The only abnormal sign observed during or following an exposure of 480 minutes to 0.15 percent methyl formate vapor in air was nasal irritation as evidenced by rubbing nose. An exposure of 480 minutes to 0.35 percent produced both nasal and eye irritation, and retching, but no further manifestations. Exposure to 1 percent methyl formate vapor produced nasal irritation in 2 minutes; eye irritation and

lacrimation in 2 to 3 minutes; retching in 6 to 15 minutes; respiratory changes in 75 to 120 minutes; incoordination in 120 to 135 minutes; narcosis and uncoordinated movements of extremities in 120 to 150 minutes; and death in 150 to 175 minutes. The time for the occurrence of these signs or symptoms, with the exception of nasal and eye irritation and lacrimation, decreased with increase in concentration, and death was produced in 50 to 72 minutes' exposure to 2.5 percent, and in 25 to 35 minutes' exposure to 5 percent methyl formate vapor in air.

GROSS PATHOLOGY

Control animals.—The 15 control animals killed for autopsy exhibited no significant gross pathology.

Exposed animals.—Exposures of 25 to 35 minutes to 5 percent vapor, 50 to 72 minutes to 2.5 percent vapor, and 150 to 175 minutes to 1 percent vapor produced death at the end of exposure (see fig. 1). The gross pathological findings in these animals were intense congestion, emphysema, and edema of the lungs. A frothy, bloody exudate was present on cut surface of the lung. The kidneys and liver were deep red to purple in color, and the cut section was red and dripped blood. The meningeal vessels of the brain and surface vessels of the adrenals were congested. The finest radicles, which are not readily observed in controls, were visible.

Exposure of 10 minutes to 5 percent, 30 minutes to 2.5 percent, 30 and 60 minutes to 1.0 percent, and 180 and 480 minutes to 0.35 percent did not produce death (see fig. 1). A mild degree of gross pathology was found in some of the animals killed immediately after exposure. The findings were principally slight congestion, emphysema, and edema of the lungs, slight hyperemia of the liver and kidneys, and a slight congestion of the surface vessels of the brain and adrenals. These findings were absent in animals of the same groups killed 4 to 10 days following exposure, with the exception of the group exposed for 10 minutes to 5 percent; a slight congestion and edema of the lungs was noted in animals of this group killed 4 days after exposure and areas of consolidation in the lungs and hyperemia of the other organs in those killed 8 days following the exposure.

No gross pathological changes were found in animals exposed for 30 and 60 minutes to 0.35 percent and 180 minutes and 480 minutes to 0.15 percent vapor, either immediately after exposure or after 4 and 8 days. Also no deaths occurred.

SUMMARY OF FATALITY AHD PHYSIOLOGICAL RESPONSE

Figure 1 shows graphically the fatality and summary of the response of guinea pigs exposed to methyl formate vapor in air. The results of each experiment are designated by a symbol which represents one of four degrees of severity. The symbols represent the most severe response for a majority or at least 3 of a group of 6 animals exposed to a given condition. The response of none of the animals deviated markedly from that which is representative of the group. In addition to representing the response of each group by symbols, the symbols have been separated into three general fields or zones of probable response.

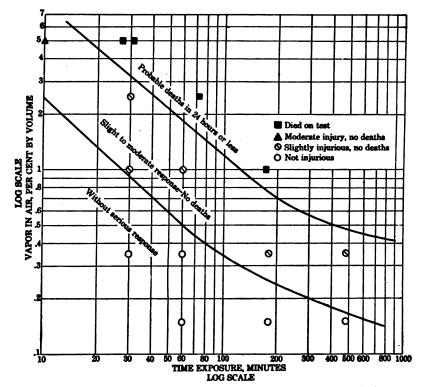


FIGURE 1.—Acute effects of exposure of guinea pigs to methyl formate vapor in air

Table 2 gives concentrations obtained by direct experiment or extrapolated from table 1 and figure 1 which produce the degrees of response generally reported for noxious gases. These data may be compared with toxicological data for other compounds (1, 4, 5, 6, 7).

Table 2.—Acute effects of exposure of guinea pigs to methyl formate vapor in air

Acute effects after various periods of exposure	Concentration, percent by volume in air
Kills in 20 to 30 minutes. Dangerous to life in 30 to 60 minutes. Maximum amount for 60 minutes without serious disturbance. Maximum amount for several hours without serious disturbance.	5.0 1.5-2.5 .5 .1520

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CAUSE OF DEATH DURING EXPOSURE

It is believed that death was due primarily to irritation of the lungs. This is evidenced by the finding of emphysema, congestion, and edema of the lungs. There was slight congestion of the brain, probably indicative of a narcotic action. However, this action was apparently less important than the lung irritation.

WARNING PROPERTIES AND HAZARDS OF ACUTE POISONING

Men exposed for 1 minute to 0.15 percent vapor in air noticed the pleasant ethereal odor of methyl formate, but experienced no nasal or eye irritation or other signs or symptoms. While the odor of methyl formate is distinct and noticeable in concentrations which are relatively safe from the standpoint of producing acute poisoning, owing to its pleasant nature and the occurrence of olfactory fatigue it is doubtful whether the odor of methyl formate will serve as an effective warning of harmful conditions of exposure.

WARNING PROPERTIES AND EXPLOSION HAZARDS

The lower limit of inflammability of methyl formate is about 5 percent (8). This concentration is readily-detectable by odor and irritation properties.

COMPARISON WITH TOXICITY REPORTED IN THE LITERATURE

Little published information on the toxicity of methyl formate has come to the attention of the authors. Chlopin (9) includes it in a table of coefficients of the relative toxicities of gases and vapors on the scale chlorine=1. On that basis a coefficient of 2.6 is assigned methyl ester of formic acid (methyl formate). Using the figures given in various reports (4, 5, 6, 7) for the toxicity of chlorine, it would appear that the toxicity for methyl formate as indicated by Chlopin is many times greater than that found in the experimental work performed by the Bureau of Mines. The reason for this disagreement is not apparent. Flury and Zernik (7), in their book "Schädliche Gase", report results obtained using a 90 to 95 percent Their results are similar to those obtained by the preparation. authors. Duquénois and Revel (10) have reported a number of cases of poisoning from using a mixture of methyl and ethyl formates and methyl and ethyl acetates, and also results obtained using frogs as experimental animals. As no concentrations are given, comparison with their work cannot be made. The Underwriters' Laboratories (11) also conducted experiments on the acute toxicity of methyl formate. They used concentrations of 0.9 to 1 percent and 2 to 2.5 percent. No deaths were produced in their experiments by an

exposure of 120 minutes to 1 percent although the animals were severely affected; in the Bureau of Mines tests death occurred after 150 to 172 minutes. An exposure to 2 to 2.5 percent for 60 minutes (Underwriters' Laboratories) caused the death of 2 out of 3 guinea pigs within 14 hours after termination of exposure, and death of 1 out of 3 guinea pigs within 14 hours after termination of a 120 minute exposure; in the Bureau experiments death was produced during exposure to 2.5 percent in from 50 to 72 minutes. Although there are some differences in the time recorded for the appearance of some of the symptoms, especially incoordination (probably due to a different interpretation of this response), data on other symptoms and the time for the occurrence of death agree satisfactorily.

SUMMARY AND CONCLUSIONS

The acute physiological response of guinea pigs exposed to air containing methyl formate vapor was determined. The concentrations of vapor and periods of exposure range from those which produce death in a few minutes to those which produce no apparent effect after several hours. The signs of response and the fatality and gross pathology are given.

- 1. In their order of occurrence the symptoms produced in guinea pigs were nose and eye irritation, retching movement, incoordination, narcosis accompanied by uncoordinated movements of the extremities, and death.
- 2. Methyl formate vapor was found to be irritating to the lungs. Congestion and edema were the most constant and prominent findings after exposure which resulted in death. A hyperemia of the liver and kidneys and congestion of the surface vessels of the brain and adrenals usually accompanied the lung changes. Lung irritation was frequently found immediately after exposure which did not cause death, but was absent in animals examined 4 to 10 days following exposure.
- 3. The summarized physiological responses for a single exposure are as follows: 5 percent kills in 20 to 30 minutes, 1.5 to 2.5 percent is dangerous in 30 to 60 minutes, 0.5 percent is considered the maximum amount for 60 minutes' exposure without serious disturbances, and 0.15 to 0.20 percent is the maximum amount for exposure for several hours without serious disturbances.
- 4. The odor of methyl formate is distinct in relatively safe concentrations, but owing to its pleasant nature and the occurrence of olfactory fatigue the possibility of an explosion hazard should be recognized and the material handled with proper precautions.

ACKNOWLEDGMENTS

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DEATHS DURING WEEK ENDED SEPTEMBER 5, 1936

[From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce]

	Week ended Sept. 5, 1936	Corresponding week,
Data from 86 large cities of the United States: Total deaths. Deaths per 1,000 population, annual basis. Deaths under 1 year of age. Deaths under 1 year of age per 1,000 estimated live births. Deaths per 1,000 population, annual basis, first 36 weeks of year. Data from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, first 36 weeks of year, annual rate.	6, 900 9, 6 491 44 12. 4 68, 372, 148 10, 527 8, 1 10, 1	6, 739 9. 4 497 46 11. 6 67, 556, 789 8, 150 6. 3 9. 9

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 Sept. 12, 1936, and Sept. 14, 1935

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Sept. 12, 1936, and Sept. 14, 1935

	Diph	theria	Infl	Influenza		Measles		Meningococcus meningitis	
Division and State	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935							
New England States: Maine		3				15			
New Hampshire		, ,			2	15	0	0	
Vermont		2				3	ŏ		
Massachusetts	6	ē			30	17	ĭ	Š	
Rhode Island	"	Ž			1	2	1	1 0 2 1	
Connecticut	4	ī		i	4	1 4	ŏ	ō	
Middle Atlantic States:		-			•	-		·	
New York	10	22	17	13	44	65	10	18	
New Jersey Pennsylvania	2	7	7	7	20	10	2	ĕ	
Pennsylvania	11	23	l	l	14	32	5	8	
East North Central States:			l					_	
Ohio		21	14	43	9	13	2	2	
Indiana	10	24	9	18	3		1	3	
Illinois	19	45	3	5	6	18	3	2 3 2 8 2	
Michigan	12	9		1	9	10	3	8	
Wisconsin.	2	2	6	28	12	44	1	2	
West North Central States:	l _	_	_						
Minnesota	5	6	2	2	6	6	0	3	
Iowa Missouri	2 10	19 37				1	1	0	
North Dakota	10	37	14	45	1	33	2	1	
South Dakota	1 1	3	5		2	7	8	1 2 0	
Nebraska.	6	11			5		ő		
Kansas	9	10	1	2	3 4	1 4	ŏ	0	
South Atlantic States:		10			•		١٠	U	
Delaware						2	ol	0	
Maryland 2 3	4	14	i		9	2	3		
Maryland ^{2 3}	ا و ا	15	1 1		ا " ا			,	
Virginia	33	21			7	6	1 3 3	1 2 2 2 0	
West Virginia	7 1	32	14	28		š	ăl	2	
North Carolina 3	65	41	6	3		2	4	ō	
South Carolina	18	13	67	112		īl	ī!	Ŏ	
Georgia 4	28	36					Ō	i	
Florida 4	10	3		1	3	i	Ŏ	Ō	
East South Central States:	ا ا		1				ŀ		
Kentucky	9	29		7	17	1	10	0	
Tennessee.		39	7	17	8	2	5	7	
Alabama 4	31	34	13	31		2	2	0	
Mississippi 3 4	15	21					2	0	

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Sept. 12, 1936, and Sept. 14, 1935—Continued

	Diph	theria	Infl	uenza	Measles		Meningococcus meningitis	
Division and State	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935						
West South Central States:								
Arkansas Louisiana 4	17	29 10	17	19		8	0	0
Oklahoma 5	10	14	7	13	i	ı	Ô	1 1
Texas 4	33	41	24	16	9		ľ	1
Mountain States:	١.	1				l _	١.	
Montana	8	1		1 2	1	3	0	1
Idaho	i			2		2	ŏ	0 0 0 3
Colorado		7			2	4	ŏ	lŏ
New Mexico	2	11		3	3	1	0	Ō
Arizona	3		23	3	1	1	0	3
Utah ² Pacific States: Washington		2			3 18	1 11	0	0
Oregon.	1		1	7	3	34	!	0 5
California 4	22	31	18	9	18	69	0	5
Total	48/3	697	269	433	273	433	68	80
First 37 weeks of year •	16, 675	20, 474	142, 573	105, 458	271, 581	697, 775	6, 191	4, 434
	Polion		Casala	• farran	9		M b	4 (
	Ponon	yenus	Scarle	. iever	SII: A	llpox	Typhoi	d lever
Division and State	Week ended							
	Sept. 12, 1936	Sept. 14, 1935	Sept. 12, 1936	Sept. 14, 1935	Sept. 12, 1936	Sept. 14, 1935	Sept. 12, 1936	Sept. 14, 1935
New England States:								
Maine New Hampshire Vermont	4	12	6	7	0	0	0	4
New Hampshire	0	4 2	3	0	0	0	0	0
Vermont	0	143	1 34	1 55	ŏ	0	0 6	4 0 0 3 0 5
Massachusetts Rhode Island	ől	36	5	3	ŏ	ŏ	3	ŏ
Connecticut	0	38	10	22	0	0	2	3
Middle Atlantic States:		005	100	123	o l	0	20	
New York	11	285 54	100 17	43	0	ő	19	44 8
Pennsylvania i	7 1	38	82	119	ŏΙ	ŏ	43	8 52
East North Central States:				i				
Ohio Indiana	18	10 3	83 26	94 47	0	1 0	69 13	41 13
Illinois	52	18	66	200	3	ŏ	20	19
Michigan	2	65	47	55	3 0	0	14	8
Wisconsin	4	8	55	58	1	2	1	3
West North Central States:	1	8	19	45	0	ol	0	7
MinnesotaIowa	7	4	24	29	il	ŏl	2	5
Missouri	5	4 i	18	46	0	0	31	5 20 2
North Dakota	0	0	4	10	0	1	1	2
South Dakota Nebraska	0	2 0 1	10	11 20	0	5	3 1	1 0
Kansas	3 5	i	26	37	ō	ŏ	ĝ	10
South Atlantic States:	- 1	!	1	ı	i	i i	.	
Delaware	9	0	; -	21	0	0	11	15
Maryland 23 District of Columbia	1 0	7 9	15 10	5	9	ŏ	1	13
Virginia	0 2	21	11	28	0 (0 [27 23	31
West Virginia.	4	8		42	0	0	23	23
West Virginia	2	14	23	44	0	0 1	13 16	23 15
Georgia 4	12	0 2	30 23 5 2 2	9	ŏ	ŏ	38	15 1 31 23 23 15 34
Florida 4	0	0	2 !	8	Ō	Ō	2	3

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Sept. 12, 1936, and Sept. 14, 1935—Continued

	Poliomyelitis		Scarlet fever		Smallpox		Typhoid fever	
Division and State	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935	Week ended Sept. 12, 1936	Week ended Sept. 14, 1935
East South Central States:								
Kentucky	1	18	28	48	0	0	43	38 37
Tennessee	21	4	25	56	0	0	44	37
Alabama 4	15	1	11	17	0	0	28	11
Mississippi 2 4. West South Central States:	5	0	8	12	1	0	24	9
West South Central States:	1		1	İ	i	l		
Arkansas	0	3	1 3	1 8	1 0	0	17	11
Louisiana 4	ì	i	1 4	3	l ō	Ŏ	26	17
Oklahoma 5	ī	Ō	l ő	9	Ιŏ	Ŏ	28	20
Texas 4	ī	ĭ	19	17	ŏ	ŏ	29	46
Mountain States:	•	-			•	"		
Montana	1	0	11	21	10	0	6	3
Idaho	2	ŏ	l î	l i	ő	ŏ	ĭ	6
W yoming.	ĩ	ŏ	6	1 4	ŏ	ŏ	i	ň
Colorado	4	ŏ	8	13	2	ŏ	2	×
New Mexico.	ō	ŏ	5	1 3	ő	ŏ	10	93
Arizona	X	4	ı	6	ŏ	ŏ	10	23
Utah 2	Ÿ	õ	13	16	1	ŏ	ĭ	0 0 23 3
Pacific States:		U	1.3	10			•	U
Washington	2	0	13	17	2	5	5	6
w sommeron	2	2	10	33	ő	ő	8	ŏ
OregonCalifornia •	13	19	75	94	ŏ	1	2	11
Camorina	13	18	//3	94	U			11
Total	218	849	986	1, 562	22	16	669	633
First 37 weeks of year 6	2, 040	7, 273	187, 451	184, 983	6, 190	5, 423	9, 268	12, 104

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	Measles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
June 1936 Puerto Rico		44	316	751	265		1		0	64
Colorado	1 2	8 6	215		32 5		0	56 1	3 0	12 8
Arkansas Indiana Iowa Nebraska North Carolina Rhode Island Wyoming	7 8 2 7	16 38 13 21 92 1 2	11 20 3 	311 2 1	8 3 21 16 5 2	106	1 4 6 3 9 1 0	16 68 79 43 78 26 23	0 1 7 1 0 7	55 43 22 6 129 4 4

¹ New York City only.
2 Week ended earlier than Saturday.

² Rocky Mountain spotted fever, week ended Sept. 12, 1936, 6 cases, as follows: Maryland, 2; North Carolina, 4.

⁴ Typhus fever, week ended Sept. 12, 1936, 73 cases, as follows: Georgia, 40; Florida, 3; Alabama, 7; Mississippl, 1; Louisiana, 1: Texas, 20; California, 1.

5 Exclusive of Oklahoma City and Tulsa.

[•] The totals have been corrected.

Summary of Monthly Reports from States-Continued

June 1936		August 1936		August 1936—Continued	
Puerto Rico: Cas	ses	Chicken pox: C	ases	Rabies in animals: C	8.9 66
Chicken pox	8	Arkansas	14	Indiana	44
Dysentery	170	Indiana		Rocky Mountain spotted	
Filariasis	2	Iowa		fever:	
Leprosy		Nebraska	27	North Carolina	9
Mumps	12	North Carolina	14	Septic sore throat:	
Ophthalmia neonatorum.	3	Rhode Island		Nebraska	1
Puerperal septicemia	6	Wyoming		North Carolina	16
Tetanus	6	Dysentery:		Rhode Island	2
Tetanus, infantile	3	Iowa (bacillary)	1	Wyoming	2
Trachoma	4	North Carolina (bacil-		Tularaemia:	
	40	lary)	2	Arkansas	1
Yaws	1	Epidemic encephalitis:		Iowa	1
		Iowa	3	Wyoming	5.
		Rhode Island	1	Typhus fever:	
July 1936		German measles:		North Carolina	1
•		North Carolina		Undulant fever:	
Colorado:		Rhode Island	23	Arkansas	2
Chicken pox	15	Mumps:		Indiana	1
	61	Arkansas		Iowa	
Typhus fever	1	Indiana		North Carolina	3
Whooping cough 1	72	Iowa	28	Rhode Island	1
Hawaii Territory:	- 1	Nebraska		Whooping cough:	
	21	Rhode Island		Arkansas	9
Dysentery (amoebic)	1	Wyoming	12	Indiana	86
Leprosy	3	Ophthalmia neonatorum:		Iowa	50
	93	North Carolina		Nebraska	92
Paratyphoid fever	2	Rhode Island	1		
Typhus fever	4	Paratyphoid fever: North Carolina	_ [Rhode Island	
Whooping cough	17	North Carolina	3 1	Wyoming	6

Cases of Venereal Diseases Reported for July 1936

These reports are published monthly for the information of health officers in order to furnish current data as to the prevelance of the venereal diseases. The figures are taken from reports received from State and city health officers. They are preliminary and are therefore subject to correction. It is hoped that the publication of these reports will stimulate more complete reporting of these diseases.

Reports from States

	Syl	philis	Gone	orthea
	Cases	Monthly	Cases	Monthly
	reported	case rates	reported	case rates
	during	per 10,000	during	per 10,000
	month	population	month	population
Alabama	991	3. 50	284	1.00
Arizona	16	. 41	68	1.76
Arkansas	210	1. 05	102	.51
California	1, 362	2. 42	1,398	2.48
Coloredo 1 Connecticut Delaware District o' Columbia Florida Georgia	217	1. 26	1. 40	. 82
	154	6. 02	44	1.72
	220	3. 70	236	3.97
	308	1. 91	113	. 70
	1, 112	3. 32	564	1.69
Idahō Illinois Indiana Iowa Kansas	13 1, 500 104 94 124	. 27 1. 92 . 30 . 37 . 67	1,007 77 159 84	. 98 1. 29 . 22 . 63 . 45
Kentucky ² Louisiana Maine Maryland Massachusetts Michigan	278 42 892 476 463	1. 31 . 50 5. 34 1. 09	170 57 254 548 530	. 80 . 67 1. 52 1. 25 1. 14
Michigan Minnesota Mississippi Missouri Montana ² Mohana ²	315	1. 20	309	1. 18
	1,378	7. 03	2, 656	10. 48
	261	. 67	245	. 63
New Hampshire	10	. 20	19	.38
	581	1. 35	260	.61
	73	1. 82	39	.97
	8, 641	6. 70	1,727	1.34

Reports from States-Continued

	Syr	hilis	Gonorrhea		
	Cases	Monthly	Cases	Monthly	
	reported	case rates	reported	case rates	
	during	per 10,000	during	per 10,000	
	month	population	month	population	
forth Carolina. forth Dakota. hio klahoma. regon. ennsylvania. hode Island. outh Carolina. outh Dakota. ennessee. exas. tah termont. irginia.	1, 939	5. 67	440	1. 29	
	7	.10	84	1. 20	
	604	.99	295	44	
	148	.89	210	.94	
	38	.38	97	.96	
	324	.32	195	.19	
	88	1.29	53	.78	
	200	.99	286	1. 42	
	10	.15	42	.62	
	917	3.16	488	1. 68	
	473	.78	172	.28	
ashington est Virginia isconsin yoming	138	. 85	241	1.48	
	177	. 97	77	.42	
	24	. 08	188	.65	
Total	25, 536	2.09	13, 812	1. 13	

Reports from cities of 200,000 population or over

•	,			
Akron, Ohio	26	0.96	17	0.63
Atlanta, Ga. ²		0.90	17	0.63
Baltimore, Md		5.71	156	1.89
Birmingham, Ala	144	5. 10	136	2.13
Boston, Mass	208	2.63	222	2.13
Buffalo, N. Y. ²		2.03	222	2.81
Chicago, Ill	922	2, 58	647	1.81
Cincinnati, Ohio	88	1.89	60	1.01
Cleveland, Ohio	200	2. 15		1. 27
Columbus, Ohio	40	1.31	118 19	1. 27
Dallas, Tex		2.62	19	.66
Dayton, Ohio 3		2.02	19	.00
Denver, Colo		. 78	34	1. 15
Detroit, Mich		.93	205	1.13
Houston, Tex.4	253	7, 55	82	2.45
Indianapolis. Ind.	32	.85	40	1.06
Jersey City, N. J. ²		. 89	40	1.00
Kansas City, Mo.	50	1. 19	5	
Los Angeles, Calif	367	2.56	416	. 12 2. 91
Louisville, Ky	281	8.67	187	
Memphis, Tenn	161	6.03	65	5. 77 2. 43
Milwaukee, Wis	101	. 18	18	
Minneapolis, Minn	73	1.50	89	. 29 1. 83
Newark, N. J		6.37	108	2.33
New Orleans, La. ²	293	0.37	108	2. 53
New York, N. Y	6, 450	8, 83	1, 238	1.70
Oakland, Calif.	0, 400	8.83	1, 238	1.70
Omaha, Nebr		. 73		
Philadelphia, Pa.	16 211	1.06	13 60	. 59
Pittsburgh, Pa.	211	1.00	00	. 30
Portland Oreg 1				
Portland, Oreg. ²				
Rochester, N. Y. ²				
St. Louis, Mo	109	1. 30		1.04
St. Paul, Minn		1.49	87 50	1.04
San Antonio, Tex.1	12	1.49	90	1.77
San Francisco, Calif	134	2.00	158	2, 36
Seattle, Wash	68	1.79	105	2.36 2.77
Syracuse, N. Y.	08	1.79	105	2. 77
Toledo, Ohio	45	1.48		1.08
Washington, D. C.	220	1. 48 4. 43	33 236	
т асшивоси, В. О	220	1. 13	230	4. 75

Not reporting.
 No report for current month.
 Only cases of syphilis in the infectious stage are reported.
 Reported by the Jefferson Davis Hospital. Physicians are not required to report venereal diseases.
 Reported by social hygiene clinic.

WEEKLY REPORTS FROM CITIES

City reports for week ended Sept. 5, 1936

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

State and city	Diph- theria	Infl	uenza	Mea- sles	Pneu- monia	Scar- let	Small-	Tuber- culosis	Ty- phoid	Whoop-	Deaths,
	cases	Cases	Deaths	Cases	deaths	fever cases	cases	deaths	fever cases	cases	causes
Maine: Portland				0	1	0	0	0	0	0	18
New Hampshire:	1						1	1 1	-		
Concord	0		0	0	0	0	0	0	0	0	4 7
Manchester Nashua	8		U	ŏ	0	0	l ö	1	ő	ŏ	,
Vermont:							Ĭ		·		
Barre Burlington	0		0	0			0		ō		<u>9</u>
Rutland	ŏ		ŏ	ŏ	ŏ	ŏ	Ŏ	ŏ	ŏ	ŏ	9 7
Massachusetts: Boston	1	1	o	7	6	8	0	9	1	46	183
Fall River	0		0	0	0	3	0	0	0	0	183 19 31 35
Springfield	0		0	Ō	9	o	0	1 2	0	0 27	31
Worcester Rhode Island:	0		0	1	4	4	0	2		21	33
Pawtucket											
Providence Connecticut:	0		0	0	2	6	0	2	2	18	42
Bridgeport	0	1	0	1	0	0	0	0	0	3	23
Hartford New Haven	0		0	0	0	0	0	0	0	5 5	128 34
New York:						اء					100
Buffalo New York	1 11	4	1 3	4 40	3 61	6 19	0	11 74	1 14	93	139 1, 143
Rochester	0		Ó	0	0	0	0	3	0	7	65
Syracuse New Jersoy:	0		0	0	0	1	0	1	0	26	41
Camden	0		0	0	0	ol	0	2	0	0	26
Newark	0		0	2	2	2	0	6	1	18	76.
Trenton Pennsylvania:	0		0	٥	1	0	0	2	0	1	35
Philadelphia	0	2	1	2 1	14	15	0	25	3	86	343
Pittsburgh	2	1	8	1 0	13	8 0	0	3 0	3 0	41 17	127 27
Reading Scranton	ŏ			ĭ		2	ŏ		ŏ	2	
Ohio:		İ	1						ŀ	- 1	
Cincinnati								-	i		155
Cleveland Columbus	1	5	8	1 0	6	17	0	8	ól	54	64
Toledo	δ		ŏ	2	ī	ŌΙ	Ŏ	5	Ŏ.	23	57
Indiana: Anderson	0	- [0	0	o	ol	0	ol	0	اه	7
Fort Wayne			0	ŏ	0	ÓΙ	ŏ	ÓΙ	0	ŌΙ	18
Indianapolis	0 2 0		0	0 2 0	5	5	8	7	ŏ	1 0	73 7 12
Muncie South Bend	8		8	ŏ	ŏ	ŏ	ŏi	2	ŏ	ŏl	12
Terre Haute	Ŏ		0	0	0	0	0	. 0	0	0	16
Illinois: Alton	0	- 1	0	0	1	o	ol	ol	o l	اه	13
Chicago	10		0	1	26	33	0	34	3	58	555
Elgin	0	;	0	8	8	0	0	0	0	8 5	5 6
Moline Springfield	ŏ	1	ô	ŏ	ĭ	ŏ	ŏ	ĭ	ĭ	ĭ	18
Michigan:	1		- 1	1			0	23		80	222
Detroit	2 0		0	7	13	11 0	öl	0	5	8	22
Grand Rapids.	ŏ		ŏ	ō	ŏ	2	ŏ	ŏ	Ŏ	4	23
Wisconsin: Kenosha		- 1	اه	اه	o	ь .	0	1	0	8	5
Madison	0		0	1	0	5 2 2 3	0 1	0	ŏ	3	21 92
Milwaukee	0		0	1	6	2	0	8	0	65	92 11
Racine Superior	0		8	8	1 0	1	81	ő	8	8	2
_	٠		-	١-	- [-	- 1	1	1		
Minnesota: Duluth	0		o	1	0	1	ا ہ	2	2	7	28
Minneapolis	Ó.		0	0	1	3	0	2 2 2	0	1	28 92
St. Paul	0]	0 1	0	4 1	6	0 1	2	. 01	13	43

City reports for week ended Sept. 5, 1936—Continued

	Diph-	Inf	luenza	Mea-	Pneu-	Scar-	Small-		Ty- phoid	Whoop-	I TO COMMETTED
State and city	theria cases	Cases	Deaths	sies cases	monia deaths	Sever Cases	cases	deaths	fever cases	eough cases	causes
Iowa:											
Cedar Rapids	0			0		0	0		0	1	
Davenpert	0			0			0		8		
Des Moines Sioux City	i					8	0			0	30
Waterloo	å			ĕ		i	Ô			lŏ	
Missouri:				•		•	1		Ĭ	ľ	
Kansas City	0	-	0			•	0	5		0	78
St. Joseph	1		0		2		0	3	1	5	35
St. Louis North Dakota:	4		0	0	1	8	0	14	5	14	211
Forga	0	ł		٥	ا ه	0	0	6	0	0	3
Fargo Orand Forks	ŏ			ě		ŏ	ě		ŏ	Ŏ	
Minot	Ŏ		0	Ŏ	0	Ŏ	2	0	Ŏ	Ō	7
South Dakota:		1		_	1 1				_	_	l
Aberdeen	0			0	l <u>:</u> -	0	0		9	0	
Sioux Falls	O		0	0		0	0	0	0	0	6
Nebraska: Omaha	6	l		1	2	1	0	3	0	1	54
Kansas:	v			•	^	•	•	•	•	•	٧.
Topeka	b	l		0	1	1	0	0	1	0	
Wichita	Ō		Ŏ	Ö	ī	Ō	Ò	Ō	•	0	24
Delaware:		l	1 1								
Wilmington	0	 	0	0	2	0	0	1	0	1	26
Maryland:				_	1		_		_		
Baltimore	0	3	1	9	13	4	Ŏ	17	3	107	165
Cumberland Frederick	0	1	8	0	0 1	1 0	0	0	0	0	5
District of Colum-	•		ا	U	1 1	U	"	١	•		•
bia:			1 1								
Washington	9		0	1	8	6	0	8	0	26	118
Virginia:			1 .1		1.1					_	
Lynchburg	3		0	1	1	1	0	2	9	0	13
Norfolk	1		8	2 0	1 0	0	0	1 2	1 0	0	23 50
Richmond Roanoke	8		8	ŏ	ő	1	ő	ő	ŏ	ő	9
West Virginia:	•		۱۳۱			•		•	•	•	•
Charleston	0		0	0	0	1	0	O	1	0	11
Huntington	2			0		8	0		0	Ō	
Wheeling	0		0	0	0	0	0	2	2	0	8
North Carolina:			l I	_	1	ا م	اما		اہ		
Gastonia Raleigh	0		0	0	i	0	0	i	0	0	15
Wilmington	8		ŏ	ŏ	ô	ĭ	ő	ô	ô	ŏ	14
Winston-Salem	ĭ		ŏ	ŏ	ŏ	ôΙ	ŏ	ŏ	ŏ	ŏl	7
South Carolina:				-	1	- 1		. 1	- 1	1	
Charleston	0		0	0	4	0	0	2	0	0	26
Florence	.0		0	0	1	0	0	0	9	0	9
Greenville	2		0	0	1	0	0	1	0	0	13
Georgia: Atlanta	0	3	0	0	8	0	0	3	3	0	71
Brunswick	ŏ		ŏ	ŏ!	ŏ	ŏ!	ŏ	ő	ŏ	ŏ	1
Savannah	8		Ŏ	ŏ	1	ŏĮ	ă	4	ě	i	85
Florida:	_ 1			ا ـ		_ 1	_	_ [ا ا	
Miami	2		0	9	2	9	0	1	0	0	35 26
Tampa	0		0	0	ין	3	0	0	1	0 [A
Kentucky:	l	l		l	1	Í	- 1	l	1	ŧ	
Ashland	0			0		1	0	1	0	0	21
Covington	0		0	0	0	0	0	6	0	0	6
Lexington	0		0	4	2	0	0	2	0	0	19
Louisville	0		0	1	3	1	0	4	1	3	79
Tennessee: Knoxville	1		0	1	2	o	a	1	2	a	23
Memphis	ô		ŏ	i l	2	ŏ	ŏ	5	2	ĭ	77
Nashville	il		ŏ	ō	ō	ž	ă	5	ōſ	ől	55
Alabama:	1		1	ı	1	- 1	- 1	- 1	- 1	- 1	
Birmingham	1	1	0	0	8	3	0	4	4	1	55
Mobile	2		0	0	1	1	0	1	1	0	22
Montgomery	1			0		0	0		0	0	·-
Arkansas:	- 1		ì	- 1			į	i	- 1	į	
Fort Smith	0			9		ol	ol.		0	0 .	
Little Rock	ŏ		0	ŏ	3	ŏ	ŏ	2	ŏ	ŏ	0
Louisiana:			- 1	- 1	- 1	- 1	t	ı	ŀ	1	
Lake Charles	0		0	0	2	0	0	0	0	0	. 8
New Orleans	1	1	1	0	11	0	0	10	8	1	154
Oklahoma: Oklahoma	- 1	- 1	- 1	j	!	- 1	- 1	•	- 1	- 1	
City	3 .		o l	0	3	1	اه	3	2	ol	43
~···,·································	U 1.		• '	٠,	• /	- 1	•	•	- '	• •	

City reports for week ended Sept. 5, 1936—Continued

State and city	Diph- theria	Infl	uenza	Mea- sles	Pneu- monia	Scar- let fever	pox	Tuber- culosis	Ty- phoid fever	Whoop- ing cough	all
	Cases	Cases	Deaths	C8.568	deaths	cases	Cases	deaths	cases	Cases	causes
Texas:											
Dallas	8		0	2	2	8	0	1	1	3	54
Galveston	0		0	0	1	0	0	2	0	Ó	15
Houston	0		1	Ó	4 3	Ŏ	0	4	0	0	74 51
San Antonio	1		1	1	8	0	0	6	U	0	91
Montana:		l i					١.	1			
Billings.	0	l	0	0	1	2	0	0	0	0	3
Great Falls	0		0	0	1	0	0	0	0	0	8
Helena	0		Q	Q	0	0	0	0	0	0	3 8 5 7
Missoula	0		0	0	0	0	0	0	2	0	7
Idaho:	0		0	0	. 2	0	0	0	0	0	11
Boise Colorado:	U		U	U	2	U	U		U	v	11
Colorado:											
Springs	0		0	1	0	1	0	1	0	1	11
Denver	3		ŏ	1 2	4	1 3	ŏ	1 2	ĭ	35	85
Pueblo	ŏ		ŏ	ō	اة	ĭ	ŏ	ō	ō	ŏ	5
New Mexico:			•	•		•	•	Ĭ			
Albuquerque	0		0	0	1	0	0	8	1	0	20
Utah:											
Salt Lake City_	0		0	1	1	5	0	0	0	9	27
Nevada:								1			
Reno											
Washington:											
Seattle	0		0	1	2	1	0	3	0	0	81
Spokane	Ŏ		Ŏ	2	2 3	8	Ŏ	8	Ó	3	
Tacoma	Ŏ		Ŏ	ī	i	i l	Ō	1	0	0	34
Oregon:											
Portland	0		0	1	4	2	0	4	0	0	80
Salem	0			0		0	0		0	0	
California:				_		اما			ا ا	40	oro
Los Angeles	10	8	0	3	11	6	0	32	2 2	48 27	258 25
Sacramento	1		0	1 4	11	7 16	0	2 5	2 2	27	25 159
. San Francisco .	- 1		0	*	11	10	ا ت	"	- 1		109

State and city		gococcus ngitis	Polio- mye- litis	State and city		gococcus ngitis	Polio- mye- litis
•	Cases	Deaths	cases		Cases	Deaths	cases
Massachusetts: Boston New York: New York Rochester Syracuse New Jersey: Newark Pennsylvania: Philadelphia Reading Ohio: Toledo Indiana: Indianapolis. Illinois: Chicago Springfield Michigan: Detroit Wisconsin: Kenosha. Madison Milwaukee Superior Minnesota: Minneapolis.	0 1 0 0 3 0 1	0 1 0 0 1 0 1 0 0 1 0 0	2 6 2 2 2 2 0 0 1 1 0 0 3 1 1 1 3 1 1 1 1 1 1 1 1 1	Maryland: Baltimore. Virginia: Lynchburg. Roanoke. West Virginia: Wheeling. North Carolina: Winston-Salem. Georgia: Atlanta. Florida: Miami. Tennessee: Knoxville. Memphis. Alabama: Birmingham Oklahoma: Oklahoma City. Colorado: Denver. Washington: Spokane. California: Los Angeles. Sacramento.	0 1 1 1 0 0 0 0 0 0 4	2 0 0 0 1 0 1 0 0 1 0 0	0 2 1 0 0 0 0 1 2 4 4 3 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Iowa: Des Moines Missouri: St. Louis	0 1	0 1	1 2	San Francisco	0	0	1

Epidemic encephalitis.—Cases: New York, 1; Louisville, 1; Great Falls, Mont., 5; Denver, 2. Pellagra.—Cases: Boston, 1; Charleston, S. C., 3; Birmingham, 2; New Orleans, 1; Los Angeles, 1. Rabies in man.—Deaths: Chicago, 1. Typhus fever.—Cases: Atlanta, 1; Savannah, 4; Birmingham, 2.

FOREIGN AND INSULAR

CZECHOSLOVAKIA

Communicable diseases—June 1936.—During the month of June 1936, certain communicable diseases were reported in Czechoslovakia as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax Cerebrospinal meningitis. Chicken pox Diphtheria Dysentery Influenza Lethargic encephalitis. Malaria	6 16 120 1, 512 22 17 1 358	87 1	Paratyphoid fever Poliomyelitis Puerperal fever Scarlet fever Trachoma Typhoid fever Typhus fever	14 24 36 2, 192 48 305 23	10 16 46 13

EGYPT

Infectious diseases—Fourth quarter 1935.—During the fourth quarter of 1935, certain infectious diseases were reported in Egypt as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax Cerebrospinal meningitis. Chicken pox Diphtheria. Dysentery Erysipelas. Influenza. Leprosy. Malaria. Measles. Mumps.	3 35 68 785 633 692 1, 160 41 3, 603 708 177	1 23 407 123 145 26 11 30 233 4	Plague Poliomyelitis Puerperal septicemia Rabies Scarlet fever Tetanus Tuberculosis (pulmonary) Typhoid fever Typhus fever Undulant fever Whooping cough	5 2 89 10 92 981 859 88 6 218	79 4 1 77 543 188 15

Vital statistics—Fourth quarter 1935.—Following are vital statistics for the fourth quarter of 1935 in all places in Egypt having a health bureau:

PopulationLive births		Deaths per 1,000 population Deaths from diarrhea and enteritis under	24. 6
Births per 1,000 population	45. 1	2 years	5, 620
Stillbirths	1,031	Infant mortality per 1,000 live births	137

FRANCE

Vital statistics—First quarter 1936—Comparative.—Following are vital statistics for France for the first quarter of 1936, compared with the first quarter of 1935:

	First quarter, 1933	First quarter, 1935		First quarter, 1935	First quarter, 1935
Marriages Live births Stillbirths	55, 933 163, 549 6, 193	59, 129 166, 593 6, 296	Doaths under 1 year Total deaths	11, 939	13, 989

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

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

CHOLERA

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

	ıt 1986	15 22 29		, q	88 88	1		23 18 12 214 1, 591 1, 377	- 1			24 04	188 88	1
	August 1996	8	<u> </u>	<u> </u>	18	<u> </u>		785 1,2	 	<u> </u>		4	115	- 8
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		ส	<u> </u>		28	705	3	83	1,204	3	i	4.61	167	
Week ended-	1936	81		2, 162	78	İ		367	, 88.5 -	-			118	
Week e	July 1936	ıı		1,929	2=	986	2.7	888	875	3°1	<u> </u>	7	8	77
		4		8,4, 080,	- 18 ·	552	22.5	25.25	822	3		⇒ 4	8.	1
		22		3, 482	326	285	2.77	92	. <u>\$</u>	3		20	18	1
	June 1936	8		3,837 1,793		1		<u>≅</u> 8.	80° 1				2	
	June	13		3,861 2,010				4633	479				19:	-
		ø		2, 098	8 & 4		<u>:</u> _	191 279	501		-		35	
	May 30,			21, 278 10, 634	292	. 38°	3	1,012	1,556	67	က		19	
2	Apr. 25.		ğ	24, 028 11, 745	38	145	1	357	1,677	20-1	010	7	9	*
	Mar. 1- 28, 1936			16,605 7,988	88	130	3	217	2,751	8=	25	001		
	Jan. 28- Feb. 29, 1936			13,72 82,73 92,83	4	332		88 28	2,877	28	C1 2	225	1	
	Place		Ceylon: Batticaloa.1 Provinces	Assam								Northwest Frontier Proglams		Sind State Tuttoorin

India (French): Chandernager Territory Chandernager Territory Rarital Frovince Fondichery Frovince Indochina (see also table below): Chanton (see also table	91 52 375 977	74 148 961 1	59 649 1	2 10 11 252 288 1	∞ <u>o</u>	6 4 60 H	0.0	100 50	21 1 21 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2		4.6 80 11.5 7.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	32 32 15		-8	
Dlane	X	March 1936	3	V	April 1936		ı	May 1936			June 1936	_	,	July 1936	
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Indochina (French) (see also table above): Cambodia *D Cochinchina *	4400	ক্তক্	8844	46	1	1	1	1153		1	44	111	ကက	8888	

1 According to information dated Apr. 8, 1936, 31 cases of cholera with 27 deaths have occurred in the vicinity of Batticaloa, Ceylon.
 2 Imported.
 8 Reports incomplete.

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

PLAGUE

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

	Jan								:	Weel	Week ended-	1					
Place	ස් දී දී	Mar. 1–28, 193 8	Mar. 29-Apr. 25, 1936	Apr. 26- May 30, 1936		June 1933	1933			July 1936	1936			ηγ	August 1935	32	
	1836				မ	13	20	27	4	11	18	22	1	8	15	22	81
Algeria: Bone. Coran Department. Coran Philippeville. Coran See also table below): Bahia Blanca (vicinity of).	61		13													31	
Azores. (See table below.) Basutoland. (See also table below.) Belgian Congo. Call See also table below.) Call Sealso Callo Callow.)	, ů														-	-	
Sao Paulo.s British East Africa: Tengan Tengan C Uganda.	8.4	6226	11	153	9 18	1 2	12	- 83	→ 83	- 28	ច នូរ	e ង	01 81	1 2 2	e 3		
Ceylon: Anuradhapura		x cc cc	3 6000	<u> </u>	<u> </u>	g mm m		\$	8 -	7	8 88	8	3	2	8	-	
Manar Maskilya Bouthear Province Weligama												-				-	

Including plague in the United States and its possessions.

Figure of the United States that 4 cases of plague had been reported at Salta Province and 1 case at Tucuman Province, Argentina.

Includes 1 suspected case.

Includes 1 suspected case.

A report dated July 29, 1939, states that 23 cases of pneumonic plague with 18 deaths were reported in Sao Paulo, Brazil.

China: Manchuria.º Dutch East Indies: West Java	0,5	966	000		553		+	+	-	-		_						
Ecuador: Daule 7. Gravannii				1	3	5							64					
Plague-infected rats	A		<u> </u>					-	59	-	80					-		
Egypt: Alexandria: Plague-infected rats	0	A ®	d E	A 22	P 63	2	ρ,	-	Δ,		Д	-	<u>A</u>	А				
Girga Province. Minya Province.	000	04	-22			11-	$\frac{1}{1}$		++	#	11	+						
France: Marsellie Hawaii Territory; Pisgue-infected rats: Hawaii Island-Hamakus district: 9) 		<u> </u>	<u> </u>		·									-			
Hamakus Mill. Paguhau sector		- -			2			#	$\frac{11}{11}$	 	<u> </u> 	2	<u> </u>	-	2		6	
India Fonakea sector	OQ	382 3, 726 1,	543	223	838 806	38	8,22	22.25	22	: ::::::::::::::::::::::::::::::::::::	29	23 28	$\frac{ \cdot \cdot }{ \cdot \cdot }$					
Bassein. Plague-infected rats. Bombay Presidency.		1692-7	125	2 88	2 =	7	-	4		7		m	1 100	⇔ —	67			_
Bombay Caloutta	A00	110	2	7	9			7-		111		111	2					-
Central Provinces and Berar. Karles Describerov	 ວວວ	284 06	456 5 5	487	22		$\frac{1}{1}$	+	+	1 140			9 0	27	22	8	8 :	
Punjab	A01	==	87	នេះ	બદા				<u>:</u> 	63	001	=	6					
Rangoon Plague-infected rats	10 10	5 2	2 2	23	25.0			7	<u> </u>			<u> </u> 	2-				1	
Indochina (see also table below): Longxuyen Fnom-Pouh	;; ;;	1			-		-		- ; ;			-						
Saigon-Cholon Tanghai	<u></u> 00 			- 61	4			+	<u> </u>	+	<u> </u>	11			<u> </u>			
Madagascar. (See table below.) Malta) c	- 1	-	mc	-	e -		- 	-	<u> </u>	$\frac{1}{1}$						-	
6 A report dated And CO 1038 states that 5 peace	ا لل و		orted of	7 1 (m/m) 21	Province	Monohus	hurio	ر المالي ماليان	<u> </u>	-	-		1		-			Ī

France.

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Prance.
Plague-infected rats have also been reported in Hawaii Territory as follows: Week ended Aug. 8, 1936, 2 plague-infected rats in Hamakua district, no location given; week ended Sept. 12, 1936, 7 plague-infected rats were reported in Paauhau Sector, Hamakua district, Island of Hawaii.

Is Imported. A report dated Aug. 20, 1936, states that 5 cases of plague were reported at Kirin Province, Manchuria, China.
 During the period Jan. 1 to Feb. 20, 1936, 7 cases of plague were reported at Daule and vicinity. Ecuador.
 During the period Jan. 1 to Feb. 20, 1936, 10, 1936 was reported in Marseille, France. A report dated Sept. 3, 1936, states that 2 plague-infected rats were reported in Marseille.
 During the week ended Sept. 5, 1936 in 20, 1936 of 1930 was reported in Marseille.

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

PLAGUE-Continued

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

				ļ						Weel	Week ended-						
Place	ප්රීදීදී 	Mar. 1-28, 1936	Mar. 29-Apr.	Apr. 26- May 30,		June	June 1936			July 1936	936			νnγ	August 1980	2	
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Peru. (See table below.) Senegal. (See table below.) South-West Africa. (See table below.)																•	'
oted rats. Africa	24	14	200	9	21 11		11 15	-	=	-			72	 	=		-
Oantorna: Lassen County—Plague-infected squirrels Modoc County—Plague-infected squirrels Monterey County.						H4	7	m 01 -	-6	-			2		T		
Santa Cruz County 13—Plague-infected squirrels.			-				2	18	20		$\frac{1}{11}$	9					
Ventura County—Plague-infected squirrels Idaho: Bonnawelile County—Plague-infected squirrels Montann: Besyethead County, 1					Δ,	P.		1-									
Nevada: Elko County—Plague-infected squirels Utah: Beaver County				Δ,				-	-		;	:		 		:	į
Plague-infected marmots Plague-infected squirrels Garfield County !—Plague-infected prairie dogs									•		-		-	- 6			
On vessel: 8. Fourth at Marsellle from Bone and Philippeville.												Ī			-		
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If For 2 weeks.
In During the week ended June 27, 1936, 3 lots of plague-infected fleas in Modoc County, and 7 lots of plague-infected fleas in Santa Cruz County, Calif., were also reported.
In During the week ended Juny 25, 1936, 163 fleas and 26 lice taken from 7 marmots (ground hogs) shot at the head of Small Horn Canyon, Besverhead County, Mont., were reported plague infected.
If Plague-infected fleas in Utah have also been reported as follows: Aug. 24, 45 fleas taken from 22 prairie dogs in Garfield County, and July 28, 1936, 315 fleas taken from 11 ground squirrels in Olear Creek Canyon, Sevier County.

Place	Febru- ary 1936	March A 1936 1	April 1936	May 1936	June 1936	July 1936	Place	Febru- ary 1936	March April 1936	April 1986	May 1936	June 1936	July 1936
Argentina (see also table above): Buenos Aires Province	2 4 7 8 888 888 2 1 5 2 1 1 5 6 6 1 1 1 5 6 6 6 1 1 1 1 1 1 1 1		800 1 1 800	2 11-32	188	4 11 40	Peru Lambayeque Department C Libertad Department C Lima Department C Callao C Callao C Callao C Callao C C C C C C C C C C C C C C C C C C C	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Ö 1041H 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 -	M MM-4	* ***

14 From Jan. 1 to Mar 16, 1936. 16 Reports incomplete.

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

SMALLPOX

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

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Ceylon: Colombo	65		-					~		-		•	-	<u>;</u>	 	$\dot{\parallel}$	
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1 For 2 weeks, 1 Imported

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

SMALLPOX—Continued

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

		-	O indicates cases; D, deaths; F, present	es cases,	D, des	tus, r,	present										í
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Nyasaland. (See table below.) Oman: Sharjah and Pirate Coast	8	\$										-					
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Portugal (see also table below): Lisbon Onoth	10	٠.	69	-	-	-			i		-	_		-	i	i	
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	On vessels—Continued. S. S. Eyre at Rangoon from Calcutta. S. S. Cyty of London as thus from Calcutta. S. S. Cyty of London as thus from Calcutta. S. S. Auginura at Port Sud in from Sh nghal. S. S. Augin Maru at Moji from Sh nghal. S. S. Huifin at Robe from Shanghal. S. S. Jinkei Meru at Moji from Hongay. S. Jinkei Meru at Moji from Hongay. S. S. Andya Maru at Moji from Hongay. S. S. Maya Maru at Moji from Shanghal.	F 000 P	Mexico—Continuod. Guanajuato State—Guadajara. Lower California Mexico State—Guadajara. Mexico State Mexico State Mexico State Mexico State Puebla State Quintana Roo San Luis Potosi State—C San Luis Potosi Sonora State C Sonora State C Morean State C Morean State C Peru Morean State C Peru Morean State C Peru Morean State C Peru Morean State C Peru Morean State C Sonora State C Sonora State C Sonora State C Sonora State C Sonora State C Sonora State C Sonora State C Sonora State C Tuts potosi Sanora C Peru Salvador C Turkoy C Turkoy
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orted.

For 3 weeks.

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

TYPHUS FEVER

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

										₿	Week ended	ded							
Place	26-Feb.	Mar. 1-28, 1936	Mar. 29-Apr. 25, 1936		M	May 1936	-			June 1936	98			July 1936	88		¥	August 1936	8
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87899°—36——3

1 For 2 weeks.
2 For 5 weeks.
4 During the week anded Aug. 29, 1936, 2 cases of typinus fever were reported in Dingle, Kerry County, Irish Free State.
4 Imported.

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

TYHUS FEVER-Continued

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

Place	řeb- ruary 1936	March 1936	April 1936	May 1936	June 1936	July 1936	Place	Feb- ruary 1936	March 1936	April 1986	May 1936	June 1936	July 1996
Bollyla. Manchuria—Harbin	115 5 5 8	200	75	8,83,5	28	15	Mexico (see also table above)—Con. Puebla State: Fuebla	64	က	e	8-		
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Ouxage State.	63			2			Yugoslavia C	8	Ē	§	83	2 6	8

YELLOW FEVER

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Place	Jan. 26- Feb. 29, 1936	Mar. 1-28, 1936	Mar. 29- Apr. 25,		×	May 1936	.			June 1936	1936			July 1936	98		`	August 1936	1936	
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1 Yellow fever has been reported in Santa Cruz Department, Bolivia, as follows: For the month of February, 2 cases; March, 10 cases; April 1 case; May, 1 case; June, 2 cases. Yellow fever has also been reported in Brazil as follows: Farana State, Feb. 16-25, 1936, 5 cases, 5 deaths; Sao Paulo State, no date given, 3 cases and 4 deaths. Mar. 24-31, 1936, 2 cases, 2 deaths.

**Includes 1 case of yellow fever reported in the city of Sao Paulo, Brazil.

**Supported: The week ended Sept. 12, 1936, 1 case of yellow fever was reported in Tivaouane, Senegal.