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## RESULTS OF SCHICK TESTS IN CALIFORNIA<sup>1</sup>

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This paper presents the results of 6,664 Schick tests given to school children in three counties, to inmates of four institutions, and to two groups of college students.

The tests first reported by Park (1) on residents of New York City indicated a relatively high rate of immunity. Further studies in many parts of the country suggest that this immunity depends upon contact, because individuals in institutions and city tenements show immunity rates comparable to those reported by Park (1), whereas susceptibility is correspondingly higher in persons living under rural conditions where opportunities for contact are fewer. Zingher (2) found a greater percentage of immunity in children from New York tenement districts than in those from well-to-do families. Adults have been found to be uniformly less susceptible than children, but, without reference to age, any group tends to reflect conditions which afford opportunities for contact.

### TECHNIQUE

In our series of tests "Vim" Schick-test syringes and ½-inch, short-bevel, 26-gauge, platinum-iridium needles were used. The diluted toxin was placed in a 100 c. c. brown glass bottle fitted with a diaphragm rubber stopper, and the diluted heated toxin in a clear glass bottle. The syringes were filled by means of 20-gauge Luer needles, which were inserted in the stoppers and allowed to remain after the syringes were filled. The injections were made intradermally into the flexor surface of the forearms by two operators simultaneously, the right arm being used for the test, the left for the control. No toxin was employed later than 24 hours after the time of dilution. The toxin was purchased from the Cutter Laboratory. The amount of diluted toxin inoculated was 0.2 c. c., containing 1/40 M. L. D. It was originally intended to use a 20 per cent excess of heated toxin, as advocated by Zingher (3). After approximately 2,000 tests had been made, however, it was noted that the number of persistent protein reactions seemed excessive, and

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the following experiment was performed: Schick tests were made on a group of medical students, using two control inoculations, one with a 20 per cent excess of heated toxin and one with no excess. It was at once evident that the comparisons between the test reaction and the equivalent control were much more definite and less obscured by protein reactions than the comparisons between the test reaction and the control reaction produced by the heated toxin containing 20 per cent excess. Therefore the remainder of the tests were controlled by an equivalent amount of heated toxin. The reactions were observed on the fifth day, as experience had convinced us that comparisons made at this time are most free from error.

#### TESTS ON GROUPS OF SCHOOL CHILDREN

The first group was tested in February, 1922, at Pinole, a town of 1,340 population, in Contra Costa County. In the 13 months preceding the tests there had been 44 cases of diphtheria and 5 deaths reported. The health officer, who was also the local physician, assisted by the county public health nurse, conducted a vigorous campaign of education and persuasion, with the result that approximately 90 per cent of the population under 18 years of age submitted to the test and subsequent immunization. These tests demonstrated such a uniformly high rate of susceptibility (72.2 per cent) that further preliminary Schick tests in this community were abandoned. Since this general immunization only one case of diphtheria has occurred, that case being in a Schick-positive child whose parents refused consent to immunization.

Subsequently, as a result of the efforts of the county health officer and the public health nurse, children in the following additional towns in Contra Costa County were tested: Lafayette, a small farming community (78.7 per cent susceptible), Crockett (60.2 per cent), Bay Point (62.9 per cent), Selby (73.4 per cent), and Port Costa (85.2 per cent), small industrial ports on the San Francisco Bay. With the exception of Pinole and Crockett, these villages in Contra Costa County are grouped as Contra Costa County rural (75.4 per cent susceptible).

The first observations made in San Joaquin County were made in Tracy. The community is rural in character, the school children coming from neighboring ranches. The percentage of susceptible individuals was 75.6. The West Side Grammar School received children from the most congested district, including the Mexican quarter. More children in this school were immune than children of corresponding ages in other grammar schools in Tracy.

The next three groups tested in San Joaquin County were children in (a) Lodi, (b) the Lodi Academy, and (c) the district schools near

Lodi. Diphtheria had recurred epidemically in Lodi over a period of three years. The town is in the center of a rich agricultural district and has a considerable foreign population. Only a small proportion of the school population was tested. Reference to Table 2 will show that the lowest percentage of susceptible persons in San Joaquin County was among these Lodi school children. The Lodi Academy can not be classed as a boarding school, as the majority of the students are day pupils from outlying rural districts. This probably accounts for the greater susceptibility (70.6 per cent) observed in this group, even though the majority of persons were in higher age groups than those in the Lodi schools. The group referred to as "Lodi rural" showed the highest percentage of susceptibility (76.3 per cent) of these Lodi groups.

Manteca, the other San Joaquin County community in which tests were made, is a small village. The percentage of susceptible persons (71.5 per cent) was the same there as in other villages of its size.

Mendocino County, a county on the northern coast, was the last district in which tests were made. Ukiah, the largest city in the county, showed 79 per cent of susceptibles. The rural districts in Mendocino County are the most isolated of any of the communities in which the Schick tests were performed. The lessened opportunities for contact are indicated by the great number of susceptible persons found (83.4 per cent).

#### TESTS ON INMATES OF INSTITUTIONS

The first group of institutional children to be tested consisted of the inmates of the California School for the Deaf and Blind, in Berkeley. For many years the routine of the school had been disrupted periodically by outbreaks of diphtheria, and the school authorities were anxious to have the Schick test applied and the susceptibles immunized. Practically all the children in the school were tested in 1922. The low percentage of susceptible persons (38.2 per cent) is exceeded only in the Sonoma State Home. Since 1922 susceptible new inmates have been immunized and the school has had no diphtheria. Morphologically positive cultures from an inmate with a sore throat proved to be nonvirulent.

The largest institutional group to be tested was at the Sonoma State Home, at Eldridge, Sonoma County. The institution houses mental defectives of all ages and grades. The medical director requested the Schick test because of periodic outbreaks of diphtheria. The age distribution and the reactions are indicated in Table 1. Immediately following the Schick tests, the nonimmunes (22.2 per cent) were immunized, and they were later retested. At present the blood of all entrants is subjected to the Kellogg test (4) and the

nonimmunes are immunized. It is proposed to apply Schick tests annually to those who have received toxin-antitoxin in the preceding year. Since the general administration of toxin-antitoxin, there have been four cases of diphtheria in this institution. Two of these occurred in attendants who had not been tested and who had not received toxin-antitoxin. The other two cases occurred in inmates whose Schick tests gave negative results. One of these inmates who had given a negative Schick reaction had a broncho-pneumonia of several weeks' duration, followed by a condition diagnosed clinically as laryngeal diphtheria, which terminated fatally. Diphtheria organisms were never found in cultures from this patient. The other patient who had given a negative-pseudo reaction, later developed clinical diphtheria, with morphologically positive cultures, though the virulence of these organisms was not tested.

The children of the Presbyterian Orphanage, at San Anselmo, Marin County, were tested in 1923. The majority of the children are "half" orphans or children from broken homes who are placed there by relatives. Only a small proportion is committed by the courts. The high rate of susceptibility (44.6 per cent) is remarkable for inmates of such an institution.

The Salvation Army Home at Lytton, Sonoma County, cares for children committed by the courts. Compared to the Presbyterian Orphanage this group was found to be much less susceptible (26.9 per cent) and can be classed with the School for the Deaf and Blind and the Sonoma State Home. These two orphanages house children of practically the same ages and races. The difference in susceptibility is probably dependent upon differences in contact in the pre-institutional environment.

#### TESTS ON COLLEGE STUDENTS

The group tested at the San Jose Teachers College and Training School (Table 1) includes a majority of individuals of the higher age groups. Only 99, or 26 per cent, of this group are school children. The majority of the students in the Teachers College are young women from the rural high schools of the State, which may account for the high percentage of susceptibility (81.4 per cent).

The group tested at the University of California showed a susceptibility of 69.7 per cent.

#### DISCUSSION

Our findings of a higher percentage of pseudo or protein reactions among immunes than nonimmunes, 32.6 per cent as against 8.5 per cent (Table 3), confirms the observations of Zingher (2) and others.

The greater susceptibility among females is shown in Table 3 and Chart 1. This has been uniformly found by others and is probably explained by the greater possibility for contact among males.

The effect of institutional contact in producing immunity is clearly shown in Table 4 and Chart 2. The high percentage of susceptibility among the young adults in the State Teachers College and the University of California is also shown in this table and chart. The difference between the two groups is probably due to the high proportion of women in the Teachers College.

For convenience in comparing the results of this study with those obtained by other observers, they have been grouped as follows: (1) Rural school children, (2) children in institutions, (3) adults in institutions, (4) young adult students. Observations among rural school children are shown in Table 5. In California the percentage

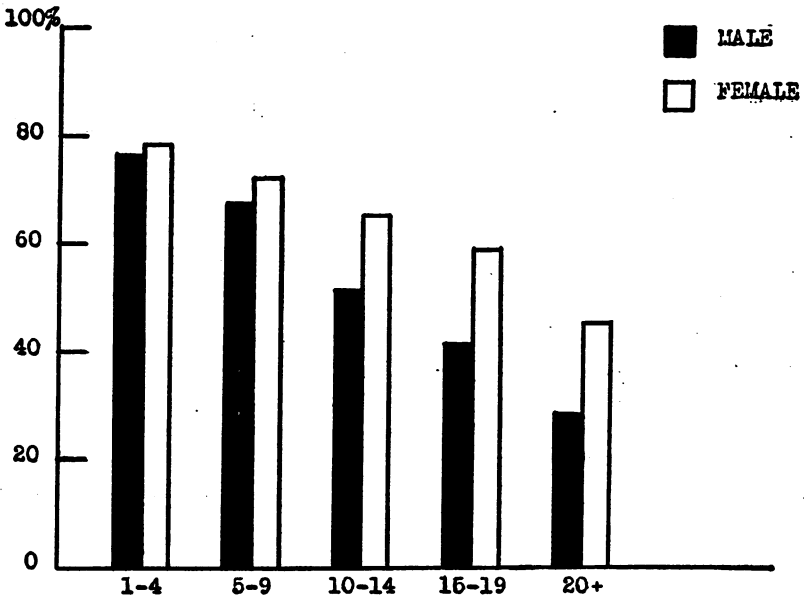


CHART 1.—Relative susceptibility of sexes by age groups (Schick reactions, California)

of susceptibility was 70.1, in Massachusetts 71.5 (White (5)), and in Vermont 75.9 (Kidder (6)). In Mendocino County, which represented the most rural district and where diphtheria had not been unduly prevalent, the percentage of susceptibility was 80.1 per cent. It would seem that such a high percentage of susceptibility would warrant the giving of toxin-antitoxin to such groups without the necessity of applying the Schick test, except as a means of ascertaining the efficacy of immunization.

Our observations of institutional groups and those of other investigators are given in Table 6. The susceptibility in such groups varies greatly, due to the amount of diphtheria previously in the institution, the closeness of the contact, and the preinstitutional environment of the inmates. Dudley (7) found a low degree of susceptibility (14 per cent) in a naval preparatory school in England where

there had been definite epidemics of diphtheria and where the contact was close. Sanford (8), White (5), and Fleischner (9) found a high degree of susceptibility in institutions where children came from more protected homes and where institutional contact was not so great.

The percentage of susceptibility among adults in institutions is affected by the same factors which determine the rate for children in institutions, but, as would be expected, is somewhat lower. The only high rate of susceptibility (61 per cent) is reported by White

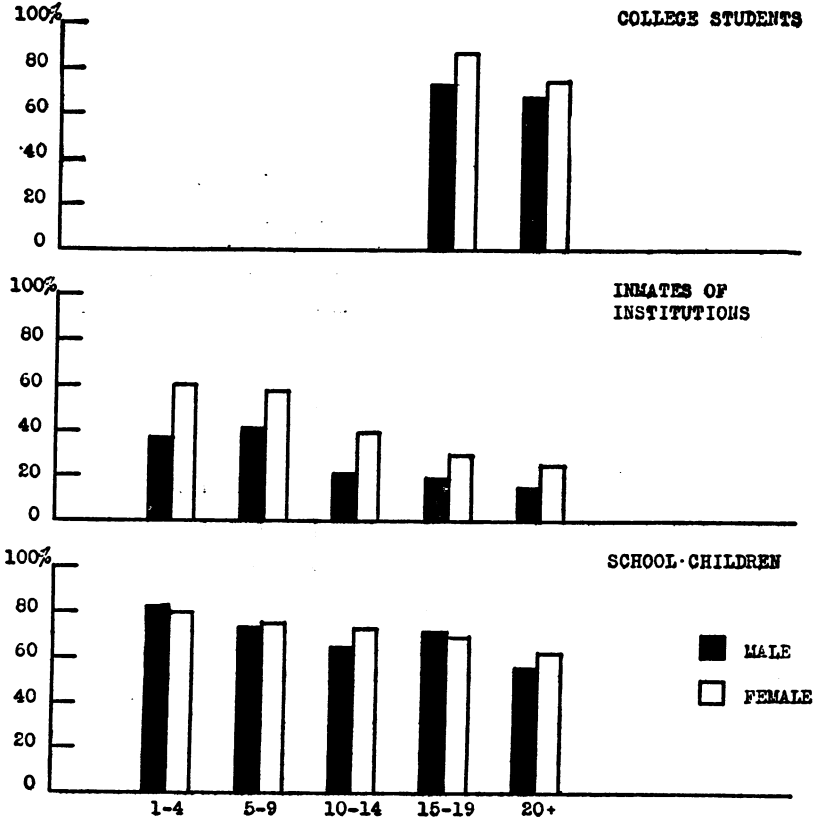


CHART 2.—Diphtheria susceptibility in three groups, by age and sex (Schick reactions, California)

(5), who is at a loss to account for it. Our findings are somewhat higher than those of other observers.

Table 8 shows that 69.6 per cent of the University of California students tested were susceptible to diphtheria. This is a higher percentage of susceptibility than any other comparable group reported except that reported by White (5) in Smith College students, of whom he found 77 per cent to be susceptible. Other observers have found the susceptibility of such groups to vary from 40 to 67 per cent.

In Chart 3 the various groups tested are arranged in order of increasing susceptibility. It will be noted that the list is headed by the institutional groups, which are immediately followed by two communities where diphtheria has been recurrently epidemic. The lower positions in the list are occupied by the more isolated groups. The difference in position of the two groups of college students is probably due to the higher percentage of women tested at the State Teachers College (87.7 per cent) as compared with the University of California (65.9 per cent), and also to the fact that the student body of the Teachers College is recruited from rural communities, whereas that of the University of California is more metropolitan in character.

Sonoma State Home	22.2	██████████
Salvation Army Home	26.9	██████████
State School for Deaf and Blind,	38.2	██████████
Presbyterian Orphanage	44.6	██████████
Lodi	59.8	██████████
Crockett	60.2	██████████
Students, University of California	69.7	██████████
Lodi Academy	70.6	██████████
Manteca	71.5	██████████
Pinole	72.2	██████████
Contra Costa Rural	75.4	██████████
Tracy	75.6	██████████
Lodi Rural	76.3	██████████
Ukiah	79.0	██████████
San Jose Teachers College and Training School	81.4	██████████
Mendocino Rural	83.4	██████████

CHART 3.—Groups arranged in order of susceptibility (Schick reactions, California)

#### CONCLUSIONS

Our study of susceptibility to diphtheria in California confirms the following observations made by other investigators elsewhere:

1. There is a higher percentage of protein reactions among immunes than nonimmunes.
2. There is a higher degree of susceptibility among females than males.
3. The percentage of susceptibility among rural school children is relatively high.
4. The percentage of susceptibility among children and adults in institutions is relatively low.
5. The percentage of susceptibility among university students and comparable groups of young adults is relatively high.

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TABLE 1.—Schick reactions in California, by location and age groups

Location, age, and sex		Total reactions			Protein reactions		
		Number of tests	Positive	Negative	Number	Com- bined positive	Negative pseudo
<b>BAY POINT</b>							
<i>Years</i>							
1-4	M	1	1				
	F	18	15	3			
5-9	M	12	7	5	1		1
	F	14	6	8			
10-14	M	13	7	6	2		2
	F	1	1				
15-19	M	1	1				
	F	2	1	1			
20+	M	4	3	1			
	F	3	2	1	1	1	
5-9	M	90	58	32	6		6
	F	105	66	39	9	2	7
10-14	M	78	42	36	9	3	6
	F	84	47	37	14	2	12
15-19	M	18	13	5	2	1	1
	F	31	15	16	5	2	3
20+	M	5	4	1	1	1	
	F	4	4				
<b>CROCKETT</b>							
1-4	M	1	1				
	F	1	1				
5-9	M	21	16	5	2		2
	F	25	21	4	2	1	1
10-14	M	21	18	3	2	1	1
	F	16	11	5	2		2
15-19	M	2	1	1	1		1
	F	1	1				
20+	M	1	1	1	1		1
	F	5	4	1	1		1
<b>LAFAYETTE</b>							
1-4	M	6	5	1	1	1	
	F	13	9	4			
5-9	M	57	42	15	2		2
	F	56	41	15	4	1	3
10-14	M	62	42	20	12	8	4
	F	65	47	18	8	4	4
15-19	M	19	13	6	2	2	
	F	39	32	7	1		1
20+	M	10	5	5	2	2	
	F						
<b>PINOLE</b>							
1-4	M	13	9	4			
	F	13	13				
5-9	M	21	16	5	1		1
	F	27	21	6	1	1	
10-14	M	13	5	8	2	1	1
	F	20	15	5			
15-19	M	2	1	1			
	F						
20+	M						
	F						
<b>SELBY</b>							
1-4	M	2	2				
	F	1	1				
5-9	M	10	10				
	F	22	20	2			
10-14	M	18	13	5	3	1	2
	F	15	12	3	2	2	
15-19	M						
	F						
20+	M						
	F						
<b>PORT COSTA</b>							
1-4	M	3	3				
	F	5	4	1			
5-9	M	24	22	2			
	F	29	26	3			
10-14	M	28	22	6			
	F	29	27	2			
15-19	M	6	5	1			1
	F	10	7	3	1		
20+	M	2	2				
	F	14	9	5	1		1
<b>MENDOCINO, RURAL</b>							
1-4	M	3	3				
	F	5	4	1			
5-9	M	24	22	2			
	F	29	26	3			
10-14	M	28	22	6			
	F	29	27	2			
15-19	M	6	5	1			1
	F	10	7	3	1		
20+	M	2	2				
	F	14	9	5	1		1

TABLE 1.—Schick reactions in California, by location and age groups—Continued

Location, age, and sex		Total reactions			Protein reactions		
		Number of tests	Positive	Negative	Number	Com- bined positive	Negative pseudo
UKIAH							
1-4	(M)	7	7				
	(F)	7	7				
5-9	(M)	65	50	15	2	1	1
	(F)	61	52	9	1		1
10-14	(M)	65	51	14	4	3	1
	(F)	61	49	12	2	1	1
15-19	(M)	16	12	4			
	(F)	27	21	6	1		1
20+	(M)	10	6	4			
	(F)	30	20	10	1		1
LODI							
1-4	(M)	8	7	1			
	(F)	6	3	3			
5-9	(M)	150	92	58	16	7	9
	(F)	150	94	56	21	7	14
10-14	(M)	170	80	90	48	12	36
	(F)	182	119	63	33	7	26
15-19	(M)	38	28	10	9	4	5
	(F)	56	32	24	13	6	13
20+	(M)	6	3	3	2	1	1
	(F)	10	6	4	4	1	3
LODI ACADEMY							
1-4	(M)	3	1	2			
	(F)	6	5	1			
5-9	(M)	24	16	8	4	3	1
	(F)	35	27	8	2	1	1
10-14	(M)	46	33	13	7	2	5
	(F)	42	33	9	8	4	4
15-19	(M)	67	47	20	10	3	7
	(F)	71	55	16	12	6	6
20+	(M)	22	11	11	7		7
	(F)	27	14	13	10	2	8
LODI RURAL							
1-4	(M)	2	2				
	(F)	2	2				
5-9	(M)	73	58	15	7	4	3
	(F)	76	61	15	10	5	5
10-14	(M)	79	58	21	10	5	5
	(F)	81	62	19	7	4	3
15-19	(M)	11	7	4	3	1	2
	(F)	7	5	2	2	1	1
20+	(M)	2	2				
	(F)	16	9	7	7	2	5
MANTECA							
1-4	(M)						
	(F)	2	2				
5-9	(M)	37	29	8	1	1	3
	(F)	35	26	9	5	2	3
10-14	(M)	52	36	16	10	4	6
	(F)	39	25	14	7	2	5
15-19	(M)	8	5	3	1		1
	(F)	3	3				
20+	(M)	1	1				
	(F)	2	1	1			
TRACY							
1-4	(M)	7	6	1			
	(F)	12	9	3			
5-9	(M)	93	69	24	2		2
	(F)	96	74	22	2		2
10-14	(M)	78	56	22	7		7
	(F)	89	72	17	9	5	4
15-19	(M)	16	11	5	3		3
	(F)	24	17	7	5		5
20+	(M)	1	1				
	(F)	6	5	1	1		1
STATE TEACHERS COLLEGE AND TRAINING SCHOOL, SAN JOSE							
1-4	(M)						
	(F)	7	4	3			
5-9	(M)	19	16	3			
	(F)	20	19	1			
10-14	(M)	30	21	9	2		2
	(F)	23	20	3	2	1	1
15-19	(M)	19	14	5	2	1	1
	(F)	127	110	17	10	3	7
20+	(M)	16	10	6	2		2
	(F)	115	92	23	11	1	10

TABLE 1.—Schick reactions in California, by location and age groups—Continued.

Location, age, and sex	Total reactions			Protein reactions		
	Number of tests	Positive	Negative	Number	Com- bined positive	Negative pseudo
<b>STUDENTS' UNIVERSITY OF CALIFORNIA</b>						
1-4.....	{M					
	{F					
5-9.....	{M					
	{F					
10-14.....	{M					
	{F					
15-19.....	{M					
	{F					
20+.....	{M	112	76	36	29	10
	{F	217	153	64	43	16
<b>STATE SCHOOL FOR DEAF AND BLIND</b>						
1-4.....	{M					
	{F					
5-9.....	{M	35	18	17	4	2
	{F	35	30	5	3	3
10-14.....	{M	74	13	61	20	2
	{F	62	26	36	11	2
15-19.....	{M	63	12	51	25	2
	{F	62	27	35	17	4
20+.....	{M	6	1	5	3	3
	{F	4	3	1		
<b>SONOMA STATE HOME</b>						
1-4.....	{M	6	2	4		
	{F	3	1	2		
5-9.....	{M	50	17	33	2	1
	{F	33	13	20	5	3
10-14.....	{M	130	18	112	33	2
	{F	91	33	58	20	7
15-19.....	{M	186	37	149	65	11
	{F	144	35	109	44	6
20+.....	{M	482	76	406	240	32
	{F	563	142	421	218	57
<b>SAN ANSELMO PRESBYTERIAN ORPHANAGE</b>						
1-4.....	{M	2	1	1		
	{F	2	2			
5-9.....	{M	17	7	10	2	1
	{F	15	8	7		
10-14.....	{M	31	15	16	5	1
	{F	11	5	6	1	1
15-19.....	{M	10	3	7	4	1
	{F	6	1	5	1	1
20+.....	{M					
	{F					
<b>SALVATION ARMY HOME FOR CHILDREN, LYTTON</b>						
1-4.....	{M					
	{F					
5-9.....	{M	23	10	13	6	3
	{F	11	3	8	2	1
10-14.....	{M	86	23	63	18	5
	{F	30	11	19	7	1
15-19.....	{M	29	2	27	8	1
	{F	5		5	3	3
20+.....	{M					
	{F	2	1	1		
Total.....		6,664	3,691	2,973	1,288	318
						970

TABLE 2.—Schick reactions in California, by location

Location	Number tested	Number positive	Number negative	Per cent susceptible	Protein reactions					
					Total		Combined positive		Negative pseudo	
					Number	Per cent of total	Number	Per cent of positives	Number	Per cent of negatives
Contra Costa rural.....	333	251	82	75.4	23	6.9	7	2.8	16	19.5
Crockett.....	422	254	168	60.2	47	11.1	12	4.7	35	20.8
Pinole.....	327	236	91	72.2	32	9.7	18	7.6	14	15.4
Mendocino rural.....	150	125	25	83.4	2	1.3	0	0	2	8.0
Ukiah.....	349	275	74	79.0	11	3.1	5	1.8	6	8.1
Lodi.....	776	464	312	59.8	146	18.8	39	8.4	107	34.3
Lodi Academy.....	343	242	101	70.6	60	17.4	21	8.6	39	38.6
Lodi rural.....	349	266	83	76.3	46	13.2	22	8.3	24	28.9
Manteca.....	179	128	51	71.5	24	13.4	9	7.0	15	29.4
Tracy.....	422	319	103	75.6	29	6.8	5	1.5	24	23.3
State Teachers College and Training School, San Jose.....	376	306	70	81.4	29	7.7	6	1.9	23	32.8
Students, University of California.....	329	229	100	69.7	72	21.9	26	11.3	46	46.0
State School for Deaf and Blind.....	341	130	211	38.2	83	24.3	15	11.5	68	32.2
Sonoma State Home.....	1,688	374	1,314	22.2	627	37.1	119	31.8	508	35.7
San Anselmo Presbyterian Orphanage.....	94	42	52	44.6	13	13.8	3	7.1	10	19.2
Salvation Army Home for Children, Lytton.....	186	50	136	26.9	44	23.7	11	22.0	33	24.3
Total.....	6,664	3,691	2,973	55.4	1,288	19.3	318	8.6	970	32.6

TABLE 3.—Schick reactions in California, by age groups

Age and sex	Number tested	Number positive	Number negative	Per cent susceptible	Protein reactions						
					Total		Combined positive		Negative pseudo		
					Number	Per cent of total	Number	Per cent	Number	Per cent	
<i>Years</i>											
1-4.....	M.....	64	49	15	76.6	1	1.5	1	2.0	-----	-----
	F.....	84	66	18	78.7	1	1.2	1	1.5	-----	-----
5-9.....	M.....	827	561	266	67.9	57	6.9	23	4.1	34	12.8
	F.....	843	609	234	72.4	68	8.1	27	4.4	41	17.5
10-14.....	M.....	1,075	552	523	51.4	192	17.8	50	9.0	142	27.2
	F.....	953	621	332	65.2	135	14.2	42	6.7	83	28.0
15-19.....	M.....	509	211	298	41.5	135	26.5	27	12.8	108	36.3
	F.....	615	362	253	59.0	115	18.7	22	6.0	93	36.8
20+.....	M.....	667	191	476	28.7	285	42.7	44	23.0	241	50.6
	F.....	1,027	469	558	45.7	299	29.1	81	17.3	218	39.1
Total.....		6,664	3,691	2,973	55.4	1,288	19.3	318	8.6	970	32.6

TABLE 4.—Schick reactions in California—Rural schools, institutions, college, and university

Group, age, and sex	Number tested	Number positive	Number negative	Per cent susceptible	Protein reactions					
					Total		Combined positive		Negative pseudo	
					Number	Per cent	Number	Per cent	Number	Per cent
<b>SCHOOLS IN CONTRA COSTA COUNTY, SAN JOAQUIN COUNTY, MENDOCINO COUNTY, SAN JOSE TRAINING SCHOOL</b>										
<i>Years</i>										
1-4.....	(M) 56	46	10	82.1	1	1.7	1	2.2		
	(F) 79	63	16	79.8	1	1.2	1	1.6		
5-9.....	(M) 702	509	193	72.6	43	6.1	16	3.1	27	14.0
	(F) 749	555	194	74.2	58	7.7	20	3.6	38	19.6
10-14.....	(M) 754	483	271	64.1	116	15.4	40	8.3	76	28.0
	(F) 759	546	213	72.0	96	12.6	32	5.8	64	30.0
15-19.....	(M) 202	143	59	70.9	31	15.4	11	7.7	20	34.0
	(F) 271	189	82	69.8	40	14.8	9	4.7	31	37.8
20+.....	(M) 51	28	23	54.9	11	21.5	2	7.1	9	39.1
	(F) 126	78	48	62.0	27	21.4	7	9.0	20	41.7
<b>INSTITUTIONS: ELDRIDGE, DEAF AND BLIND, PRESBYTERIAN ORPHANAGE, SALVATION ARMY</b>										
1-4.....	(M) 8	3	5	37.5						
	(F) 5	2	2	60.0						
5-9.....	(M) 125	52	73	41.7	14	11.2	7	13.5	7	9.6
	(F) 94	54	40	57.5	10	10.6	7	13.0	3	7.5
10-14.....	(M) 321	69	252	21.5	76	23.7	10	14.5	66	26.2
	(F) 194	75	119	38.7	39	20.1	10	13.3	29	24.4
15-19.....	(M) 288	54	234	18.8	102	35.4	15	27.8	87	37.2
	(F) 217	63	154	29.0	65	30.0	10	15.9	55	35.7
20+.....	(M) 488	77	411	15.8	243	49.8	32	41.6	211	51.2
	(F) 369	146	423	25.7	218	38.3	57	39.1	161	38.1
<b>UNIVERSITY OF CALIFORNIA AND STATE TEACHERS COLLEGE</b>										
15-19.....	(M) 19	14	5	73.7	2	10.5	1	7.1	1	20.0
	(F) 127	110	17	86.6	10	7.8	3	2.7	7	41.2
20+.....	(M) 128	86	42	67.2	31	24.2	10	11.6	21	50.0
	(F) 332	245	87	73.8	54	16.2	17	6.9	37	42.5
	6,664	3,691	2,973	55.4	1,288	19.3	318	8.6	970	32.6

TABLE 5.—Schick reactions—Rural school children

Observer	Group	Age group	Number tested	Per cent susceptible
Kidder (6)	Rural school, Vermont	School children	2,030	73.9
White (5)	Massachusetts towns below 10,000 population.	do.	2,135	72.5
Kelly, Stevens, and Beattie.	Contra Costa County, Calif.	do.	1,054	68.5
Do.	San Joaquin County, Calif.	do.	1,976	68.5
Do.	Mendocino County, Calif.	do.	443	80.1

TABLE 6.—*Schick reactions—Children in institutions*

Observer	Institution	Age group	Number tested	Per cent susceptible
Dudley (7)	Naval preparatory school, England	16	831	14.0
Fleischner (9)	Boys' school, California	8-18	150	65.0
Sanford (8)	St. Paul's Boys' School, Massachusetts		379	86.5
White (5)	Miss Winsor's Girls' School, Massachusetts		113	94.7
Neff (10)	Orphans' home, Kansas City			43.7
Copeman et al. (11)	Mitcham poor law schools, England	3-16	300	31.0
Blum (12)	Large child-caring institution	1-6	1,076	37.7
O'Brien et al. (13)	Children in institution, England		734	27.0
Chown (14)	Children's home, Winnipeg	1-15	156	58.9
Sears (15)	Orphanage, New York		58	70.6
Bullen (16)	Orphanage, Rochester, N. Y.	1-17	132	35.6
Lilly (17)	Boys' industrial school, Massachusetts	15-21	257	57.5
Kelly, Stevens, and Beattie	California School, Deaf and Blind, Berkeley	5-20	341	38.2
Do	Presbyterian Orphanage, San Anselmo	1-20	94	44.6
Do	Salvation Army Home, Lytton	5-20	186	26.9
Do	Sonoma State home, Eldridge	1-20	643	24.4

TABLE 7.—*Schick reactions—Adults in institutions*

Observer	Institution	Number tested	Per cent susceptible
Schroder by Park (18)	For insane	4,396	16.0
Zingher (2)	do	6,000	8.0
White (5)	do	1,462	61.0
Do	United States Government hospital, Massachusetts	792	13.7
Kelly, Stevens, and Beattie	Sonoma State Home for Feeble-minded, California	1,045	20.8

TABLE 8.—*Schick reactions—Young adult students*

Observer	Group	Number tested	Per cent susceptible
White (5)	Smith College, Massachusetts		77.0
Kelly, Stevens, and Beattie	University of California, Berkeley	329	69.7
White (5)	Nurses, Massachusetts	658	52.3
Hooker (19)	Medical students and nurses, Boston	500	60.0
Muslow (20)	Nurses, Chicago	97	67.0
Do	Medical students, Chicago	40	66.0
Garland (21)	Nurses and physicians, Massachusetts	350	56.0
Weaver and Rapport (22)	Nurses, Chicago	115	53.9
Do	Medical students, Chicago	51	43.1
Cooke (23)	Nurses, St. Louis	147	41.5
Peters (24)	Nurses and physicians, England	212	40.0
O'Brien et al. (13)	Medical students, England	160	65.0
Do	Nurses, England	22	55.0

## PUBLIC HEALTH SERVICE PUBLICATIONS

### A List of Publications Issued During the Period April-October, 1925

Below is given a list of publications of the United States Public Health Service issued during the period April-October, 1925, inclusive.

The most important articles that appear each week in the PUBLIC HEALTH REPORTS are reprinted in pamphlet form, making possible a wider and more economical distribution of articles that are of interest to public health workers and the general public.

All of the publications listed here, except those marked with an asterisk (\*), are available for free distribution and, as long as the supply lasts, may be obtained by addressing the Surgeon General, United States Public Health Service, Washington, D. C. Those publications marked with an asterisk are not available for free distribution, but may be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the prices noted. (No remittances should be sent to the Public Health Service.)

#### Reprints from the Public Health Reports

1000. Vaccination by Mouth Against Bacillary Dysentery. By Ella M. A. Enlows. April 3, 1925. 10 pages.
1001. Studies on Oxidation-Reduction. VII. A Study of Dichloro Substitution Products of Phenol Indophenol. By H. D. Gibbs, Barnett Cohen, and R. K. Cannan. April 3, 1925. 16 pages.
1002. Report of Division of Venereal Diseases July 1-December 31, 1924. April 10, 1925. 4 pages.
1003. Public Health Service Publications. A List of Publications Issued During the Period April, 1924, to March, 1925. April 10, 1925. 7 pages.
1004. Studies on the Industrial Dust Problem. II. A Review of the Methods Used for Sampling Aerial Dust. By Leonard Greenburg. April 17, 1925. 22 pages.
1005. Viability of *B. Typhosus* in Stored Shell Oysters. By Conrad Kinyoun. April 24, 1925. 5 pages.
1006. The Classification of Causes of Sickness (Tentative List). April 24, 1925. 6 pages.
1007. Application of the Ramon Flocculation Principle to the Titration of Scarlet Fever Streptococcus Toxin and Antitoxin. By R. E. Dyer. May 1, 1925. 4 pages.
1008. Some Effects of High Environmental Temperatures on the Organism. By Frederick B. Flinn. May 1, 1925. 29 pages.
1009. Yeast in the Treatment of Pellagra and Black Tongue. A Note on Dosage and Mode of Administration. By Joseph Goldberger, G. A. Wheeler, and W. F. Tanner. May 8, 1925. 2 pages.
1010. Extent of Rural Health Service in the United States 1921-1925. By L. L. Lumsden. May 8, 1925. 11 pages.
1011. Cooperative County Health Work. By Thomas Parran, Jr. May 15, 1925. 10 pages.
1012. Whole-Time County Health Officers, 1925. May 15, 1925. 5 pages.
1013. Status of Vaccination in American Colleges. By Robert T. Legge. May 22, 1925. 5 pages.
1014. The Supplying of Drinking Water to Vessels in the United States. By Joel I. Connolly and A. E. Gorman. May 22, 1925. 14 pages.
1015. The Effective Agent in the Prevention or Alleviation of the Chittenden-Underhill Pellagra-Like Syndrome in Dogs. By Frank P. Underhill and Lafayette B. Mendel. May 29, 1925. 4 pages.
1016. Biological Products. Establishments Licensed for the Propagation and Sale of Viruses, Serums, Toxins, and Analogous Products. May 29, 1925. 4 pages.
1017. Studies on Oxidation-Reduction. VIII. Methylene Blue. By W. Mansfield Clark, Barnett Cohen, and H. D. Gibbs. June 5, 1925. 70 pages.
1018. A Method for the Examination of Neoarsphenamine and Sulfarsphenamine. By Elias Elvove. June 12, 1925. 15 pages.

1019. Canyon Automobile Camp, Yellowstone National Park. By Isador W. Mendelsohn. June 12, 1925. 12 pages.
1020. An Outbreak of Typhoid Fever Caused by Milk-Borne Infection. By L. L. Lumsden. June 19, 1925. 15 pages.
1021. Tetanus in the United States Following the Use of Bunion Pads as a Vaccination Dressing. By Charles Armstrong. June 26, 1925. 6 pages.
1022. Studies of Impounded Waters in Relation to Malaria. By E. H. Gage. June 26, 1925. 19 pages.
1023. Some Properties of Iron Compounds and Their Relation to Water Clarification. By Lewis B. Miller. July 3, 1925. 8 pages.
1024. The Chronological Development of Federal Health Legislation and Public Health and Medical Activities. By James A. Tobey. July 3, 1925. 5 pages.
1025. City Health Officers, 1925. Directory of Those in Cities of 10,000 or More Population. July 3, 1925. 12 pages.
1026. The Bio-Assay of Thyroid. By Reid Hunt. July 10, 1925. 6 pages.
1027. Standardization of Pollen Extracts by the Complement-Fixation Test. By Charles Armstrong and W. T. Harrison. July 10, 1925. 6 pages.
1028. Notes on the Clarification of Colored Waters. By Lewis B. Miller. July 10, 1925. 9 pages.
1029. Drinking Water Standards. Standards Adopted by the Treasury Department June 20, 1925, for Drinking and Culinary Water Supplied by Common Carriers in Interstate Commerce. April 10, 1925. 28 pages.
1030. The Rat-Proofing of Vessels. By S. B. Grubbs and B. E. Holsendorf. July 17, 1925. 9 pages.
1031. Strabismus and Defective Color Sense Among School Children. By Selwyn D. Collins. July 17, 1925. 9 pages.
1032. A Plan to Establish in the United States a Morbidity Registration Area; That is, an Area for the More Complete Collection of Data Relating to the Diseases of Man. By B. J. Lloyd. July 24, 1925. 12 pages.
1033. Studies on the Industrial Dust Problem. III. Comparative Field Studies of the Palmer Apparatus, the Konimeter, and the Impinger Methods for Sampling Aerial Dust. By Leonard Greenburg. July 31, 1925. 13 pages.
1034. The Trend of Pneumonia in Massachusetts. By Eugene R. Kelley and Angeline D. Hamblen. August 7, 1925. 14 pages.
1035. The Legal Authority and Limitations Governing Federal Public Health Activities. By J. W. Kerr. August 14, 1925. 10 pages.
1036. The Administration of Mercurial Preparations in Leprosy. Preliminary Report I—Mercurochrome Soluble 220. By Oswald E. Denney, Ralph Hopkins, Jerald G. Wooley, and Boyd G. Barentine. August 28, 1925. 14 pages.
1037. Destruction of Cockroaches and Devitalization of Their Eggs by Cyanogen-Chloride Mixture. By C. E. Rice. 3 pages.
1038. The Notifiable Diseases. Prevalence During 1924 in Cities of Over 100,000 Population. September 4, 1925. 32 pages.
1039. A Comparative Study of Rat-Flea Data for Several Seaports of the United States. By Carroll Fox and E. C. Sullivan. September 11, 1925. 26 pages.
1040. A Disease in Wild Rats with Gross Pathology Resembling Plague. By N. E. Wayson. September 18, 1925. 5 pages.
1041. A Note on the Method Used to Prevent the Importation of Smallpox into the Philippine Islands. By H. F. Smith and R. W. Hart. September 18, 1925. 4 pages.



1042. *Stream Pollution by Wastes from By-Product Coke Ovens. A Review, with Special Reference to Methods of Disposal.* By R. D. Leitch. September 25, 1925. 6 pages.
1043. *State and Insular Health Authorities, 1925. Directory, with Data as to Appropriations and Publications.* September 25, 1925. 21 pages.
1044. *The Accuracy of Certified Causes of Death. Its Relation to Mortality Statistics and the International List. (Committee Report.)* October 2, 1925. 43 pages.
1045. *Relative Values of Methods of Enumerating Bacteria in Air.* By W. J. McConnell and B. G. H. Thomas. October 9, 1925. 11 pages.
1046. *Studies of Impounded Waters in Relation to Malaria. The Trend of Malaria in Horse Creek Valley, Aiken County, S. C.* By E. H. Gage. October 16, 1925. 9 pages.
1047. *Cooperative Rural Health Work of the Public Health Service in the Fiscal Year 1925.* By L. L. Lumsden. October 23, 1925. 35 pages.
1048. *The Notifiable Diseases. Prevalence During 1924 in Cities of 10,000 to 100,000 Population.* October 30, 1925. 107 pages.

#### Supplements to the Public Health Reports

49. *State Public Health Laws and Regulations Adopted During 1923.* Compiled by Jason Waterman and William Fowler. 1925. 485 pages.

#### Public Health Bulletins

110. *A Synopsis of the Child Hygiene Laws of the Several States, Including School Medical Inspection Laws.* By Taliaferro Clark and Selwyn D. Collins. Revised May, 1925. 72 pages.
- \*146. *A Study of the Pollution and Natural Purification of the Ohio River. III. Factors Concerned in the Phenomena of Oxidation and Reaeration.* By H. W. Streeter and Earle B. Phelps. February, 1925. 75 pages. 15 cents.
- \*147. *Commercial Pasteurization. A Report Prepared by Charles E. North, William H. Park, V. A. Moore, Milton J. Rosenau, Charles Armstrong, Augustus B. Wadsworth, and Earle B. Phelps.* February, 1925. 217 pages. 35 cents.
- \*148. *Mental Hygiene with Special Reference to the Migration of People.* By Walter L. Treadway. February, 1925. 190 pages. 25 cents.
149. *Transactions of the Twenty-Second Annual Conference of State and Territorial Health Officers with the United States Public Health Service, held at Chicago, Ill., June 11, 12, and 13, 1924.* February, 1925. 157 pages.
- \*150. *Carbon-Monoxide Literature.* By R. R. Sayers and Sara J. Davenport. April, 1925. 54 pages. 10 cents.
152. *A Study of Courses in Health Education.* By Myra Hulst Harman and Taliaferro Clark. April, 1925. 53 pages.
154. *Transactions of the Fifth Annual Conference of State Sanitary Engineers, held at Cincinnati, Ohio, May 26, 27, and 28, 1924.* April, 1925. 160 pages.
158. *Proceedings of a Conference to Determine Whether or Not There is a Public Health Question in the Manufacture, Distribution, or Use of Tetraethyl Lead Gasoline, held at Washington, D. C., May 20, 1925.* August, 1925. 116 pages.

**Hygienic Laboratory Bulletins**

- \*140. Key-Catalogue of the Protozoa Reported for Man. By C. W. Stiles and Albert Hassall. May, 1925. 67 pages. 10 cents.
- \*141. Studies on Pneumococcus Immunity. · IV. Active Immunization of Monkeys against Pneumococcus Pneumonia by Means of Intratracheal Injections of Pneumococcus Vaccine. By Russell L. Cecil and Gustav I. Steffen. V. The Treatment of Experimental Pneumococcus Pneumonia in Monkeys with Pneumococcus Antibody Solution. By Russell L. Cecil and Gustav I. Steffen. VI. The Fate of Pneumococcus Protective Bodies When Injected into Normal Animals and Man. By Dorothy R. Rhoades. VII. The Protective Substance in Pneumococcus Pneumonia with Special Reference to Bacteriemia and Specific Treatment. By Horace S. Baldwin and Dorothy R. Rhoades. The Use of Optochin Base in the Treatment of Lobar Pneumonia. By Horace S. Baldwin and Dorothy R. Rhoades. April, 1925. 78 pages. 20 cents.

**Venereal Disease Publications**

- Venereal Disease Bulletin No. 80. Health Maintenance—The Relief and Prevention of Venereal Diseases.
- Venereal Disease Information No. 4. Clinical Examination of the Syphilitic Patient. By Joseph V. Klauder.

**Miscellaneous Publications**

- 11. Official List of Commissioned and Other Officers of the United States Public Health Service; also List of U. S. Marine Hospitals, Quarantine, Immigration, Relief Stations, and Quarantine Vessels. July 1, 1925. 71 pages.

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**DEATHS DURING WEEK ENDED NOVEMBER 21, 1925**

*Summary of information received by telegraph from industrial insurance companies for week ended November 21, 1925, and corresponding week of 1924. (From the Weekly Health Index, November 24, 1925, issued by the Bureau of the Census, Department of Commerce)*

	Week ended Nov. 21, 1925	Corresponding week, 1924
Policies in force.....	61, 867, 464	57, 785, 487
Number of death claims.....	11, 938	10, 605
Death claims per 1,000 policies in force, annual rate..	10. 1	9. 6

Deaths from all causes in certain large cities of the United States during the week ended November 21, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, November 24, 1925, issued by the Bureau of the Census, Department of Commerce)

City	Week ended Nov. 21, 1925		Annual death rate per 1,000 corresponding week, 1924	Deaths under 1 year		Infant mortality rate week ended Nov. 21, 1925 <sup>1</sup>
	Total deaths	Death rate <sup>2</sup>		Week ended Nov. 21, 1925	Corresponding week, 1924	
Total (65 cities).....	6,838	12.4	12.2	740	816	59
Akron.....	33			6	3	67
Albany <sup>3</sup> .....	35	15.2	16.7	5	3	109
Atlanta.....	61			3	5	
White.....	36			1		
Colored.....	25	( <sup>4</sup> )		2		
Baltimore <sup>3</sup> .....	219	14.3	14.3	21	27	63
White.....	156			15		55
Colored.....	63	( <sup>4</sup> )		6		96
Birmingham.....	73	18.5	16.6	10	12	
White.....	30			3		
Colored.....	43	( <sup>4</sup> )		7		
Boston.....	232	15.4	12.2	35	26	92
Bridgeport.....	33			5	7	80
Buffalo.....	148	13.9	12.5	21	23	85
Cambridge.....	33	15.3	11.2	3	2	50
Chicago <sup>5</sup> .....	648	11.3	10.6	63	69	56
Cincinnati.....	128	16.3	17.1	10	19	59
Cleveland.....	195	10.9	10.1	21	18	52
Columbus.....	75	14.0	14.8	6	5	55
Dallas.....	57	15.4	10.5	13	9	
White.....	40			11		
Colored.....	17	( <sup>4</sup> )		2		
Denver.....	74	13.7	15.5	8	13	
Des Moines.....	28	9.8	10.8	2	3	34
Detroit.....	296	12.4	9.1	53	30	91
Duluth.....	27	12.7	6.3	1	3	22
El Paso.....	24	11.9	16.6	4	6	
Erie.....	24			1	1	19
Fall River <sup>4</sup> .....	33	14.2	13.4	8	4	116
Flint.....	13	5.2	7.6	4	3	63
Fort Worth.....	21	7.2	4.2	3	2	
White.....	12			2		
Colored.....	9	( <sup>4</sup> )		1		
Grand Rapids.....	34	11.6	12.3	6	2	94
Houston.....	48	15.2	15.0	4	8	
White.....	32			4		
Colored.....	16	( <sup>4</sup> )		0		
Indianapolis.....	105	15.3	13.7	4	13	28
Jersey City.....	69	11.4	12.0	10	8	71
Kansas City, Kans.....	26	11.0	12.8	2	5	40
White.....	18			2		45
Colored.....	8	( <sup>4</sup> )		0		0
Kansas City, Mo.....	109	15.5	13.0	11	6	
Los Angeles.....	224			19	18	52
Louisville.....	54	10.9	13.1	4	6	34
White.....	43			3		29
Colored.....	11	( <sup>4</sup> )		1		68
Lowell.....	36	17.0	14.4	6	5	104
Lynn.....	20	10.0	10.6	0	3	0
Memphis.....	65	19.4	21.2	6	7	
White.....	31			2		
Colored.....	34	( <sup>4</sup> )		4		
Milwaukee.....	93	9.7	9.8	10	13	46
Minneapolis.....	92	11.3	13.2	13	10	69
Nashville <sup>4</sup> .....	46	17.6	11.4	5	0	
White.....	28			2		
Colored.....	18	( <sup>4</sup> )		3		
New Bedford.....	16	6.2	11.0	5	2	82
New Haven.....	40	11.7	14.2	3	7	39

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1924. Cities left blank are not in the registration area for births.

<sup>3</sup> Data for 65 cities.

<sup>4</sup> Data for 60 cities.

<sup>5</sup> Deaths for week ended Friday, Nov. 20, 1925.

<sup>6</sup> In the cities for which deaths are shown by color, the colored population in 1920 constituted the following per cents of the total population: Atlanta 31, Baltimore 15, Birmingham 39, Dallas 15, Fort Worth 14, Houston 25, Kansas City, Kans., 14, Louisville 17, Memphis 38, Nashville 30, New Orleans 26, Norfolk 38, Richmond 32, and Washington, D. C., 25.

Deaths from all causes in certain large cities of the United States during the week ended November 21, 1925, infant mortality, annual death rate, and comparison with corresponding week of 1924. (From the Weekly Health Index, November 24, 1925, issued by the Bureau of the Census, Department of Commerce)—Con.

City	Week ended Nov. 21, 1925		Annual death rate per 1,000 corresponding week, 1924	Deaths under 1 year		Infant mortality rate week ended Nov. 21, 1925
	Total deaths	Death rate		Week ended Nov. 21, 1925	Corresponding week, 1924	
New Orleans.....	140	17.6	17.1	17	18	
White.....	86			10		
Colored.....	52	( <sup>e</sup> )		7		
New York.....	1,278	10.9	12.0	141	168	57
Bronx Borough.....	143	8.3	9.3	10	5	34
Brooklyn Borough.....	412	9.6	10.9	64	65	66
Manhattan Borough.....	592	13.7	14.1	66	64	58
Queens Borough.....	98	8.9	11.4	7	10	32
Richmond Borough.....	33	12.9	14.4	4	4	71
Newark, N. J.....	95	10.9	11.2	11	18	50
Norfolk.....	39			3	2	55
White.....	22			2		59
Colored.....	17	( <sup>e</sup> )		1		49
Oakland.....	50	10.3	8.7	9	5	103
Oklahoma City.....	22			2	3	
Omaha.....	52	12.8	14.0	2	9	21
Peterson.....	26	9.6	11.5	0	3	0
Philadelphia.....	500	13.2	11.9	48	64	60
Pittsburgh.....	154	12.7	16.2	12	17	40
Portland, Oreg.....	50	9.2	11.6	1	5	10
Providence.....	53	11.3	15.4	8	15	63
Richmond.....	60	16.8	15.6	5	9	60
White.....	34			1		18
Colored.....	26	( <sup>e</sup> )		4		143
Rochester.....	77	12.1	11.1	5	4	40
St. Louis.....	224	14.2	12.4	6	18	
St. Paul.....	47	10.0	15.2	2	7	17
Salt Lake City <sup>s</sup> .....	31	12.3	11.8	2	3	30
San Antonio.....	50	13.2	16.9	12	13	
San Diego.....	30	14.8	16.8	3	2	70
San Francisco.....	124	11.6	13.3	10	15	58
Schenectady.....	20	10.2	11.4	2	3	56
Seattle.....	68			3	3	29
Somerville.....	25	12.8	8.3	5	0	132
Spokane.....	29	13.9	13.0	0	4	0
Springfield, Mass.....	44	15.0	13.0	5	4	74
Syracuse.....	50	13.6	11.9	2	4	25
Tacoma.....	20	10.0	5.6	2	2	47
Toledo.....	66	12.0	9.1	8	6	72
Trenton.....	28	11.1	18.1	4	5	66
Utica.....	30	14.6		6		129
Washington, D. C.....	143	15.0	13.5	10	18	56
White.....	99			8		65
Colored.....	44	( <sup>e</sup> )		2		37
Waterbury.....	30			1	3	
Wilmington, Del.....	22	9.4	10.4	5	4	113
Worcester.....	45	11.8	12.8	9	3	103
Yonkers.....	26	12.1	8.1	1	2	22
Youngstown.....	35	11.4	10.4	7	6	86

# 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 Week Ended November 28, 1925

ALABAMA	Cases	ARKANSAS—continued	Cases
Chicken pox.....	20	Scarlet fever.....	12
Dengue.....	7	Smallpox.....	2
Diphtheria.....	56	Trachoma.....	2
Influenza.....	58	Tuberculosis.....	7
Malaria.....	26	Typhoid fever.....	31
Measles.....	2	Whooping cough.....	12
Mumps.....	31		
Ophthalmia neonatorum.....	1	CALIFORNIA	
Pellagra.....	9	Chicken pox.....	200
Pneumonia.....	63	Diphtheria.....	107
Poliomyelitis.....	1	Influenza.....	16
Scarlet fever.....	35	Lethargic encephalitis:	
Smallpox.....	80	Los Angeles.....	1
Trachoma.....	4	San Fernando.....	1
Tuberculosis.....	45	Tulare County.....	1
Typhoid fever.....	27	Measles.....	9
Whooping cough.....	11	Mumps.....	191
		Poliomyelitis:	
ARIZONA		Alhambra.....	1
Cerebrospinal meningitis.....	1	Fresno County.....	2
Chicken pox.....	1	Marysville.....	1
Diphtheria.....	3	Oakland.....	1
Measles.....	1	San Francisco.....	4
Mumps.....	2	Scarlet fever.....	150
Paratyphoid fever.....	1	Smallpox:	
Poliomyelitis.....	1	Lincoln.....	6
Scarlet fever.....	11	Los Angeles.....	6
Trachoma.....	3	Mendocino County.....	5
Tuberculosis.....	14	Oakland.....	17
Typhoid fever.....	1	Scattering.....	12
		Typhoid fever.....	16
ARKANSAS		Whooping cough.....	40
Cerebrospinal meningitis.....	1		
Chicken pox.....	7	COLORADO	
Diphtheria.....	10	Chicken pox.....	27
Influenza.....	51	Diphtheria.....	33
Malaria.....	27	Measles.....	
Measles.....	2	Mumps.....	
Mumps.....	1	Pneumonia.....	
Pellagra.....	3	Scarlet fever.....	25
		Smallpox.....	1

COLORADO—continued		Cases
Typhoid fever.....	11	
Tuberculosis.....	78	
Whooping cough.....	10	
CONNECTICUT		
Chicken pox.....	67	
Diphtheria.....	54	
Dysentery (amebic).....	1	
Dysentery (bacillary).....	1	
Influenza.....	9	
Measles.....	55	
Mumps.....	10	
Pneumonia (broncho).....	28	
Pneumonia (lobar).....	43	
Scarlet fever.....	50	
Septic sore throat.....	1	
Tuberculosis (all forms).....	44	
Typhoid fever.....	5	
Whooping cough.....	32	
DELAWARE		
Chicken pox.....	5	
Diphtheria.....	8	
Pneumonia.....	3	
Scarlet fever.....	2	
Tuberculosis.....	2	
Typhoid fever.....	4	
Whooping cough.....	2	
FLORIDA		
Chicken pox.....	5	
Dengue.....	1	
Diphtheria.....	35	
German measles.....	1	
Influenza.....	4	
Malaria.....	4	
Mumps.....	4	
Pneumonia.....	7	
Scarlet fever.....	12	
Smallpox.....	6	
Tetanus.....	2	
Tuberculosis.....	2	
Typhoid fever.....	16	
Whooping cough.....	4	
GEORGIA		
Chicken pox.....	20	
Conjunctivitis (acute).....	1	
Diphtheria.....	50	
Hook worm disease.....	3	
Influenza.....	111	
Malaria.....	30	
Mumps.....	23	
Paratyphoid fever.....	2	
Pellagra.....	3	
Pneumonia.....	67	
Scarlet fever.....	9	
Septic sore throat.....	9	
Smallpox.....	1	
Tetanus.....	1	
Tuberculosis.....	3	
Typhoid fever.....	17	
Whooping cough.....	3	
ILLINOIS		
Cerebrospinal meningitis—Cook County.....	1	
Diphtheria:		
Cook County.....	78	
Madison County.....	5	

ILLINOIS—continued		Cases
Diphtheria—Continued.....		
McLean County.....	5	
Rock Island County.....	6	
Scattering.....	34	
Influenza.....	7	
Lethargic encephalitis:		
Cook County.....	3	
Rock Island County.....	2	
Measles.....	160	
Pneumonia.....	200	
Polioomyelitis—Cook County.....	1	
Scarlet fever.....	357	
Smallpox:		
Champaign County.....	5	
Cook County.....	1	
McLean County.....	6	
Scattering.....	1	
Tuberculosis.....	491	
Typhoid fever:		
Cook County.....	2	
Franklin County.....	19	
Perry County.....	5	
Saline County.....	7	
White County.....	7	
Scattering.....	26	
Whooping cough.....	114	
INDIANA		
Cerebrospinal meningitis.....	2	
Chicken pox.....	102	
Diphtheria.....	81	
Influenza.....	21	
Measles.....	42	
Pneumonia.....	3	
Scarlet fever.....	220	
Smallpox.....	94	
Tuberculosis.....	54	
Typhoid fever.....	9	
Whooping cough.....	55	
IOWA		
Chicken pox.....	55	
Diphtheria.....	48	
German measles.....	1	
Measles.....	2	
Mumps.....	14	
Pneumonia.....	5	
Polioomyelitis.....	2	
Rabies.....	1	
Scarlet fever.....	42	
Smallpox.....	29	
Tuberculosis.....	19	
Typhoid fever.....	2	
Whooping cough.....	8	
KANSAS		
Chicken pox.....	100	
Diphtheria.....	23	
German measles.....	2	
Influenza.....	2	
Measles.....	6	
Mumps.....	3	
Pneumonia.....	23	
Rabies.....	1	
Scarlet fever.....	68	
Smallpox (scattering).....	6	
Tuberculosis.....	25	
Typhoid fever (scattering).....	9	
Whooping cough.....	59	

LOUISIANA		Cases	MICHIGAN—continued		Cases
Diphtheria	.....	33	Scarlet fever	.....	193
Malaria	.....	14	Smallpox	.....	5
Paratyphoid fever	.....	6	Tuberculosis	.....	257
Pneumonia	.....	44	Typhoid fever	.....	17
Poliomyelitis	.....	1	Whooping cough	.....	128
Scarlet fever	.....	14			
Smallpox	.....	23	MINNESOTA		
Tuberculosis	.....	66	Chicken pox	.....	134
Typhoid fever	.....	43	Diphtheria	.....	72
Whooping cough	.....	6	Lethargic encephalitis	.....	1
			Measles	.....	11
MAINE			Pneumonia	.....	3
Cerebrospinal meningitis	.....	1	Poliomyelitis	.....	1
Chicken pox	.....	19	Scarlet fever	.....	216
Diphtheria	.....	2	Smallpox	.....	1
German measles	.....	2	Tuberculosis	.....	47
Measles	.....	3	Typhoid fever	.....	2
Mumps	.....	34	Whooping cough	.....	11
Pneumonia	.....	6			
Scarlet fever	.....	25	MISSISSIPPI		
Tuberculosis	.....	18	Diphtheria	.....	39
Vincent's angina	.....	1	Poliomyelitis	.....	1
Whooping cough	.....	9	Scarlet fever	.....	24
			Smallpox	.....	1
MARYLAND <sup>1</sup>			Typhoid fever	.....	14
Chicken pox	.....	131			
Diphtheria	.....	38	MISSOURI		
Dysentery	.....	1	Chicken pox	.....	80
Influenza	.....	16	Diphtheria	.....	82
Measles	.....	173	Influenza	.....	15
Mumps	.....	58	Measles	.....	4
Ophthalmia neonatorum	.....	1	Mumps	.....	34
Pneumonia (broncho)	.....	22	Pneumonia	.....	5
Pneumonia (lobar)	.....	38	Scarlet fever	.....	146
Rabies	.....	1	Septic sore throat	.....	4
Scarlet fever	.....	46	Smallpox	.....	3
Septic sore throat	.....	1	Trachoma	.....	3
Tetanus	.....	1	Tuberculosis	.....	51
Tuberculosis	.....	34	Typhoid fever	.....	19
Typhoid fever	.....	23	Typhus fever—St. Louis	.....	1
Whooping cough	.....	34	Whooping cough	.....	14
MASSACHUSETTS			MONTANA		
Cerebrospinal meningitis	.....	1	Cerebrospinal meningitis	.....	1
Chicken pox	.....	172	Chicken pox	.....	18
Conjunctivitis (suppurative)	.....	8	Diphtheria	.....	3
Diphtheria	.....	69	Mumps	.....	94
Dysentery	.....	2	Scarlet fever	.....	39
German measles	.....	25	Smallpox	.....	2
Influenza	.....	6	Trachoma	.....	15
Lethargic encephalitis	.....	3	Tuberculosis	.....	6
Measles	.....	825	Typhoid fever	.....	3
Mumps	.....	30			
Ophthalmia neonatorum	.....	22	NEBRASKA		
Pneumonia (lobar)	.....	118	Chicken pox	.....	8
Poliomyelitis	.....	1	Diphtheria	.....	5
Scarlet fever	.....	175	Measles	.....	1
Tuberculosis (pulmonary)	.....	80	Mumps	.....	2
Tuberculosis (other forms)	.....	23	Scarlet fever	.....	31
Typhoid fever	.....	7	Smallpox	.....	21
Whooping cough	.....	158	Whooping cough	.....	12
MICHIGAN			NEW JERSEY		
Diphtheria	.....	75	Cerebrospinal meningitis	.....	1
Measles	.....	93	Chicken pox	.....	234
Pneumonia	.....	84	Diphtheria	.....	61
			Influenza	.....	7
			Measles	.....	160
			Pneumonia	.....	95

<sup>1</sup> Week ended Friday.

NEW JERSEY—continued		Cases
Poliomyelitis.....	2	
Scarlet fever.....	139	
Trachoma.....	1	
Trichinosis.....	1	
Typhoid fever.....	8	
Whooping cough.....	30	
NEW MEXICO		
Chicken pox.....	30	
Diphtheria.....	8	
Influenza.....	2	
Mumps.....	2	
Pellagra.....	1	
Pneumonia.....	3	
Scarlet fever.....	17	
Tuberculosis.....	31	
Typhoid fever.....	9	
Whooping cough.....	12	
NEW YORK		
(Exclusive of New York City)		
Cerebrospinal meningitis.....	1	
Diphtheria.....	90	
Influenza.....	19	
Lethargic encephalitis.....	3	
Measles.....	479	
Pneumonia.....	218	
Poliomyelitis.....	4	
Scarlet fever.....	151	
Smallpox.....	1	
Typhoid fever.....	17	
Whooping cough.....	152	
NORTH CAROLINA		
Cerebrospinal meningitis.....	1	
Chicken pox.....	90	
Diphtheria.....	82	
German measles.....	1	
Measles.....	33	
Poliomyelitis.....	1	
Scarlet fever.....	62	
Smallpox.....	9	
Typhoid fever.....	3	
Whooping cough.....	18	
OKLAHOMA		
(Exclusive of Tulsa and Oklahoma City)		
Cerebrospinal meningitis.....	1	
Chicken pox.....	20	
Diphtheria.....	34	
Influenza.....	106	
Malaria.....	27	
Measles.....	4	
Mumps.....	3	
Pellagra.....	6	
Pneumonia.....	46	
Poliomyelitis—Choctaw County.....	1	
Scarlet fever.....	36	
Smallpox.....	6	
Typhoid fever.....	72	
Whooping cough.....	28	
OREGON		
Cerebrospinal meningitis.....	1	
Chicken pox.....	17	
Diphtheria:		
Portland.....	8	
Salem.....	15	

OREGON—continued		Cases
Diphtheria—Continued.		
Scattering.....		
Influenza.....	4	
Measles.....	6	
Mumps.....	3	
Pneumonia.....	16	
Scarlet fever.....	16	
Smallpox:		
Salem.....	31	
Scattering.....	12	
Tuberculosis.....	8	
Typhoid fever.....	5	
Whooping cough.....	2	
PENNSYLVANIA		
Cerebrospinal meningitis:		
Pittsburgh.....	26	
Lewisburg.....	1	
Chicken pox.....	1	
Diphtheria:		
Pittsburgh.....	674	
Scattering.....	20	
German measles.....	123	
Impetigo contagiosa.....	11	
Lethargic encephalitis—Allentown.....	2	
Lethargic encephalitis—Allentown.....	1	
Measles.....	506	
Mumps.....	76	
Pellagra—Allentown.....	1	
Pneumonia.....	1	
Scabies.....	83	
Scabies.....	2	
Scarlet fever.....	286	
Smallpox—Franklin.....	1	
Tetanus.....	1	
Tuberculosis.....	112	
Typhoid fever (scattering).....	34	
Whooping cough.....	178	
RHODE ISLAND		
Chicken pox.....	14	
Diphtheria.....	8	
German measles.....	4	
Influenza.....	3	
Measles.....	124	
Ophthalmia neonatorum.....	1	
Pneumonia.....	3	
Scarlet fever.....	10	
Tuberculosis.....	5	
Typhoid fever—Providence.....	1	
Whooping cough.....	9	
SOUTH DAKOTA		
Pneumonia.....	5	
Scarlet fever.....	15	
Typhoid fever.....	1	
Whooping cough.....	7	
TEXAS		
Chicken pox.....	10	
Diphtheria.....	43	
Influenza.....	12	
Measles.....	1	
Mumps.....	2	
Paratyphoid fever.....	3	
Pneumonia.....	3	
Scarlet fever.....	5	
Scarlet fever.....	16	
Smallpox.....	1	
Tuberculosis.....	14	
Typhoid fever.....	4	
Whooping cough.....	14	

<sup>1</sup> Deaths.



UTAH		Cases	WASHINGTON—continued		Cases
Chicken pox	.....	82	Tuberculosis	.....	10
Diphtheria:			Typhoid fever	.....	1
Murray	.....	11	Whooping cough	.....	16
Ogden	.....	9			
Scattering	.....	17	WEST VIRGINIA		
Measles	.....	1	Diphtheria	.....	15
Mumps	.....	13	Scarlet fever	.....	23
Pneumonia	.....	7	Typhoid fever:		
Poliomyelitis—Salt Lake City	.....	1	Buckhannon	.....	1
Scarlet fever	.....	14	Wheeling	.....	1
Smallpox:					
Enoch	.....	1	WISCONSIN		
Ogden	.....	1	Milwaukee:		
Tuberculosis	.....	1	Chicken pox	.....	129
Typhoid fever	.....	3	Diphtheria	.....	15
Whooping cough	.....	12	Measles	.....	3
			Mumps	.....	14
VERMONT			Pneumonia	.....	4
Chicken pox	.....	59	Scarlet fever	.....	9
Diphtheria	.....	6	Tuberculosis	.....	12
Measles	.....	1	Typhoid fever	.....	1
Mumps	.....	62	Whooping cough	.....	20
Poliomyelitis	.....	2	Scattering:		
Scarlet fever	.....	15	Chicken pox	.....	190
Typhoid fever	.....	1	Diphtheria	.....	16
Whooping cough	.....	39	German measles	.....	4
			Influenza	.....	19
VIRGINIA			Measles	.....	112
Smallpox—Nansemond County	.....	1	Mumps	.....	66
			Ophthalmia neonatorum	.....	1
WASHINGTON			Pneumonia	.....	11
Cerebrospinal meningitis—Tacoma	.....	1	Poliomyelitis	.....	2
Chicken pox	.....	104	Scarlet fever	.....	148
Diphtheria:			Smallpox	.....	14
Tacoma	.....	7	Tuberculosis	.....	18
Scattering	.....	23	Typhoid fever	.....	8
German measles	.....	9	Whooping cough	.....	95
Measles	.....	9			
Mumps	.....	32	WYOMING		
Pneumonia	.....	1	Chicken pox	.....	8
Poliomyelitis:			Measles	.....	1
Tacoma	.....	2	Mumps	.....	2
Thurston County	.....	1	Pneumonia	.....	2
Scarlet fever	.....	86	Scarlet fever	.....	13
Smallpox:			Smallpox:		
Lewis County	.....	18	Niobrara County	.....	1
Tacoma	.....	27	Uinta County	.....	13
Scattering	.....	20			

### Reports for Week Ended November 21, 1925

DISTRICT OF COLUMBIA		Cases	NORTH DAKOTA—continued		Cases
Chicken pox	.....	21	Scarlet fever	.....	69
Diphtheria	.....	61	Smallpox	.....	1
Influenza	.....	3	Trachoma	.....	5
Measles	.....	3	Typhoid fever	.....	2
Pneumonia	.....	29	Whooping cough	.....	23
Scarlet fever	.....	17			
Tuberculosis	.....	21	SOUTH CAROLINA		
Whooping cough	.....	17	Dengue	.....	2
			Diphtheria	.....	44
NORTH DAKOTA			Influenza	.....	386
Chicken pox	.....	11	Malaria	.....	141
Diphtheria	.....	7	Measles	.....	8
German measles	.....	17	Poliomyelitis	.....	2
Measles	.....	3	Scarlet fever	.....	16
Mumps	.....	69	Smallpox	.....	13
Pneumonia	.....	10	Tuberculosis	.....	32
Poliomyelitis	.....	1	Typhoid fever	.....	35
			Whooping cough	.....	32

**SUMMARY OF MONTHLY REPORTS FROM STATES**

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

State	Cerebro-spinal meningitis	Diphtheria	Influenza	Malaria	Measles	Pellagra	Polio-myelitis	Scarlet fever	Small-pox	Typhoid fever
<i>October, 1925</i>										
California.....	5	431	56	8	58	8	49	349	113	53
Illinois.....	8	489	127	2	273	1	61	755	30	310
Kansas.....	4	121	8	0	18	1	21	194	19	117
Maine.....	2	19	3	0	3	0	1	114	0	49
Mississippi.....	2	238	1,295	7,473	105	391	6	38	15	391
Oklahoma <sup>1</sup> .....	3	187	251	236	8	16	9	78	7	415
Rhode Island.....	1	27	18	0	75	0	3	33	18	2
South Dakota.....	1	32			1		19	150	13	30

<sup>1</sup> Exclusive of Tulsa and Oklahoma City.

**PLAGUE-ERADICATIVE MEASURES IN THE UNITED STATES**

The following items were taken from the reports of plague-eradivative measures from the cities named:

*Los Angeles, Calif.*

Week ended Nov. 14, 1925:

Number of rats trapped.....	1,960
Number of rats found to be plague infected.....	0
Number of squirrels examined.....	443
Number of squirrels found to be plague infected.....	0
Number of mice trapped.....	3,434
Number of mice found to be plague infected.....	0

Date of discovery of last plague-infected rodent, Nov. 6, 1925.

Date of last human case, Jan. 15, 1925.

*Oakland, Calif.*

(Including other East Bay communities)

Week ended Nov. 14, 1925:

Number of rats trapped.....	1,006
Number of rats found to be plague infected.....	0

Totals:

Number of rats trapped Jan. 1 to Nov. 14, 1925.....	75,284
Number of rats found to be plague infected.....	21
Number of squirrels examined May 1 to Aug. 1, 1925.....	7,277
Number of squirrels found to be plague infected.....	0
Number of mice trapped Jan. 1 to Nov. 14, 1925.....	26,778

Date of discovery of last plague-infected rat, Mar. 4, 1925.

Date of last human case, Sept. 10, 1919.

**GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES**

*Diphtheria.*—For the week ended November 14, 1925, 35 States reported 1,848 cases of diphtheria. For the week ended November 15, 1924, the same States reported 2,172 cases of this disease. One hundred and one cities, situated in all parts of the country and having an aggregate population of about 29,000,000 reported 959 cases of diphtheria for the week ended November 14, 1925. Last year for the corresponding week they reported 1,096 cases. The estimated expectancy for these cities was 1,411 cases. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

*Measles.*—Thirty-three States reported 2,022 cases of measles for the week ended November 14, 1925, and 828 cases of this disease for the week ended November 15, 1924. One hundred and one cities reported 968 cases of measles for the week this year, and 321 cases last year.

*Poliomyelitis.*—The health officers of 36 States reported 78 cases of poliomyelitis for the week ended November 14, 1925. The same States reported 98 cases for the week ended November 15, 1924.

*Scarlet fever.*—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 2,626 cases; last year, 2,628 cases. One hundred and one cities—this year, 1,054 cases; last year, 1,139 cases; estimated expectancy, 821 cases.

*Smallpox.*—For the week ended November 14, 1925, 35 States reported 275 cases of smallpox. Last year for the corresponding week they reported 584 cases. One hundred and one cities reported smallpox for the week as follows: 1925, 46 cases; 1924, 190 cases; estimated expectancy 29 cases. One death from smallpox was reported by these cities for the week this year—at Los Angeles, Calif.

*Typhoid fever.*—Five hundred and eighty cases of typhoid fever were reported for the week ended November 14, 1925, by 34 States. For the corresponding week of 1924, the same States reported 420 cases of this disease. One hundred and one cities reported 64 cases of typhoid fever for the week this year and 104 cases for the corresponding week last year. The estimated expectancy for these cities was 109 cases.

*Influenza and pneumonia.*—Deaths from influenza and pneumonia were reported for the week by 95 cities, with a population of more than 28,000,000, as follows: 1925, 811 deaths; 1924, 717.

## City reports for week ended November 14, 1925

The "estimated expectancy" given for diphtheria, poliomyelitis, scarlet fever, smallpox, and typhoid fever is the result of an attempt to ascertain from previous occurrence how many cases of the disease under consideration may be expected to occur during a certain week in the absence 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 week 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 reports have not been received for the full nine years, data are used for as many years as possible, but no year earlier than 1915 is included. In obtaining the estimated expectancy, the figures are smoothed when necessary to avoid abrupt deviations 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.

Division, State, and city	Population July 1, 1923, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>NEW ENGLAND</b>									
<b>Maine:</b>									
Portland	73, 129	4	2	0	0	0	2	1	1
<b>New Hampshire:</b>									
Concord	22, 408	0	0	0	0	1	0	1	1
Manchester	81, 383	0	4	0	0	0	0	0	1
<b>Vermont:</b>									
Barre	1 10, 008	0	0	1	0	0	0	0	1
Burlington	23, 613	0	0	0	0	0	0	0	0
<b>Massachusetts:</b>									
Boston	770, 400	38	59	25	3	2	57	10	27
Fall River	120, 912	1	4	3	0	0	80	0	0
Springfield	144, 227	4	5	0	0	0	0	0	2
Worcester	191, 927	10	7	3	0	0	183	1	12
<b>Rhode Island:</b>									
Pawtucket	68, 799	7	2	0	0	0	1	1	1
Providence	242, 378	0	12	5	1	0	37	0	0
<b>Connecticut:</b>									
Bridgeport	1 143, 555	3	11	5	0	0	10	0	1
Hartford	1 138, 036	1	10	7	0	0	7	0	2
New Haven	172, 967	29	3	2	0	0	0	0	2
<b>MIDDLE ATLANTIC</b>									
<b>New York:</b>									
Buffalo	536, 718	26	29	8	0	0	1	1	16
New York	5, 927, 625	112	169	133	16	15	253	15	159
Rochester	317, 867	15	6	7	0	1	25	1	2
Syracuse	184, 511	4	12	4	0	0	1	3	6
<b>New Jersey:</b>									
Camden	124, 157	0	7	11	0	0	0	0	6
Newark	438, 699	26	17	11	3	0	15	0	8
Trenton	127, 390	11	5	1	4	0	0	0	4
<b>Pennsylvania:</b>									
Philadelphia	1, 922, 788	148	70	76	0	4	30	4	49
Pittsburgh	613, 442	26	36	24	1	7	10	3	31
Reading	110, 917	12	6	3	0	0	2	0	0
<b>EAST NORTH CENTRAL</b>									
<b>Ohio:</b>									
Cincinnati	406, 312	10	19	8	0	2	1	0	14
Cleveland	888, 510	54	50	71	5	3	30	4	27
Columbus	261, 082	10	13	1	0	0	1	1	3
Toledo	268, 338	18	16	16	0	0	7	0	2
<b>Indiana:</b>									
Fort Wayne	93, 573	2	4	0	0	0	0	0	3
Indianapolis	342, 718	28	23	6	0	2	16	1	14
South Bend	76, 709	14	3	1	0	0	0	0	1
Terre Haute	68, 939	5	4	3	0	0	1	0	3
<b>Illinois:</b>									
Chicago	2, 886, 121	97	208	72	8	4	20	8	75
Springfield	61, 833	7	3	0	2	1	0	7	2
<b>Michigan:</b>									
Detroit	1, 155, 000	66	78	58	2	2	48	3	31
Flint	117, 963	6	15	6	0	0	1	0	4
Grand Rapids	145, 947	6	8	0	0	0	1	0	4

<sup>1</sup> Population Jan. 1, 1920.

## City reports for week ended November 14, 1925—Continued

Division, State, and city	Population July 1, 1923, estimated	Chicken pox, cases reported	Diphtheria		Influenza		Measles, cases reported	Mumps, cases reported	Pneumonia, deaths reported
			Cases, estimated expectancy	Cases reported	Cases reported	Deaths reported			
<b>EAST NORTH CENTRAL—continued</b>									
<b>Wisconsin:</b>									
Madison.....	42,519	40	1	0	0	0	0	0	0
Milwaukee.....	484,695	111	30	37	0	0	1	3	6
Racine.....	61,393	5	2	3	0	0	0	0	1
Superior.....	139,671	0	1	0	0	0	0	0	0
<b>WEST NORTH CENTRAL</b>									
<b>Minnesota:</b>									
Duluth.....	106,289	35	5	0	0	0	0	0	1
Minneapolis.....	409,125	59	30	20	0	0	0	0	10
St. Paul.....	241,891	15	21	14	0	0	1	2	5
<b>Iowa:</b>									
Davenport.....	61,262	3	2	0	0	0	0	0	-----
Des Moines.....	140,923	4	7	3	0	0	1	0	-----
Sioux City.....	79,662	7	3	2	0	0	0	0	-----
Waterloo.....	39,667	2	1	0	0	0	0	-----	-----
<b>Missouri:</b>									
Kansas City.....	351,819	18	17	8	5	5	0	1	10
St. Joseph.....	78,232	8	5	0	0	0	0	0	4
St. Louis.....	803,853	16	63	66	1	0	3	0	-----
<b>North Dakota:</b>									
Fargo.....	24,841	0	1	0	0	0	1	13	1
Grand Forks.....	14,547	0	0	0	0	0	0	0	-----
<b>South Dakota:</b>									
Aberdeen.....	15,829	2	0	0	0	0	0	15	-----
Sioux Falls.....	29,206	6	1	1	0	0	0	0	0
<b>Nebraska:</b>									
Lincoln.....	58,761	0	4	1	0	0	1	1	1
Omaha.....	204,382	11	10	2	0	0	0	0	4
<b>Kansas:</b>									
Topeka.....	52,555	5	3	2	0	1	0	0	0
Wichita.....	79,261	18	8	1	0	0	0	0	3
<b>SOUTH ATLANTIC</b>									
<b>Delaware:</b>									
Wilmington.....	117,728	3	3	8	0	0	0	0	0
<b>Maryland:</b>									
Baltimore.....	773,580	115	32	19	14	1	74	63	30
Cumberland.....	32,361	0	1	1	0	0	0	0	0
Frederick.....	11,301	2	1	1	0	0	0	0	0
<b>District of Columbia:</b>									
Washington.....	437,571	21	25	21	1	0	3	0	16
<b>Virginia:</b>									
Lynchburg.....	30,277	0	2	2	0	0	0	0	0
Norfolk.....	159,089	15	5	5	0	0	0	0	1
Richmond.....	181,044	6	16	25	0	0	1	1	6
Roanoke.....	55,502	6	4	19	0	0	1	0	0
<b>West Virginia:</b>									
Charleston.....	45,597	4	5	0	0	0	0	0	1
Huntington.....	57,918	0	4	2	0	0	1	0	2
Wheeling.....	156,208	2	4	7	0	0	2	12	0
<b>North Carolina:</b>									
Raleigh.....	29,171	0	3	0	0	0	0	0	0
Wilmington.....	35,719	0	1	0	0	0	0	1	1
Winston-Salem.....	56,230	2	3	0	0	0	32	0	6
<b>South Carolina:</b>									
Charleston.....	71,245	1	3	7	0	0	0	0	0
Columbia.....	39,688	0	2	0	0	0	0	0	-----
Greenville.....	25,789	-----	-----	-----	-----	-----	-----	-----	-----
<b>Georgia:</b>									
Atlanta.....	222,963	0	11	3	21	0	0	1	16
Brunswick.....	15,937	0	0	0	0	0	0	0	0
Savannah.....	69,448	4	5	2	20	0	0	1	2
<b>Florida:</b>									
St. Petersburg.....	24,403	0	1	0	0	0	0	0	1
Tampa.....	56,050	0	2	2	0	0	0	0	0

<sup>1</sup> Population Jan. 1, 1920.

## City reports for week ended November 14, 1925—Continued

Division, State, and city	Population July 1, 1923, estimated	Chick- en pox, cases re- ported	Diphtheria		Influenza		Meas- les, cases re- ported	Mumps, cases re- ported	Pneu- monia, deaths re- ported
			Cases, es- timated ex- pectancy	Cases re- ported	Cases re- ported	Deaths re- ported			
<b>EAST SOUTH CENTRAL</b>									
<b>Kentucky:</b>									
Covington.....	57,877	1	4	0	1	0	1	0	1
Lexington.....	43,673	0	4	2	0	1	0	0	3
Louisville.....	257,671	3	13	0	1	0	0	1	12
<b>Tennessee:</b>									
Memphis.....	170,067	2	16	0	0	2	0	0	6
Nashville.....	121,128	1	7	3	0	1	0	0	3
<b>Alabama:</b>									
Birmingham.....	195,901	3	7	4	22	2	2	1	7
Mobile.....	63,858	0	2	2	0	0	0	0	2
Montgomery.....	45,383	0	2	3	4	0	0	11	0
<b>WEST SOUTH CENTRAL</b>									
<b>Arkansas:</b>									
Fort Smith.....	30,035	2	2	1	0	0	0	0	0
Little Rock.....	70,916	6	3	4	0	0	1	0	3
<b>Louisiana:</b>									
New Orleans.....	404,575	1	13	14	16	4	1	0	9
Shreveport.....	54,590	1	1	1	0	0	0	0	0
<b>Oklahoma:</b>									
Oklahoma City.....	101,150	1	5	2	5	0	0	0	3
Tulsa.....	102,018	6	7	13	0	0	0	0	0
<b>Texas:</b>									
Dallas.....	177,274	4	15	10	3	2	0	0	6
Galveston.....	46,877	0	1	4	0	0	0	0	0
Houston.....	154,970	0	5	8	0	0	0	0	1
San Antonio.....	184,727	0	3	4	0	0	0	0	5
<b>MOUNTAIN</b>									
<b>Montana:</b>									
Billings.....	16,927	15	0	0	0	0	0	19	0
Great Falls.....	27,787	3	1	0	0	0	0	93	0
Helena.....	112,037	0	0	0	0	0	0	0	1
Missoula.....	112,668	0	0	1	0	0	0	0	1
<b>Idaho:</b>									
Boise.....	22,806	1	0	2	0	0	0	0	0
<b>Colorado:</b>									
Denver.....	272,031	3	15	10	0	0	0	0	10
Pueblo.....	43,519	3	4	10	0	0	0	0	2
<b>New Mexico:</b>									
Albuquerque.....	16,648	3	1	0	0	0	0	0	0
<b>Arizona:</b>									
Phoenix.....	33,899	0	0	0	0	1	0	0	0
<b>Utah:</b>									
Salt Lake City.....	126,241	33	3	5	0	0	4	4	5
<b>Nevada:</b>									
Reno.....	12,429	0	0	0	0	0	0	0	0
<b>PACIFIC</b>									
<b>Washington:</b>									
Seattle.....	1,315,685	30	6	6	0	0	1	18	0
Spokane.....	104,573	31	6	2	0	0	0	0	0
Tacoma.....	101,731	3	3	7	0	0	0	0	4
<b>Oregon:</b>									
Portland.....	273,621	6	7	12	0	0	4	8	12
<b>California:</b>									
Los Angeles.....	666,853	10	42	23	3	0	3	3	16
Sacramento.....	69,950	4	3	2	0	0	0	0	7
San Francisco.....	539,038	33	21	10	4	1	3	5	3

1 Population Jan. 1, 1920.

## City reports for week ended November 14, 1925—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuber- culosis, deaths re- ported	Typhoid fever			Whoop- ing cough, cases re- ported	Deaths, all causes
	Cases, esti- mated expect- ancy	Cases re- ported	Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		Cases, esti- mated expect- ancy	Cases re- ported	Deaths re- ported		
<b>NEW ENGLAND</b>											
Maine:											
Portland.....	1	6	0	0	0	0	1	1	0	0	15
New Hampshire:											
Concord.....	1	2	0	0	0	0	0	0	0	3	11
Manchester.....	2	12	0	0	0	0	0	0	0	0	9
Vermont:											
Barre.....	1	0	0	0	0	1	0	0	0	1	3
Burlington.....	1	0	0	0	0	1	0	0	0	0	4
Massachusetts:											
Boston.....	32	45	0	0	0	12	2	0	0	39	233
Fall River.....	1	2	0	0	0	1	1	0	0	6	32
Springfield.....	6	3	0	0	0	1	0	0	0	0	29
Worcester.....	7	23	0	0	0	1	0	0	0	13	-----
Rhode Island:											
Pawtucket.....	1	0	0	0	0	0	0	0	0	2	22
Providence.....	6	2	0	0	0	4	1	0	0	5	64
Connecticut:											
Bridgeport.....	5	7	0	0	0	0	0	0	0	4	34
Hartford.....	5	6	0	0	0	2	0	0	0	1	25
New Haven.....	5	3	0	0	0	0	1	0	0	0	28
<b>MIDDLE ATLANTIC</b>											
New York:											
Buffalo.....	15	19	0	0	0	6	2	0	0	1	164
New York.....	94	82	0	0	0	102	20	13	4	81	1,367
Rochester.....	8	4	0	0	0	7	1	0	0	6	65
Syracuse.....	11	1	0	0	0	2	1	0	0	28	44
New Jersey:											
Camden.....	1	13	0	0	0	3	1	0	0	0	41
Newark.....	14	15	0	0	0	6	2	0	0	6	77
Trenton.....	1	2	0	0	0	2	1	0	0	1	26
Pennsylvania:											
Philadelphia.....	45	101	0	0	0	31	7	1	0	23	463
Pittsburgh.....	27	40	1	0	0	8	1	1	2	10	197
Reading.....	2	4	0	0	0	2	0	0	0	7	31
<b>EAST NORTH CENTRAL</b>											
Ohio:											
Cincinnati.....	13	9	1	0	0	11	1	3	3	5	146
Cleveland.....	25	16	1	0	0	14	3	0	0	41	192
Columbus.....	8	8	0	2	0	2	1	0	0	0	55
Toledo.....	13	5	0	0	0	6	3	3	1	13	64
Indiana:											
Fort Wayne.....	1	2	0	0	0	1	1	1	1	1	27
Indianapolis.....	10	11	1	11	9	5	1	0	0	6	98
South Bend.....	2	6	0	2	0	1	0	1	0	0	14
Terre Haute.....	3	8	0	1	0	0	0	1	2	0	19
Illinois:											
Chicago.....	110	72	0	1	0	38	7	2	0	35	640
Springfield.....	2	2	0	0	0	1	0	0	0	1	34
Michigan:											
Detroit.....	61	80	2	0	0	17	3	2	0	26	265
Flint.....	8	5	1	0	0	1	0	2	1	7	21
Grand Rapids.....	8	13	1	0	0	2	1	0	0	23	33
Wisconsin:											
Madison.....	1	5	0	0	0	0	0	0	0	4	4
Milwaukee.....	26	14	1	0	0	10	0	0	0	38	107
Racine.....	5	2	0	0	0	1	0	1	0	6	11
Superior.....	1	6	0	0	0	0	0	0	0	0	4
<b>WEST NORTH CENTRAL</b>											
Minnesota:											
Duluth.....	3	27	0	0	0	0	0	0	0	6	14
Minneapolis.....	28	47	2	0	0	7	0	2	0	2	105
St. Paul.....	9	25	3	0	0	6	1	0	0	8	55

1 Pulmonary tuberculosis only.

City reports for week ended November 14, 1925—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuberculosis, deaths reported	Typhoid fever			Whooping cough, cases reported	Deaths, all causes
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported		Cases estimated expectancy	Cases reported	Deaths reported		
<b>WEST NORTH CENTRAL—contd.</b>											
<b>Iowa:</b>											
Davenport.....	0	0	1	0			0	0		0	
Des Moines.....	12	4	1	0			0	0		1	
Sioux City.....	3	0	0	0			0	0		0	
Waterloo.....	2	2	0	0			0	1		3	
<b>Missouri:</b>											
Kansas City.....	10	12	0	0	0	4	1	0	0	12	110
St. Joseph.....	4	2	0	0	0	0	0	1	0	0	30
St. Louis.....	30	50	0	0	0	8	3	3	1	2	216
<b>North Dakota:</b>											
Fargo.....	2	4	0	0	0	0	0	0	0	2	3
Grand Forks.....	1	0	0	0			0	0		0	
<b>South Dakota:</b>											
Aberdeen.....	0	0	0	0			0	0		0	
Sioux Falls.....	1	20	0	0	0	0	0	0	0	0	3
<b>Nebraska:</b>											
Lincoln.....	2	3	0	0	0	1	0	0	0	9	10
Omaha.....	3	4	1	2	0	3	1	0	0	0	41
<b>Kansas:</b>											
Topeka.....	3	0	1	0	0	0	0	1	0	7	14
Wichita.....	3	0	0	0	0	0	1	0	0	0	30
<b>SOUTH ATLANTIC</b>											
<b>Delaware:</b>											
Wilmington.....	3	3	0	0	0	2	1	1	0	4	14
<b>Maryland:</b>											
Baltimore.....	15	14	0	0	0	16	4	3	1	24	201
Cumberland.....	1	0	0	0	0	1	1	0	0	0	8
Frederick.....	0	0	0	0	0	0	0	0	0	0	2
<b>District of Col.:</b>											
Washington.....	15	24	0	0	0	11	3	0	0	8	129
<b>Virginia:</b>											
Lynchburg.....	0	1	0	0	0	0	0	0	0	0	4
Norfolk.....	1	4	0	0	0	2	0	0	0	3	
Richmond.....	8	12	0	0	0	5	1	0	0	0	57
Roanoke.....	2	2	0	0	0	0	0	0	1	0	23
<b>West Virginia:</b>											
Charleston.....	1	0	0	0	0	1	0	0	0	0	14
Huntington.....	2	3	0	0	0	2	0	0	0	0	17
Wheeling.....	2	7	0	0	0	4	2	0	1	0	20
<b>North Carolina:</b>											
Raleigh.....	1	3	0	0	0	0	0	0	0	0	10
Wilmington.....	0	3	0	0	0	0	0	0	0	0	7
Winston-Salem.....	2	5	0	3	0	2	0	0	0	4	17
<b>South Carolina:</b>											
Charleston.....	1	1	0	0	0	2	1	1	0	0	30
Columbia.....	1	2	0	0	0	0	0	0	0	0	
Greenville.....	1		0			0					
<b>Georgia:</b>											
Atlanta.....	6	2	1	0	0	4	1	0	0	0	77
Brunswick.....	0	0	0	0	0	0	0	0	0	0	3
Savannah.....	1	1	0	0	0	1	1	0	0	0	34
<b>Florida:</b>											
St. Petersburg.....	0	0	0	0	0	3	0	0	0	0	22
Tampa.....	1	0	0	0	0	2	0	0	0	1	19
<b>EAST SOUTH CENTRAL</b>											
<b>Kentucky:</b>											
Covington.....	2	1	0	0	0	2	0	0	0	6	17
Lexington.....	1	0	0	0	0	1	1	0	0	2	15
Louisville.....	4	2	0	0	0	9	1	2	0	1	85
<b>Tennessee:</b>											
Memphis.....	4	5	0	1	0	1	2	3	3	0	56
Nashville.....	4	14	0	0	0	8	2	3	2	0	59
<b>Alabama:</b>											
Birmingham.....	5	8	0	5	0	12	2	0	1	3	68
Mobile.....	1	2	0	0	0	0	1	0	0	0	17
Montgomery.....	0	0	0	0	0	0	1	0	0	0	12



## City reports for week ended November 14, 1925—Continued

Division, State, and city	Scarlet fever		Smallpox			Tuberculosis, deaths reported	Typhoid fever			Whooping cough, cases reported	Deaths, all causes
	Cases, estimated expectancy	Cases reported	Cases, estimated expectancy	Cases reported	Deaths reported		Cases estimated expectancy	Cases reported	Deaths reported		
<b>WEST SOUTH CENTRAL</b>											
Arkansas:											
Fort Smith.....	2	0	0	0			1	2		0	
Little Rock.....	2	2	0	0	0	2	1	0	0	0	
Louisiana:											
New Orleans.....	5	7	0	0	0	21	3	5	1	9	149
Shreveport.....	1	2	0	0	0	3	1	0	0	0	21
Oklahoma:											
Oklahoma City.....	3	2	0	0	0	0	1	6	0	0	19
Tulsa.....	2	2	0	0			1	0		1	
Texas:											
Dallas.....	4	5	1	0	0	2	2	4	1	0	57
Galveston.....	0	0	0	0	0	0	1	1	1	0	10
Houston.....	1	6	0	0	0	1	0	0	1	0	35
San Antonio.....	0	4	1	0	0	8	0	1	0	0	62
<b>MOUNTAIN</b>											
Montana:											
Billings.....	1	0	1	0	0	0	0	0	0	0	8
Great Falls.....	1	1	1	2	0	1	0	0	0	2	3
Helena.....	0	0	0	0	0	0	0	0	0	0	8
Missoula.....	1	0	0	0	0	1	0	0	0	0	9
Idaho:											
Boise.....	0	0	0	0	0	0	0	0	0	3	
Colorado:											
Denver.....	8		5		0	9	1		0		64
Pueblo.....	1	1	0	0	0	1	1	0	0	1	11
New Mexico:											
Albuquerque.....	1	2	0	0	0	2	1	0	2	0	6
Arizona:											
Phoenix.....		2		0	0	1		0	0		6
Utah:											
Salt Lake City.....	3	7	1	0	0	2	1	0	0	6	32
Nevada:											
Reno.....	1	0	0	0	0	0	0	0	0	0	2
<b>PACIFIC</b>											
Washington:											
Seattle.....	7	16	2	5			1	0		1	
Spokane.....	6	21	3	0			1	0		0	
Tacoma.....	1	1	1	2	0	0	0	0	0	1	21
Oregon:											
Portland.....	7	28	3	0	0	4	2	0	0	3	
California:											
Los Angeles.....	15	24	1	6	1	20	3	0	0	1	215
Sacramento.....	2	1	0	2	0	5	1	1	1	0	35
San Francisco.....	9	8	0	0	0	8	1	0	0	8	143

Division, State, and city	Cerebrospinal meningitis		Lethargic encephalitis		Pellagra		Poliomyelitis (infantile paralysis)		
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases, estimated expectancy	Cases	Deaths
<b>NEW ENGLAND</b>									
Massachusetts:									
Boston.....	0	0	1	1	0	0	1	2	1
<b>MIDDLE ATLANTIC</b>									
New York:									
Buffalo.....	1	0	0	0	0	0	0	0	1
New York City.....	2	2	4	2	0	0	8	2	1
Rochester.....	0	0	1	0	0	0	0	2	0



The following table gives the rates per 100,000 population for 103 cities for the 10-week period ended November 14, 1925. The population figures used in computing the rates were estimated as of July 1, 1923, as this is the latest date for which estimates are available. The 103 cities reporting cases had an estimated aggregate population of nearly 29,000,000, and the 96 cities reporting deaths had more than 28,000,000 population. The number of cities included in each group and the aggregate populations are shown in a separate table below:

*Summary of weekly reports from cities, September 6, to November 14, 1925—Annual rates per 100,000 population<sup>1</sup>*

## DIPHTHERIA CASE RATES

	Week ended—									
	Sept. 12	Sept. 19	Sept. 26	Oct. 3	Oct. 10	Oct. 17	Oct. 24	Oct. 31	Nov. 7	Nov. 14
103 cities.....	96	99	<sup>2</sup> 102	<sup>3</sup> 120	140	154	<sup>4</sup> 168	<sup>5</sup> 182	166	<sup>6</sup> 174
New England.....	77	144	84	77	99	124	<sup>6</sup> 97	137	97	127
Middle Atlantic.....	89	83	81	84	114	129	129	149	126	141
East North Central.....	75	81	113	<sup>3</sup> 140	164	174	189	195	187	194
West North Central.....	145	149	155	195	207	236	259	282	267	240
South Atlantic.....	127	94	117	225	191	224	<sup>7</sup> 268	228	211	<sup>8</sup> 253
East South Central.....	80	80	63	69	97	97	109	97	137	69
West South Central.....	125	60	79	65	83	93	102	264	199	213
Mountain.....	200	224	<sup>2</sup> 195	134	200	162	372	<sup>2</sup> 176	286	<sup>9</sup> 340
Pacific.....	78	136	107	107	107	110	142	157	148	145

## MEASLES CASE RATES

103 cities.....	23	30	<sup>2</sup> 36	<sup>3</sup> 41	55	70	<sup>4</sup> 93	<sup>5</sup> 105	154	<sup>6</sup> 176
New England.....	94	112	184	250	385	447	<sup>6</sup> 599	604	852	937
Middle Atlantic.....	25	34	32	35	47	65	87	110	159	171
East North Central.....	17	24	24	<sup>3</sup> 26	26	25	47	57	74	88
West North Central.....	4	10	6	8	6	10	10	12	15	10
South Atlantic.....	23	16	31	25	16	55	<sup>7</sup> 40	59	154	<sup>8</sup> 234
East South Central.....	0	6	11	11	11	6	40	17	17	17
West South Central.....	5	5	0	0	0	0	14	5	9	9
Mountain.....	10	10	<sup>2</sup> 29	10	38	10	29	<sup>2</sup> 20	38	<sup>9</sup> 75
Pacific.....	9	15	20	3	12	29	12	15	17	20

## SCARLET FEVER CASE RATES

103 cities.....	54	63	<sup>2</sup> 66	<sup>3</sup> 91	96	126	<sup>4</sup> 132	<sup>5</sup> 160	170	<sup>6</sup> 192
New England.....	65	62	47	89	109	132	<sup>6</sup> 130	201	271	246
Middle Atlantic.....	31	47	49	62	65	75	96	106	111	142
East North Central.....	61	62	70	<sup>3</sup> 104	117	151	142	194	167	189
West North Central.....	114	151	147	195	135	276	296	305	384	400
South Atlantic.....	57	39	66	69	98	137	<sup>7</sup> 134	193	185	<sup>8</sup> 174
East South Central.....	120	57	80	80	132	154	132	80	109	183
West South Central.....	32	42	14	51	65	56	42	42	102	121
Mountain.....	38	166	<sup>2</sup> 88	181	153	48	115	<sup>3</sup> 195	172	<sup>9</sup> 170
Pacific.....	38	67	81	93	107	142	133	148	162	206

<sup>1</sup> 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, 1923.

<sup>2</sup> Helena, Mont., not included.

<sup>3</sup> Superior, Wis., not included.

<sup>4</sup> Barre, Vt., and Winston-Salem, N. C., not included.

<sup>5</sup> Greenville, S. C., and Denver, Colo., not included.

<sup>6</sup> Barre, Vt., not included.

<sup>7</sup> Winston-Salem, N. C., not included.

<sup>8</sup> Greenville, S. C., not included.

<sup>9</sup> Denver, Colo., not included.

Summary of weekly reports from cities, September 6 to November 14, 1925—Annual rates per 100,000 population—Continued

SMALLPOX CASE RATES

	Week ended—									
	Sept. 12	Sept. 19	Sept. 26	Oct. 3	Oct. 10	Oct. 17	Oct. 24	Oct. 31	Nov. 7	Nov. 14
103 cities.....	6	7	16	12	5	8	17	10	10	18
New England.....	0	0	0	0	0	0	17	0	0	0
Middle Atlantic.....	0	0	0	0	0	0	0	0	0	0
East North Central.....	2	2	2	10	1	8	4	17	12	13
West North Central.....	4	4	2	2	10	0	4	27	12	4
South Atlantic.....	12	12	6	0	6	6	7	6	12	16
East South Central.....	23	40	34	0	17	46	6	6	29	34
West South Central.....	5	5	0	0	0	0	0	0	0	0
Mountain.....	19	0	139	10	10	29	10	10	19	138
Pacific.....	44	49	41	26	46	58	78	46	49	44

TYPHOID FEVER CASE RATES

103 cities.....	42	51	145	140	37	36	133	126	28	112
New England.....	35	30	22	47	17	25	115	17	22	2
Middle Atlantic.....	27	35	34	32	31	28	25	21	12	8
East North Central.....	22	19	31	18	22	32	9	16	19	9
West North Central.....	62	58	17	35	33	21	33	19	31	17
South Atlantic.....	51	111	94	54	55	70	78	27	64	10
East South Central.....	246	212	217	143	177	132	160	109	183	46
West South Central.....	74	167	102	97	60	46	83	83	51	60
Mountain.....	133	88	198	115	124	48	67	188	38	10
Pacific.....	29	29	23	29	9	20	32	20	9	3

INFLUENZA DEATH RATES

96 cities.....	5	5	13	14	3	6	18	11	13	112
New England.....	2	0	0	0	0	0	12	12	5	7
Middle Atlantic.....	3	6	3	3	3	5	8	10	14	14
East North Central.....	7	4	5	17	3	8	9	7	12	10
West North Central.....	0	7	4	7	4	7	7	11	7	13
South Atlantic.....	0	2	2	4	2	2	12	6	18	12
East South Central.....	6	6	0	17	0	17	6	29	40	29
West South Central.....	5	10	0	20	15	10	20	41	15	31
Mountain.....	29	20	10	0	10	0	38	10	10	0
Pacific.....	4	0	4	0	0	11	4	11	15	4

PNEUMONIA DEATH RATES

96 cities.....	64	62	157	162	66	94	196	122	141	138
New England.....	52	70	55	32	60	97	112	112	139	137
Middle Atlantic.....	68	62	66	68	64	94	104	137	153	144
East North Central.....	49	47	42	17	65	94	83	119	125	137
West North Central.....	37	46	28	37	46	61	63	99	88	83
South Atlantic.....	64	86	92	87	76	129	124	137	207	164
East South Central.....	154	86	46	109	120	103	132	114	166	177
West South Central.....	87	82	51	66	66	56	117	138	163	122
Mountain.....	38	117	178	143	95	124	115	178	105	181
Pacific.....	102	69	57	98	57	83	79	115	95	114

<sup>2</sup> Helena, Mont., not included.  
<sup>3</sup> Superior, Wis., not included.  
<sup>4</sup> Barre, Vt., and Winston-Salem, N. C., not included.  
<sup>5</sup> Greenville, S. C., and Denver, Colo., not included.  
<sup>6</sup> Barre, Vt., not included.  
<sup>7</sup> Winston-Salem, N. C., not included.  
<sup>8</sup> Greenville, S. C., not included.  
<sup>9</sup> Denver, Colo., not included.  
<sup>10</sup> Helena, Mont., and Tacoma, Wash., not included.  
<sup>11</sup> Tacoma, Wash., not included.

*Number of cities included in summary of weekly reports and aggregate population of cities in each group, estimated as of July 1, 1923*

Group of cities	Number of cities reporting cases	Number of cities reporting deaths	Aggregate population of cities reporting cases	Aggregate population of cities reporting deaths
Total.....	108	96	28,977,311	28,321,626
New England.....	12	12	2,098,746	2,068,746
Middle Atlantic.....	10	10	10,304,114	10,304,114
East North Central.....	16	16	7,135,899	7,135,899
West North Central.....	14	11	2,515,330	2,381,454
South Atlantic.....	21	21	2,542,498	2,542,498
East South Atlantic.....	7	7	911,885	911,885
West South Central.....	8	6	1,124,564	1,023,013
Mountain.....	9	9	546,445	546,445
Pacific.....	6	4	1,797,830	1,377,572

# FOREIGN AND INSULAR

## THE FAR EAST

*Report for week ended October 31, 1925.*—The following report for the week ended October 31, 1925, was transmitted by the Far Eastern Bureau of the League of Nations' Secretariat, located at Singapore, to the headquarters at Geneva:

Port	Plague		Cholera		Smallpox	
	Cases	Deaths	Cases	Deaths	Cases	Deaths
Calcutta.....		0		6	1	1
Bombay.....		0		0	4	2
Madras.....		0		0	7	2
Rangoon.....		3		0	1	0
Karachi.....		0		0	3	1
Negapatam.....		0		0	0	0
Colombo.....	1	1	0	0	0	0
Singapore.....	0	0	0	0	0	0
Port Swettenham.....	0	0	0	0	0	0
Penang.....	0	0	0	0	0	0
Batavia.....	0	0	0	0	0	0
Soerabaya.....	1	1	0	0	1	1
Samarang.....	0	0	0	0	0	0
Belawan Deli.....	0	0	0	0	0	0
Macassar.....	0	0	0	0	0	0
Sandakan (North Borneo).....	0	0	0	0	0	0
Kuching (Sarawak).....	0	0	0	0	3	0
Manila.....	0	0	6	0	0	0
Bangkok.....	0	0	19	12	0	0
Saigon and Cholon.....	0	0	0	0	0	0
Hongkong.....	0	0	1	0	0	1
Shanghai.....	0	0	0	0	0	0
Amoy.....	0	0	0	0	0	0
Nagasaki.....	0	0	0	0	0	0
Yokohama.....	0	0	0	0	0	0
Simonoseki.....	0	0	0	0	0	0
Moji.....	0	0	0	0	0	0
Kobe.....	0	0	3	0	0	0
Osaka.....	0	0	10	0	0	0
Keelung (Taiwan).....	0	0	0	0	0	0
Fusan.....	0	0	0	0	0	0
Dairen.....	0	0	0	0	1	0
Adelaide.....	0	0	0	0	0	0
Brisbane.....	0	0	0	0	0	0
Fremantle.....	0	0	0	0	0	0
Melbourne.....	0	0	0	0	0	0
Sydney.....	0	0	0	0	0	0
Suez.....	0	0	0	0	0	0
Alexandria.....	0	0	0	0	0	0
Port Said.....	1	0	0	0	0	0
Mombasa (Kenya).....	0	0	0	0	0	0
Massowah.....	0	0	0	0	0	0
Djibuti.....	0	0	0	0	0	0
Durban.....	0	0	0	0	0	0
Cape Town.....	0	0	0	0	0	0
Seychelles.....	0	0	0	0	0	0

## CHINA

*Further relative to cholera outbreak—Shanghai.*<sup>1</sup>—Information has been received under date of October 28, 1925, showing the prevalence of cholera at Shanghai, China, during the summer of 1925, and to October 17, as follows:

	Cases		Deaths
	Reported	Confirmed	
<b>Chinese:</b>			
Residents, international settlements.....	466	145	72
French concession.....	265	47	36
Outside settlement limits.....	1,196	319	128
Residence not known.....	86	98	12
	2,013	609	248
<b>Foreign:</b>			
Residents, international settlements.....	25	22	7
French concession.....	9	6	1
Outside settlement limits.....	19	16	5
Residence not known.....	6	5	2
	59	49	15

## INDO-CHINA

*Cholera—Plague—Smallpox—July, 1925.*—During the month of July, 1925, cholera, plague, and smallpox were reported in Indo-China as follows: *Cholera*—Cases, 12; deaths, 3; corresponding period 1924—cases, 19; deaths, 10.

*Plague.*—Cases, 46; deaths, 36; corresponding period 1924—cases, 26; deaths, 22.

*Smallpox.*—Cases, 144; deaths, 35; corresponding period 1924—cases, 119; deaths, 51. For distribution according to localities, see page 2864.

## LATVIA

*Communicable diseases—September, 1925.*—During the month of September, 1925, communicable diseases were notified in the Republic of Latvia as follows:

Disease	Cases	Disease	Cases
Cerebrospinal meningitis.....	1	Paratyphoid fever.....	2
Chicken pox.....	2	Scarlet fever.....	145
Diphtheria.....	54	Typhoid fever.....	138
Dysentery.....	19	Typhus fever.....	1
Measles.....	102	Whooping cough.....	33
Mumps.....	8		

Population, estimated, 1,850,000.

*Leprosy—Rabies.*—During the period under report two cases of leprosy and three cases of rabies were reported in the Republic of Latvia.

<sup>1</sup> Public Health Reports, Nov. 6, 1925, p. 2498.

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

The reports contained in the following tables must not be considered as complete or final as regards either the lists of countries included or the figures for the particular countries for which reports are given.

**Reports Received During Week Ended December 4, 1925<sup>1</sup>****CHOLERA**

Place	Date	Cases	Deaths	Remarks
Indo-China				July, 1925: Cases, 12; deaths, 3; corresponding period, 1924: Cases, 19; deaths, 10.
Cambodia	July 1-31	2		July, 1924: Cases, 7; deaths, 4.
Cochin-China	do	6	2	July, 1924: Cases, 7; deaths, 5.
Laos	do	1		None reported July, 1924.
Tonkin	do	3	1	July, 1924: Cases, 2.
Philippine Islands:				
Manila	Oct. 5-18	58	22	
Province:				
Bulacan	Sept. 27-Oct. 3	39	18	
Nueva Ecija	Sept. 13-26	2	1	
Rizal	Sept. 13-19	20	9	
Siam	June 28-Aug. 22	10	5	

**PLAGUE**

Indo-China				July 1-31, 1925: Cases, 46; deaths, 36; corresponding period, 1924, cases, 26; deaths, 22.
Annam	July 1-31	8	8	July, 1924: Cases, 4; deaths, 4.
Cambodia	do	16	13	July, 1924: Cases, 9; deaths, 9.
Kwang-Chow-Wan	do	22	15	None reported July, 1924.
Java:				Province.
Batavia	Oct. 2-9	72	70	
Soerabaya	Sept. 20-26	7	7	
Nigeria	July, 1925	21	15	
Senegal	Mar.-June	155	81	
Do	July-Aug.	150	89	
Siam	June 28-Aug. 22	37	27	

**SMALLPOX**

China:				
Manchuria—				
Dairen	Sept. 28-Oct. 18	4	1	
Harbin	Oct. 15-21	1		
France	August, 1925	42		
Gold Coast	do	130	10	
Great Britain:				
England—				
Newcastle-on-Tyne	Nov. 1-7	5		
Sheffield	Oct. 25-31	14		
Indo-China				July, 1925: Cases, 144; deaths, 35; corresponding period, 1924—Cases, 119; deaths, 51.
Annam	July 1-31	39	7	July, 1924: Cases, 11; deaths, 7.
Cambodia	do	62	18	July, 1924: Cases, 28; deaths, 13.
Cochin China	do	12	7	July, 1924: Cases, 73; deaths, 31.
Tonkin	do	31	3	July, 1924: Cases, 7.
Irak	May 21-June 27	50	16	
Do	June 28-Sept. 5	76	25	
Java:				
Soerabaya	Sept. 20-26	146	24	
Lithuania	August, 1925	3		
Mexico:				
Guadalajara	Nov. 10-16		2	
Mexico City	Nov. 1-7	2		Including municipalities in the Federal District.
Nigeria	July, 1925		21	
Russia	April, 1925	527		Later than previously published reports.
Do	January-April	5,875		Do.
Spain:				
Malaga	Oct. 25-Nov. 7		4	

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



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

### Reports Received During Week Ended December 4, 1925—Continued

#### TYPHUS FEVER

Place	Date	Cases	Deaths	Remarks
Bulgaria	August, 1925	12	2	
Chile:				
Valparaiso	Oct. 18-24		1	
Latvia	Sept., 1925	1		
Lithuania	June, 1925	4	1	
Do.	July-August	6		
Mexico:				
Mexico City	Nov. 1-7	6		Including municipalities in the Federal District.
Palestine:				
Bertusia	Oct. 20-26	1		
Jerusalem	do	1		
Rumania	June, 1925	130	15	
Russia	April, 1925	6,830		Later than previously published reports.
Do.	January-April	34,062		Do.

### Reports Received from June 27 to November 27, 1925<sup>1</sup>

#### CHOLERA

Place	Date	Cases	Deaths	Remarks
Algeria:				
Algiers	May 11-20	1		
Ceylon:				
Colombo	May 10-16	2	2	Jan. 25-June 27, 1925: Cases, 172; deaths, 120. June 28-Aug. 8, 1925: Cases, 27; deaths, 21.
Do.	Oct. 4-10	2	2	Immigrants.
China:				
Foochow	Aug. 23-Sept. 19	19	9	
Hongkong	Sept. 13-19	2	2	
Nanking	Sept. 6-12			Sporadic cases.
Shanghai	July-September	2,058	218	Foreign: Cases, 58; deaths, 15. Native: Cases, 2,000; deaths, 203.
South Manchuria—				
Yingkou	Sept. 27-Oct. 3	2		
Swatow	Oct. 8			Present.
India:				
Bombay	May 10-June 27	2	1	Apr. 26-June 27, 1925: Cases, 33,647; deaths, 19,950. June 28-Aug. 29, 1925: Cases, 16,453; deaths, 9,230. Sept. 13-19, 1925: Cases, 1,102; deaths, 702.
Do.	June 28-Aug. 15	11	7	
Calcutta	May 3-9	58	49	
Do.	May 17-23	79	61	
Do.	June 14-20	12	11	
Do.	July 5-Oct. 10	111	95	
Karachi	Aug. 30-Sept. 5	1	1	
Madras Presidency	June 6-20	4	1	
Do.	July 5-Oct. 3	49	19	
Rangoon	May 3-June 6	22	15	Feb. 8-14, 1925: Cases, 2; deaths 2. (Received out of date.)
Do.	June 14-27	12	8	
Do.	June 28-Oct. 10	9	8	
Indo-China:				
Saigon	May 4-June 7	4	3	Including 100 square kilometers of surrounding country.
Do.	June 23-July 12	3	2	
Do.	Aug. 3-9	1	1	Do.
Japan:				
Kobe	Sept. 4-6	5	2	
Taiwan Island, Taihoku	Oct. 1-8			Present.
Yokohama	Sept. 2	5	3	
Philippine Islands:				
Albay—				
Tabaco	June 14-20	1	1	
Batangas	Sept. 6-12	1	1	
Bulacan	do	1	1	
Do.	June 28-Sept. 19	5	4	
Camarines Sur	July 3-9	1		
Lagonoy	June 6-12	2	1	
Laguna	Sept. 6-12	1		
Leyte	July 8-14	1	1	
Manila	June 15-28	3		
Do.	June 29-Aug. 16	17	4	
Do.	Sept. 7-Oct. 4	175	64	

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

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

### Reports Received from June 27 to November 27, 1925—Continued

#### CHOLERA—Continued

Place	Date	Cases	Deaths	Remarks
<b>Philippine Islands—Contd.</b>				
Mountain Province	June 23-29	1	1	
Rizal Province	Aug. 2-8	2	1	
Do.	Aug. 16-Sept. 22	6	6	
Suracao	Aug. 16-22	1	1	
Zambales	Sept. 20-26	1	1	
<b>Siam:</b>				
Bangkok	Apr. 29-June 27	9	4	
Do.	Aug. 23-29	1	1	
<b>Turkey:</b>				
Constantinople	May 16-22	1	1	
<b>On vessel:</b>				
		1	1	At Nagasaki. Reported Sept. 2, 1925, arrived on vessel from China.
Steamship President Lincoln		1	1	At Kobe, Sept. 5, 1925, from Shanghai.
Steamship Amboise	Sept. 16, 1925	2	2	At Hongkong, China, from Yokohama, via Shanghai. In port at Shanghai Sept. 11-13, 1925. Arrived at Suez Oct. 15, 1925. Having received free pratique at the intermediary ports of Saigon, Singapore, Colombo, and Djibuti. Destination, Marseille.

#### PLAGUE

<b>Algeria:</b>				
Algiers	Oct. 11-20	1	1	
<b>Brazil:</b>				
Bahia	May 3-June 13	5	4	
Do.	Sept. 6-12	1	1	
<b>British East Africa:</b>				
Tanganyika Territory	Sept. 20-26	2	2	
Uganda	Feb. 1-28	28	28	
Do.	July	116	102	
Entebbe	May 4-June 30	79	74	Apr. 1-May 31, 1925: Cases, 129; deaths, 118.
<b>Ceylon:</b>				
Colombo	May 10-June 30	11	10	
Do.	June 28-Oct. 3	22	19	
<b>China:</b>				
Fochow	May 24-31	1	1	Reported present in epidemic form.
Do.	Aug. 23-29	1	1	Present.
Nanking	July 25-Oct. 17	1	1	Do.
North Manchuria	May 27	2	1	
Swatow	Oct. 11-17	1	1	Endemic.
<b>Ecuador:</b>				
Guayaquil	June 1-15	1	1	May 16-June 30, 1925: Rats examined, 30,347; found infected, 95. July 1-Oct. 15, 1925: Rats taken, 65,032; rats found infected, 272.
Do.	Sept. 1-Oct. 15	10	8	
<b>Egypt:</b>				
<b>City—</b>				
Alexandria	June 17-24	2	2	Bubonic.
Do.	Sept. 10-16	1	1	
Port Said	June 17-18	1	1	
Do.	June 28-Sept. 3	11	3	
Do.	Oct. 1-7	2	2	
Suez	June 14-27	3	2	
Do.	Aug. 19	1	1	Septicemic.
<b>Province—</b>				
Assiut	June 5	1	1	
Beni-Souef	June 10-16	8	4	
Do.	Aug. 6-12	5	2	
Charkieh	June 6-8	1	1	
Kena	June 17	1	1	
Minia	June 6-17	3	2	

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

## Reports Received from June 27 to November 27, 1925—Continued

### PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
France:				
Chateau Gombert.....	Oct. 13.....	1	1	Distant 8½ kilometers from Marsoille.
Marselle.....	Aug. 13-18.....	3	3	
Gold Coast.....	March-April.....	3	3	
Greece:				
Athens.....	July 1-Oct. 10.....	64	18	Ionian Islands. Case stated to have originated at Patras.
Cephalonia.....	Nov. 10.....	1	1	
Piræus.....	July 18-Aug. 14.....	9	9	
Pyrgos.....	Sept. 1.....	1	1	
Saloniki.....	Sept. 22-Oct. 12.....	2	1	
Hawaii Territory:				
Honokaa.....	June 28.....			Plague-infected rat.
Do.....	Aug. 7.....	1		
Do.....	Aug. 15.....			Plague-infected rat, near Paauilo.
Kukuihaele.....	July 31.....			Plague-infected rat.
Paauhau.....	Aug. 12.....			Do.
India:				Apr. 26-June 27, 1925: Cases, 10,166; deaths, 8,913. June 28-Sept. 19, 1925: Cases, 8,769; deaths, 5,951.
Bombay.....	Apr. 26-June 27.....	65	59	
Do.....	June 28-Oct. 3.....	24	18	
Calcutta.....	May 30-June 6.....	1	1	
Do.....	July 5-11.....	1	1	
Karachi.....	May 18-June 6.....	4	3	
Do.....	July 31-Aug. 6.....	1	1	
Do.....	Sept. 6-Oct. 10.....	23	12	
Madras.....	May 10-June 27.....	15	8	
Do.....	June 28-Sept. 19.....	185	78	
Do.....	Oct. 20-26.....	7	8	
Rangoon.....	May 3-June 27.....	113	95	Feb. 8-14, 1925: Cases, 13; deaths, 13. (Received out of date.)
Do.....	June 28-July 4.....	20	18	
Do.....	July 12-Oct. 10.....	240	203	
Indo-China:				
Cochin China—				
Saigon.....	Apr. 20-June 21.....	3	3	Including 100 square kilometers of surrounding country.
Do.....	Aug. 31-Sept. 20.....	4	3	Do.
Irak:				
Bagdad.....	May 24-June 6.....	9		
Do.....	June 21-27.....	5	1	
Italy:				
Naples Province—				
Secondigliano.....	Sept. 3-5.....	2		From the Bulletin Quarantenaire, Egypt, Sept. 17, 1925.
Japan:				
Taiwan—				
Taihoku.....	Oct. 2-6.....	1	1	
Java:				
Batavia.....	May 6-June 19.....	32	31	In Province.
Do.....	July 5-31.....	65	65	
Do.....	Aug. 8-14.....	28	26	Do.
Do.....	Aug. 22-Sept. 11.....	100	101	Do.
Do.....	Sept. 26-Oct. 2.....	56	55	
Besoeki Residency.....	Aug. 4-Sept. 5.....			Epidemic.
Cheribon.....	Apr. 1-June 27.....		102	
Do.....	June 28-Sept. 12.....		201	
Djakakarta.....	Sept. 2-5.....			Do.
Kediri.....	do.....			Do.
Pasoeroean Residency.....	Mar. 7-May 25.....			Epidemic in several localities.
Do.....	July 13.....			Do.
Pekalongan.....	Apr. 9-June 27.....		96	
Do.....	June 28-July 25.....		9	
Do.....	Aug. 1-Sept. 12.....		78	
Soerabaya.....	May 7-27.....	3	3	
Do.....	June 28-Aug. 29.....	22	7	
Do.....	Sept. 6-19.....	18	18	Epidemic at Teman.
Soerakarta Residency.....	May 28.....			Epidemic at Kalidgambe.
Do.....	Aug. 5-12.....			Epidemic at Klaten.
Do.....	Sept. 11-17.....			Epidemic in four localities.
Tegal.....	Apr. 2-May 16.....		36	
Do.....	May 24-June 13.....		16	
Do.....	Aug. 1-22.....		11	
Madagascar:				
Province—				
Itasy.....	Apr. 1-15.....	1	1	Bubonic, 3; septicemic, 1.
Do.....	July 1-15.....	4	4	
Tananarive.....	Apr. 1-June 30.....	232	200	Bubonic, 25; pneumonic, 28; septicemic, 17.
Do.....	July-August.....	70	66	

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

### Reports Received from June 27 to November 27, 1925—Continued

#### PLAGUE—Continued

Place	Date	Cases	Deaths	Remarks
<b>Madagascar—Continued.</b>				
Town—				
Tamatave (port).....	Apr. 1-15.....	2		
Do.....	June 1-7.....		1	
Tananarive Town.....	Apr. 16-May 31.....	5	5	
Do.....	Aug. 1-31.....	5	5	
Mauritius.....				April, 1925: 1 case. August, 1925: 1 case. Sept. 18, 1925: Plague-infected rats found.
Nigeria.....	December, 1924.....	17	13	
Do.....	January, 1925.....	10	6	
Do.....	March-June.....	25	20	
Peru.....				July-August, 1925: Cases, 40; deaths, 18.
Barranca.....	July-August.....	8	6	
Callao.....	do.....	3	2	
Canete.....	do.....	5	1	
Huacho.....	July.....	3	1	
Lima (city).....	July-August.....	15	7	
Lima (country).....	do.....	6	1	
Russia:				
Kalmyk District.....	May 19-31.....	10	8	
North Caucasus.....	June 6-7.....	2	2	
Urts.....	May 25-June 3.....	2	2	In laboratory worker and contact. Province of Bukееvsk.
Siam:				
Bangkok.....	Apr. 26-June 20.....	13	11	
Do.....	June 28-Sept. 26.....	6	5	
Do.....				Sept. 18, 1925: Plague-infected rats found.
Straits Settlements:				
Singapore.....	May 3-30.....	9	9	
Do.....	June 28-Aug. 1.....	3	3	
Syria:				
Beirut.....	Sept. 4-Oct. 10.....	3		
Tunis:				
Tunis.....	Aug. 12-18.....			Plague rodent.
Turkey:				
Constantinople.....	May 25-31.....	1		
Union of South Africa:				
Cape Province—				
Kimberley.....	June 14-20.....	1	1	In a Malay camp.
Do.....	July 5-11.....			One plague-infected house mouse.
Orange Free State—				
Boshof District.....	June 28-Aug. 15.....	5	2	Natives.
On vessel:				
Steamship Eustratios Ca- voundis.....	July 7-11.....	4	1	At Alexandria, Egypt. Vessel arrived July 7, 1925. Regular route, ports in Syria, Greece, and Port Said. Dead rats reported found on board.
Steamship Arcadia.....	July 24-27.....	2		At Piræus, Greece, from Alexandria, Egypt.
Steamship Anatolia.....	Aug. 8.....	1		Do.
Steamship City of Nor- wich.....	Apr. 15.....	1		At Port Said, Egypt, Apr. 14, 1925, from Rangoon, Colombo, and Perim; destination, London. Case occurred in first officer of vessel.
Steamship Naxos.....	Sept. 12.....	1		At Rhodes, from Dodecanese Islands via Alexandria, Egypt. The vessel left Alexandria Sept. 9, 1925.

#### SMALLPOX

<b>Algeria:</b>				
Algiers.....	May 1-June 30.....	43	2	
Do.....	July 1-Aug. 20.....	67		
Do.....	Sept. 1-Oct. 20.....	15		
Constantine.....	do.....	47		
<b>Bolivia:</b>				
La Paz.....	Apr. 1-June 30.....	10		
Do.....	July 1-Aug. 31.....	8		

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

## Reports Received from June 27 to November 27, 1925—Continued

### SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
<b>Brazil:</b>				
Bahia	June 28-Sept. 5	8	6	
Do.	Sept. 19-26	2	2	
Pernambuco	Apr. 26-May 30	40	21	
Do.	June 7-27	5	3	
Do.	July 5-18	1	1	
Porto Alegre	June 14-20		1	
Do.	Aug. 9-15		1	
Rio de Janeiro	May 9-June 27	5	1	
Do.	June 28-Aug. 15	122	36	
Do.	Aug. 29-Oct. 17	222	122	
<b>British East Africa:</b>				
Kenya—				
Mombasa	Apr. 19-June 20	27	13	
Do.	July 5-Oct. 10	73	20	
Nairobi	May 3-9	3	2	
Tanganyika Territory	Apr. 5-May 23	82	24	
Do.	June 14-27	48	3	
Do.	Aug. 9-15	1,181	427	
Do.	Aug. 23-Sept. 26	40	5	
Uganda	Feb. 1-28	2		
Entebbe	June 1-30	1		
<b>British South Africa:</b>				
Northern Rhodesia				
Do.	Apr. 28-May 4	3		
Do.	Sept. 8-14	34		Natives.
Southern Rhodesia	June 11-July 1	2		
Do.	Aug. 20-Sept. 16	4		Do.
<b>Bulgaria:</b>				
Sofia	Aug. 6-19	2		
<b>Canada:</b>				
Alberta—				
Calgary	Aug. 2-Sept. 26	2		
British Columbia—				
Vancouver	June 1-28	7		
Do.	July 6-Oct. 25	18	1	
New Brunswick—				
Restigouche County	June 1-30	1		
Ontario				
Galt	June 14-20	2		
Kingston	do.	1		
Do.	Aug. 23-29	1		
North Bay	June 28-July 18	3		
Toronto	Oct. 4-17	3		
Saskatchewan—				
Regina	May 24-30	3		
<b>China:</b>				
Amoy	May 17-June 30		7	
Do.	July 12-Oct. 3			Present.
Antung	May 11-June 21	7		
Do.	June 29-Aug. 9	3		
Do.	Sept. 7-13	4		
Canton	May 10-June 13			Do.
Chungking	May 3-30			Widespread.
Foochow	May 9-Oct. 3			Present.
Hongkong	Apr. 19-June 13	15	12	
Do.	July 19-25	1		
Manchuria—				
Dairen	Apr. 13-June 28	115	17	
Do.	June 28-Sept. 27	8	5	
Harbin	May 13-June 2	2		
Do.	Oct. 1-7	1		
Nanking	May 9-Oct. 17			Do.
Shanghai	May 3-June 6	5	2	
Do.	July 6-Oct. 3	1	3	
Swatow	May 17-Oct. 17			Stated to be endemic.
Tientsin	May 9-June 6	3		
Do.	July 12-18	1		
<b>Chosen:</b>				
Seoul	January-May	1,663	386	January-June, 1925: Cases, 341; deaths, 74.
<b>Colombia:</b>				
Buenaventura	Sept. 15-29	1		
<b>Czechoslovakia:</b>				
				Apr. 1-June 30, 1925: Cases, 3; deaths, 1. Occurring in State of Slovakia.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued****Reports Received from June 27 to November 27, 1925—Continued****SMALLPOX—Continued**

Place	Date	Cases	Deaths	Remarks
Egypt				January-July 1, 1925: Cases, 341; deaths, 74. July 2-Aug. 4, 1925: Cases, 45; deaths, 15.
Alexandria	May 21-27	1	1	
Cairo	Mar. 19-May 13.	5		
Do	June 18-24	17	5	
France				February-June, 1925: Cases, 102. July, 1925: Cases, 49.
Paris	May 21-31	1		
Germany:				
Baden (State)	July 12-25	2	1	
Stuttgart	July 5-Sept. 19	4	1	
Gibraltar				Year 1924: Cases, 6.
Gold Coast				January-June, 1925: Cases, 1,121; deaths, 99. July, 1925: Cases, 159; deaths, 36.
Great Britain:				
England and Wales				May 24-June 27, 1925: Cases, 441. June 28-Oct. 24, 1925: Cases, 832.
Birmingham	July 7-13	1		
Cardiff	June 14-20	1		
Do	Aug. 2-8	14	8	
Hull	Oct. 25-31	12		
Newcastle-on-Tyne	May 31-June 27	4		
Do	June 28-Oct. 31	20	1	
Sheffield	Oct. 4-24	24		
Greece				January-June, 1925: Cases, 47; deaths, 8. July, 1925: Cases, 2.
Athens	May 1-31		2	
Do	June 24-30	27	3	
Do	July 1-31	14	1	
Do	Sept. 1-30	8		
Saloniki	Sept. 22-28		1	
Haiti:				
Port au Prince	Aug. 23-29	1		Reported at Jean Rabel Aug. 27.
Hungary:				
Budapest	July 5-18	13		
India				Apr. 26-June 27, 1925: Cases, 37,107; deaths, 9,152. June 28-Sept. 19, 1925: Cases, 22,089; deaths, 5,246.
Bombay	Apr. 26-June 27	156	115	
Do	June 28-Oct. 3	37	23	
Calcutta	May 3-9	109	100	
Do	May 17-23	75	61	
Do	May 31-June 20	88	81	
Do	July 5-Oct. 10	71	60	
Karachi	May 18-June 27	6	1	
Do	June 28-July 4	1	1	
Do	Aug. 30-Sept. 26	10	6	
Madras	May 18-June 27	152	66	
Do	June 28-July 18	55	25	
Do	Aug. 2-Oct. 17	153	61	
Rangoon	May 3-June 27	207	99	
Do	June 28-July 4	2	1	
Do	July 12-Sept. 19	29	14	
Indo-China:				
Cochin-China—				
Saigon	Apr. 20-May 21	13	9	Including 100 square kilometers of surrounding country.
Do	Aug. 17-Sept. 20	16	4	Do.
Irak				Jan. 11-May 30, 1925: Cases, 136; deaths, 46.
Bagdad	Apr. 26-June 20	4	1	
Do	Sept. 27-Oct. 3	1	1	
Italy				
Do	Dec. 28-June 27	97		
Do	June 28-Aug. 1	29		
Catania	Aug. 17-23	1		
Syracuse Province	do	1		
Turin	Aug. 17-Sept. 13	7		
Venice	July 27-Aug. 2	3		
Jamaica				Apr. 26-June 27, 1925: Cases, 110. June 28-Oct. 31, 1925: Cases, 244 (reported as alastrim). Reported as alastrim.
Kingston	Apr. 26-June 27	19		
Do	June 28-Oct. 31	93		Do.
Japan:				
Kobe	May 24-June 27	2		
Nagasaki	May 15-21	2		
Do	July 6-19	1	1	
Taiwan	June 1-30	11		
Do	July 1-31	1		
Tokyo	June 14-20	1		
Yokohama	May 25-June 12	3		

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

## Reports Received from June 27 to November 27, 1925—Continued

### SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Java:				
Bantam Residency.....	June 14-27.....	2		
Do.....	Aug. 1-8.....	4		
Batavia.....	May 2-June 26.....	2		
Do.....	July 4-31.....	5		
Do.....	Aug. 8-Sept. 25.....	6		Province.
Besoel.....	Aug. 23-Sept. 5.....	14	2	
Brebes.....	Apr. 22-28.....	1		
Cheribon.....	Apr. 16-22.....		1	
Do.....	July 12-Aug. 15.....	2		Do.
Kediri Residency.....	July 14.....			Epidemic.
Paseroean.....	Aug. 30-Sept. 5.....	35	1	
Do.....	Sept. 17.....			Do.
Pekalongan.....	Apr. 2-8.....	1		
Rembang Residency.....	Apr. 23.....			Epidemic at Kawedanan.
Do.....	Aug. 8.....			Epidemic at Montong.
Soerabaya.....	Apr. 16-June 27.....	304	41	
Do.....	June 28-Aug. 8.....	373	43	
Do.....	Aug. 16-Sept. 19.....	477	69	
South Bantam.....	Apr. 16-22.....	1		
Tegal.....	Mar. 29-May 2.....	2	1	
Latvia.....				May-June, 1925: Cases, 4. July, 1925: Case, 1.
Lithuania.....				February-May, 1925: Cases, 6.
Malta.....	June 1-30.....	9		
Do.....	July 1-Aug. 31.....	9	1	
Do.....	Oct. 5-21.....	24	4	Valetta and vicinity. From contact at Lazaretto, 1 case.
Floriana.....	do.....	14		
Valetta.....	do.....	7		
Mexico.....				January-June, 1925: Deaths, 2,667.
Durango.....	July-October.....		31	
Guadalajara.....	June 2-29.....		10	
Do.....	June 30-Sept. 21.....		3	
Merida.....	Sept. 20-Oct. 16.....	2		
Mexico City.....	May 24-July 27.....	12		Including municipalities in Federal district.
Do.....	July 5-11.....	3		
Do.....	July 26-Sept. 5.....	8		Do.
Do.....	Sept. 27-Oct. 24.....	4		Do.
Oxaca, State.....	Aug. 14.....			Epidemic at El Hule and other localities.
San Luis Potosi.....	Aug. 16-Sept. 19.....	3	2	
Do.....	Oct. 11-24.....		3	
Tampico.....	June 1-10.....		1	
Do.....	July 1-31.....	4	2	
Torreón.....	Aug. 1-Sept. 30.....	2	4	
Morocco:				
Tangier.....	May 17-June 5.....			Present among natives.
Nigeria.....				December, 1924: Cases, 40; deaths, 16.
Do.....				January-June, 1925: Cases, 1,541; deaths, 169.
Persia:				
Teheran.....	Mar. 21-May 21.....		29	
Peru:				
Arequipa.....	June 1-30.....		1	
Do.....	Aug. 1-31.....	4		
Lima.....	do.....	5		
Poland.....				Mar. 1-June 27, 1925: Cases, 41. July 5-12, 1925: Cases, 2. Aug. 2-8, 1925: Case, 1.
Portugal:				
Libson.....	Apr. 26-June 27.....	36	6	
Do.....	June 28-Oct. 11.....	100	20	
Oporto.....	June 14-20.....	1		
Do.....	July 19-Aug. 29.....	7		
Rumania.....				January-May, 1925: Cases, 29; death, 1.
Russia.....				December, 1924: Cases, 1,000; January-April, 1925: Cases, 5,733.
Ukraine.....	July 1-31.....	19		
Siam:				
Bangkok.....	Apr. 28-June 27.....	27	19	
Do.....	June 28-July 11.....	2	1	

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

### Reports Received from June 27 to November 27, 1925—Continued

#### SMALLPOX—Continued

Place	Date	Cases	Deaths	Remarks
Spain:				
Malaga.....	May 24-June 20.....	-----	15	
Do.....	July 5-Oct. 17.....	-----	46	
Valencia.....	May 31-June 27.....	3	1	
Straits Settlements:				
Singapore.....	May 17-23.....	1	-----	
Do.....	July 5-11.....	1	1	
Sumatra:				
Pedang.....	July 12-25.....	5	-----	
Switzerland:				
Berne.....	June 7-13.....	1	-----	
Lucerne.....	June 14-20.....	4	-----	
Syria:				
Beirut.....	Apr. 21-30.....	1	-----	
Tripoli.....				Jan. 3-Apr. 15, 1925: Cases 14.
Tunis:				
Tunis.....	May 6-June 30.....	-----	46	
Do.....	July 1-Oct. 6.....	-----	91	
Turkey:				
Constantinople.....	May 16-22.....	2	-----	
Union of South Africa:				
Cape Province.....	May 24-Sept. 12.....	-----	-----	July 1-31, 1925: Cases, 8. Outbreaks.
Port Elizabeth.....	Apr. 18-25.....	8	1	
Orange Free State.....	Aug. 9-Sept. 5.....	-----	-----	Outbreak in Ladybrand district.
Transvaal.....	May 3-June 6.....	-----	-----	Outbreaks.
Do.....	Aug. 30-Oct. 3.....	-----	-----	Do.
Johannesburg.....	Sept. 5-11.....	1	-----	
Uruguay:				
Do.....				December, 1924: Cases, 8.
Montevideo.....	Aug. 1-31.....	1	-----	February-May, 1925: Cases, 11.

#### TYPHUS FEVER

Algeria:				
Algiers.....	May 11-20.....	6	2	In vicinity, 12 cases. Isolated.
Do.....	July 1-Oct. 20.....	21	8	
Constantine.....	July 1-10.....	17	-----	District.
Do.....	July 21-31.....	7	-----	Department.
Oran.....	do.....	8	-----	Do.
Bolivia:				
La Paz.....	Apr. 1-June 30.....	5	-----	
Do.....	Aug. 1-31.....	1	-----	
Bulgaria:				
Sofia.....	May 28-June 3.....	2	-----	November-December, 1924: 1 case. January-June, 1925: Cases, 124; deaths, 7. July, 1925: Cases, 27; deaths, 3.
Canary Islands:				
Santa Cruz de Teneriffe.....	Sept. 14-20.....	-----	1	
Chile:				
Iquique.....	Aug. 8-22.....	-----	2	
Valparaiso.....	May 10-June 27.....	-----	2	
Do.....	June 28-Oct. 17.....	-----	16	
China:				
Manchuria—				
Harbin.....	May 19-June 2.....	2	-----	
Do.....	Sept. 2-Oct. 14.....	3	-----	
Chosen.....	January-May.....	394	69	
Czechoslovakia.....				April-June, 1925: 1 case, occurring in Province of Ruzsinia. July, 1925: Cases, 3. January-June, 1925: Cases, 1,011; deaths, 211. July 2-Aug. 4, 1925: Cases, 107; deaths, 19.
Egypt:				
Alexandria.....	May 7-June 3.....	3	1	
Do.....	July 9-Sept. 17.....	3	-----	
Cairo.....	Mar. 26-May 13.....	6	4	
Do.....	July 16-29.....	3	1	
Port Said.....	May 14-20.....	1	1	
Do.....	July 30-Aug. 12.....	4	1	
Do.....	Aug. 20-26.....	3	-----	
Esthonia.....				Apr. 1-May 30, 1925: Cases, 6. August, 1925: Cases, 1.
Great Britain:				
Scotland—				
Glasgow.....	Sept. 6-Oct. 8.....	2	-----	
Greenock.....	May.....	-----	2	
Do.....	Aug. 6-18.....	7	-----	



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

### Reports Received from June 27 to November 27, 1925—Continued

#### TYPHUS FEVER—Continued

Place	Date	Cases	Deaths	Remarks
Greece				January-June, 1925: Cases, 57; deaths, 6. July-August, 1925: Cases, 17; deaths, 3. Including Piræus.
Athens	May 1-31		2	
Do.	Sept. 1-30	12	1	
Kalamata	Apr. 1-30		2	
Patras	June 28-July 4		2	
Irak:				
Bagdad	July 12-18	1		
Ireland:				
Cork County	Aug. 25	3		
Latvia				April-June, 1925: Cases, 26. July-August, 1925: Cases, 9.
Libau	July 14-20	1		
Lithuania				March-May, 1925: Cases, 158; deaths, 7.
Mexico				January-June, 1925: Deaths, 124. Including municipalities in Federal district.
Mexico City	May 24-June 6	24		
Do.	June 28-Aug. 1	39		Do.
Do.	Aug. 16-Oct. 24	93		Do.
San Luis Potosi	June 26-Nov. 7		3	
Tampico	Aug. 20-31	1		
Morocco				January-June, 1925: Cases, 421 July, 1925: Cases, 59.
Palestine				Sept. 15-Oct. 19, 1925: 9 cases, occurring in 6 localities, viz, Beit Gan, Haifa, Kehruria, Rishon, Safad, and Tel-Aviv.
Dagama	July 21-27	1		
Ekron	do.	1		
Haifa	Aug. 20-Sept. 28	2		
Jaffa district	June 28	2		
Do.	Aug. 20-Sept. 14	3		
Jerusalem	July 29-Sept. 14	9		From Ramleh district.
Majrial	May 26-June 8	3		
Ramleh	May 19-25	1		
Safad	June 9-15	1		
Do.	July 21-27	1		
Tel Aviv	do.	1		
Persia:				
Teheran	Apr. 21-May 21		1	
Peru:				
Arequipa	Apr. 1-June 30		3	
Do.	July 1-31		1	
Do.	Sept. 1-30		1	
Poland				Mar. 1-Apr. 11, 1925: Cases, 1,195; deaths, 74. Apr. 19-June 27, 1925: Cases, 1,001; deaths, 87. July 5-Aug. 15, 1925: Cases, 173; deaths, 16. Aug. 16-Sept. 5, 1925: Cases, 47; deaths, 2.
Portugal:				
Oporto	May 31-June 6	1		
Do.	July 5-Sept. 26	2		
Rumania	January-May	1,360	152	
Constantza	May 1-June 30	2		
Do.	Sept. 1-10	1		
Russia				December, 1924: Cases, 5,062. January-April, 1925: Cases, 30,107.
Ukraine	July 1-31	248		
Spain:				
Seville	Aug. 20-26		1	
Valencia	June 7-13		1	
Tripoli	June 1-30	3		
Tunis:				
Tunis	May 21-June 17	16	8	
Do.	July 8-Sept. 18	12	5	
Turkey:				
Constantinople	May 11-31		2	
Union of South Africa				June, 1925: Cases, 61; deaths, 4.
Cape Province	May-June, 1925	64	6	July, 1925: Cases, 161; deaths, 34.
Do.	July, 1925	31	4	
Do.	Aug. 23-Oct. 10			Outbreaks.
East London	Sept. 13-19	1		Native.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued**
**Reports Received from June 27 to November 27, 1925—Continued**
**TYPHUS FEVER—Continued**

Place	Date	Cases	Deaths	Remarks
Union of South Africa—Contd.				
Natal	May-June, 1925	16		
Do.	July, 1925	15	5	
Durban	Feb. 1-June 27	17		
Do.	June 28-Aug. 29	2		
Orange Free State	May-June, 1925	53	5	
Do.	July, 1925	99	20	
Do.	Sept. 6-12			Outbreaks.
Hoopstad	July 5-11			Do.
Transvaal	May-June, 1925	17	4	
Do.	July, 1925	16	5	
Do.	Aug. 9-15			Do.
Johannesburg	July 19-25	1		
Yugoslavia:				
Belgrade	June 8-14	1		
Zagreb	May 8-21	7	1	

**YELLOW FEVER**

Gold Coast	Apr. 1-30	1		
Do.	July, 1925	1	1	
Ivory Coast:				
Lahou	June 1-10		1	
Liberia:				
Monrovia	Aug. 7	4		
Nigeria:				
Do.	April-June	12	6	
Do.	July, 1925	4	3	
Ibaden	Apr. 24-30	1		
Lagos	Apr. 29-May 5	4	1	

X