

PUBLIC HEALTH REPORTS

VOL. 39

OCTOBER 17, 1924

No. 42

COOPERATIVE RURAL HEALTH WORK OF THE PUBLIC HEALTH SERVICE IN THE FISCAL YEAR 1924.¹

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In the fiscal year ended June 30, 1924, the United States Public Health Service cooperated in demonstration projects in rural health work in 72 counties, or districts comparable to counties, in 16 States, as follows:

Alabama.—Calhoun, Colbert, Franklin, Lauderdale, Limestone, Madison, Talladega, and Walker Counties.

California.—San Joaquin district.

Georgia.—Clarke, Decatur, Floyd, Glynn, Laurens, Miller, Seminole, and Walker Counties.

Iowa.—Dubuque County.

Kansas.—Cherokee County.

Kentucky.—Mason County.

Louisiana.—DeSoto and Washington Parishes.

Massachusetts.—Cape Cod district.

Mississippi.—Harrison and Washington Counties.

Missouri.—Dunklin, Gentry, Greene, New Madrid, Nodaway, Pettis, Polk, and St. Francois Counties.

Montana.—Cascade and Lewis and Clark Counties.

New Mexico.—Bernalillo, Chaves, Colfax, Eddy, McKinley, Santa Fe, Union, and Valencia Counties.

North Carolina.—Edgecombe, Sampson, and Surry Counties.

Oklahoma.—Ottawa County.

Virginia.—Arlington, Caroline, Carroll, Charlotte, Chesterfield, Grayson, Greene, Greenville, Henry, Madison, Mathews, Nansemond, Prince Edward, Pulaski, Roanoke, Smyth, Spotsylvania, Stafford, and Wise Counties.

West Virginia.—Hancock, Harrison, Logan, Marion, Preston, and Taylor Counties.

¹ This report applies to work in rural sanitation which is conducted in support of and as a part of whole-time local official health service. It does not include all cooperative activities of the Public Health Service in rural communities.

The results were entirely in support of the conclusions in the reports on this activity in the fiscal years 1920,² 1921,³ 1922,⁴ and 1923.⁵

Plan of Work.

The plan of the work was identical with that carried out in the four preceding fiscal years and is described in previous reports. (Reprints Nos. 615, 699, and 887.) The appropriation for the support of this activity is "for special studies of and demonstration work in rural sanitation." In each demonstration project the rural sanitation work is made a part of a well-rounded, comprehensive program of health work, and is conducted in cooperation with the State and local health authorities. Such a program of health work can be carried out on the cooperative basis in most rural counties in the United States at a cost to each county readily within its means, and in accordance with what logically should be its desires for public health service. The projects furnish a remarkable example of efficiency with economy in public service. By having all salient branches of health work for the community conducted under the direction of one head, the whole-time county health officer, who is given a status of field agent in the United States Public Health Service and in some of the States that of deputy State health officer, a maximum of service can be rendered with a minimum of overhead expense. By good business management, every dollar invested in the enterprise can be made to yield a remarkable dividend in the protection and promotion of human health and in a money saving to the community amounting to many times over the cost of the service. No radical change in the plan appears advisable; but the provision of adequate means to enable a reasonable extension would be highly advantageous and is urgently important from every standpoint—individual, community, State, and national.

Expenditures.

The appropriation for the rural health work of the Public Health Service in the fiscal year 1924 was \$50,000. At the termination of the fiscal year 1923, \$10,817.82 remained unexpended under contracts made during that year. Thus, \$60,817.82 was available for the support of the activity in the fiscal year 1924. Of this sum, \$43,584.52 was expended in allotments for cooperative projects in counties and \$4,463.55 was expended for administration, supervision of local projects, and special studies of the problem of rural sanitation.

² Reprint No. 615, from Public Health Reports of Oct. 1, 1920, p. 15.

³ Reprint No. 699, from Public Health Reports of Oct. 7, 1921, p. 17.

⁴ Reprint No. 788, from Public Health Reports of Sept. 29, 1922, p. 22.

⁵ Reprint No. 887, from Public Health Reports of Dec. 14, 1923, p. 24.

The unexpended balance of the total sum available was included in allotments to some of the cooperative projects which, because of various local circumstances, could not be completed by the end of the fiscal year. With the existing differences between the Federal fiscal year and the fiscal years of some of the States and localities in which the work is done, it would not be practicable, without lessening the degree of economy striven for, to arrange contracts so that the allotment of Federal funds to every project would be expended exactly by the end of the Federal fiscal year.

The total expenditure for the support of the 72 local projects was \$583,791.73 in the fiscal year 1924. Of this sum, an aggregate of \$465,185.09 was provided from State, county, and municipal governmental sources; \$75,022.12 came from civic sources, such as local health associations, local Red Cross chapters, and the International Health Board; and \$43,584.52 came from the rural sanitation funds of the Public Health Service. Thus, this investment of Federal funds was met with odds of over 12 to 1. The proportion of the expenses covered with funds from local sources is significant; it gives some idea of the stimulating effect of the cooperation of the Federal Government in this vitally important, nation-wide field.

The expenditures from the different sources for the support of the projects, the scope, the principal activities, and some of the results of the work are presented in the accompanying tabular statement.

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924.

Counties (or districts)	Arlington, Va.	Bern- hill, N. Mex.	Calhoun, Ala.	Cape Cod Health District, Mass.	Cascade, Mont.	Chaves, N. Mex.	Cherokee, Kans.	Clarke, Ga.	Colbert, Ala.	Colfax, N. Mex.
Period of work in fiscal year 1924.....	July 1, 1923, to Jan. 31, 1924.	Jan. 1, 1924, to June 30, 1924.	Mar. 1, 1924, to June 30, 1924.	July 1, 1923, to June 30, 1924.	July 1, 1923, to June 30, 1924.	Feb. 1, 1924, to June 30, 1924.	July 1, 1923, to June 30, 1924.	July 1, 1923, to June 30, 1924.	July 1, 1923, to June 30, 1924.	Feb. 1, 1924, to June 30, 1924.
Expenditures:										
(a) Rural-sanitation fund (P. H. S.).....	\$175.00	\$150.00	\$293.32	\$2,498.96	\$2,020.00	\$136.35	\$300.00	\$1,460.00	\$600.00	\$150.00
(b) State.....	583.34	1,340.00	1,340.00	8,211.28	8,211.27	2,887.05	9,038.97	7,244.54	3,490.00	1,490.00
(c) County.....	11,024.96	5,294.09	1,939.08	8,211.27	8,211.27	2,126.59	2,126.59	4,416.95	4,214.13	2,460.00
(d) Municipalities.....	1,399.98	800.00	1,233.32	3,237.51	1,320.00	1,095.00	5,140.87	2,089.08	600.00	---
(e) Other agencies.....	---	---	---	---	---	---	---	---	---	---
Total.....	13,183.28	5,404.09	3,605.72	7,837.47	19,762.55	4,118.40	16,008.43	15,220.57	9,554.13	3,660.00
1. Educational:										
(a) Lectures.....	13	28	16	138	61	241	103	170	120	27
(b) Attendance at lectures.....	1,150	1,170	509	1,957	3,006	7,173	6,020	6,144	8,080	1,861
(c) Bulletins distributed.....	382	205	1,320	1,382	5,590	50	8,041	6,040	4,812	126
(d) Newspaper articles.....	27	168	11	21	44	9	114	12	43	21
2. Sanitary inspections:										
(a) Private premises.....	4,108	3,421	1,487	109	636	167	240	7,434	1,737	217
(b) Schools, churches, stores.....	331	933	82	156	---	132	308	202	1,246	13
3. Special inspections:										
(a) Dairies.....	42	48	34	2,072	206	92	12	98	17	5
(b) Other food-product places.....	214	523	2,312	453	233	2	160	694	353	9
4. Life-extension examinations:										
(a) Acute communicable disease control:										
(i) Visits to cases, contacts, suspects	1,021	3,748	577	849	4,097	1,580	150	1,183	375	309
(ii) Cases quarantined.....	598	452	37	465	1,881	559	725	780	152	188
6. Venereal-disease control:										
(a) Suspects examined.....	---	15	63	4	34	---	---	60	7	18
(b) Prophylactic treatments.....	---	---	---	---	---	---	---	---	---	30
(c) Curative treatments.....	---	329	125	5	116	---	14	48	---	25
7. Tuberculosis control:										
(a) Number examined.....	54	---	104	26	133	---	138	547	84	---
(b) Positive.....	18	---	17	8	69	---	48	216	71	---
(c) Negative.....	36	---	87	28	64	---	90	331	13	---
(d) Placed in institutions.....	3	---	---	5	---	1	0	7	---	---
(e) Home visits.....	2,182	---	186	178	296	6	606	1,143	78	---
8. Persons treated for removal of hookworm:										
9. Schick tests.....	820	---	5	---	---	---	---	---	4	---
10. Cows tuberculin tested:										
11. Immunization:										
(a) Complete antityphoid inoculations.....	14	7	285	4	105	166	510	2,312	958	---
(b) Antismalpox vaccinations.....	93	897	71	---	244	---	1,342	2,760	---	1,061
(c) Complete diphtheria toxin-antitoxin inoculations.....	312	165	12	10	968	---	32	84	---	642

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924—Continued.

Counties (or districts)	Decatur, Ga.	De Soto Parish, La.	Dubuque, Iowa	Dunklin, Mo.	Eddy, N. Mex.	Edge- combe, N. C.	Floyd, Ga.	Franklin, Ala.	Gentry, Mo.	Glynn, Ga.
Period of work in fiscal year 1924	June 1, 1924, to June 30, 1924	June 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	May 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	Jan. 1, 1924, to June 30, 1924	July 1 to 31, Nov. 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924
Expenditures:										
(a) Rural sanitation fund (P. H. S.)	\$53.34	\$50.00	\$300.00	\$565.00	\$150.00	\$854.96	\$500.00	\$150.00	\$450.00	\$300.00
(b) State	83.33	400.98		1,130.00		990.97			900.00	
(c) County	127.40	400.99	4,906.56	3,541.28	761.66	5,444.76	7,381.19	2,595.80	2,581.07	11,320.25
(d) Municipalities		103.50	11,514.92							400.00
(e) Other agencies			2,200.00	1,800.00	200.00	142.17	2,350.00	750.00	1,275.00	
Total	274.16	955.47	18,921.48	7,036.28	1,111.66	7,541.86	10,031.19	4,628.64	5,206.07	12,000.26
1. Educational:										
(a) Lectures		8	52	215		20		37	145	80
(b) Attendance at lectures		697	3,223	10,900		697	350	2,225	4,062	4,860
(c) Bulletins distributed	200	82	8,509	3,885	1,046	135	5,265	2,060	1,123	11,662
(d) Newspaper articles	4		226	136	30	2	23	28	96	46
2. Sanitary inspections:										
(a) Private premises	98	243	1,199	76		1,996	80	4,402	13	1,085
(b) Schools, churches, stores	2	23	1,142	97		317	50	19	70	227
3. Special inspections:										
(a) Dairies		4	180	9	35	89	42	4		379
(b) Other food-product places		3	727	2	15	305		62		787
4. Life extension examinations	52	3				147		35	67	
5. Acute communicable disease control:										
(a) Visits to cases, contacts, suspects	8	5	750	87	16	118	244	425	66	3,045
(b) Cases quarantined		4	174	33		209	242	360	138	890
6. Venereal-disease control:										
(a) Suspects examined	5		99			47	190	8		435
(b) Prophylactic treatments							23			
(c) Curative treatments			439			202	914		2	461
7. Tuberculosis control:										
(a) Number examined		1	392	75		143	13	13	7	44
(b) Positive			18	3		53	3	3	4	3
(c) Negative			314	57		90	10	10	3	41
(d) Placed in institutions		1	10	7		28	2			2
(e) Home visits		3	61	46		172	44	11	6	261
8. Persons treated for removal of hookworm	7	2				4		93		96
9. Subjects			39		67				524	
10. Cows tuberculin tested			2,017			5	684			140

11. Immunization:	70	5	416	990	2,309	495	3	1,890
(a) Complete antityphoid inoculations	2	1	41	533	1,654	1	10	674
(b) Antismalpoz vaccinations			87	14	66		272	1
(c) Complete diptheria toxin-antitoxin inoculations	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
12. Antimalaria work								
13. Child hygiene:								
Prenatal—								
(a) Cases given advice		121	20	24		34		314
(b) Examinations	2	9		7		10		4
(c) Office consultations	5		2	61	67	9		27
(d) Home visits		399				39		122
Infant and preschool—								
(a) Babies and children examined	7	149	350	140		16	189	295
(b) Examinations	9	152	350	140		16	205	295
(c) Office consultations, mothers	15	8	100	5	22	37	182	196
(d) Group conferences with mothers	6	51	6	35	9	7		5
(e) Home visits	26	1,161	113	3	53	120	99	1,003
School—								
(a) Children examined		6,447	6,154	1,530	5,227	1,861	2,127	2,641
(b) Found defective		4,223	4,471	21	1,816	1,328	1,074	1,760
(c) Defects found		0,074	6,391	35	2,273	3,146	1,424	2,623
(d) Consultations, parents (office and school)	21	984	6,188	5	242	59	518	5
(e) Home visits		1,913	32	3	1,264	136	221	1,475
Nutritional classes—								
(a) Cases attending		281	14				520	
14. Laboratory examinations:								
Positive	18	710	6	96	47	286	15	196
Negative	30	3,118	23	318	230	421	247	573
Total	48	3,828	29	414	277	707	262	769
15. Results:								
(a) Sanitary privies installed—								
Septic or L. R. S.					3			18
Water-tight vault		2						
Bucket and box		12	15	2	42	9		
Pit		12	18	2	220	35	220	1
Total		12	17	2	80	229	1	18
(b) Privies restored to sanitary type		85			47	6		115
(c) Septic tanks installed		22	29		12	2		12
(d) New sewer connections		1	431	18				6
(e) New water connections		531				180		
(f) Wells improved		14				1		1
(g) Springs improved								
(h) Public milk supplies radically improved		41						26
(i) Treatments induced for correction physical defects school children								
(j) Nutritional cases improved		1,541	217	8	915	52	200	343
(k) Convictions for violation sanitary laws		287		81				15
(l) Nuisances corrected		664		285	106	21	2	119
	74		22					

1 None.

2 Considerable.

3 Little.

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924—Continued.

Counties (or districts).....	Greene, Mo.	Hancock, W. Va.	Harrison, Miss.	Harrison, W. Va.	Lauderdale, Ala.	Laurens, Ga.	Lewis and Clark, Mont.	Limestone, Ala.	Logan, W. Va.	Madison, Ala.
Period of work in fiscal year 1924.....	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	Mar. 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	Jan. 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924
Expenditures:										
(a) Rural sanitation fund (P. H. S.).....	\$204.84	\$1,293.96	\$1,200.00	\$350.00	\$1,174.93	\$300.00	\$2,400.00	\$150.00	\$608.86	\$1,899.99
(b) State.....	1,800.00	999.96	1,508.30	2,800.00	2,050.00	3,900.00	2,038.13	1,100.02	1,900.00	2,899.97
(c) County.....	10,420.00	3,907.31	14,702.06	3,658.66	4,569.73	1,500.00	2,038.13	2,446.60	8,304.10	6,469.91
(d) Municipalities.....			2,247.80	317.59	1,500.00		1,590.00	750.00	100.00	5,868.32
(e) Other agencies.....	4,200.00	999.96	524.49		3,188.50					4,543.35
Total.....	16,924.84	7,207.19	20,182.65	4,326.25	12,483.16	4,200.00	8,066.26	4,446.62	10,910.96	21,641.55
1. Educational:										
(a) Lectures.....	208	257	134	179	185	209	12	60	123	205
(b) Attendance at lectures.....	5,803	9,577	8,777	2,800	7,970	5,187	160	3,467	4,915	16,689
(c) Bulletins distributed.....	16,450	1,120	16,486	2,783	6,464	6,906	3,450	2,930	3,776	7,690
(d) Newspaper articles.....	141	232	420	5	50	197	112	6	30	342
2. Sanitary inspections:										
(a) Private premises.....	33	472	5,969	115	3,155	250	320	1,020	11,628	83,954
(b) Schools, churches, stores.....	91	62	1,134	15	176	240	215	120	143	156
3. Special inspections:										
(a) Dairies.....		1	118	16	92	70	271		53	661
(b) Other food-product places.....		68	141	5	577	186	227	72	63	1,186
4. Life extension examinations.....			27		425	82		35		226
5. Acute communicable disease control:										
(a) Visits to cases, contacts, suspects.....	1,423	89	1,240	14	1,465	285	2,452	564	1,096	841
(b) Cases quarantined.....	388	208	627	26	800	169	755	376	229	122
6. Venereal disease control:										
(a) Suspects examined.....	262	1	68	10	163	157	7	34	7	722
(b) Prophylactic treatments.....						77				
(c) Curative treatments.....	3,498		160	56	98	190			20	4,069
7. Tuberculosis control:										
(a) Number examined.....	115	1	65	5	192	59	20	22	4	63
(b) Positive.....	52	1	50	5	38	18	9	9	5	11
(c) Negative.....	63		15		154	41	11	17		42
(d) Placed in institutions.....	36	1	4		5	4	6		11	
(e) Home visits.....	372	14	79	7	117	45	150	39	103	176
8. Persons treated for removal of hookworm.....			156			346				
9. Schick tests.....			138			170				
10. Cows tuberculin tested.....			295	61	70	35	27		136	3,077

11. Immunization:	143	649	15	35	801	3,782	104	33	325	1,669
(a) Complete antityphoid inoculations.....	(1)	79	(2)	(1)	(2)	(2)	(1)	(2)	(1)	(1)
(b) Antimalpox vaccinations.....										
(c) Complete diphtheria toxin-antitoxin inoculations.....										
12 Antimalaria work.....										
13 Child hygiene:										
Prenatal:										
(a) Cases given advice.....	199		188	14	97	174	30	60	168	491
(b) Examinations.....	5		171		5	172	13	10		
(c) Office consultations.....	6		11		7	123	16	2		
(d) Home visits.....	198		180	12	132	131	77	85	259	637
Infant and preschool:										
(a) Babies and children examined.....										
(b) Examinations.....	1,168	183	1,056	132	1,074	164	220	778	1,162	2,266
(c) Office consultations, mothers.....	1,168	183	1,056	132	1,074	164	220	778	1,162	2,266
(d) Group conferences with mothers.....	1,177	39	86	1	60	91	500	47	2	218
(e) Home visits.....	2,819	18	1	16	124	45	2	2	9	106
School:										
(a) Children examined.....	3,482	4,204	938	1,006	5,857	4,584	2,278	3,089	10,277	7,431
(b) Found defective.....	2,609	3,344	639	830	3,468	3,333	1,125	2,068	5,108	5,893
(c) Defects found.....	4,732	5,214	1,090	2,011	6,086	3,890	3,513	3,513	6,528	13,783
(d) Consultations, parents (office and school).....	628	136	1,095	47	77	190	279	140	191	197
(e) Home visits.....	1,665	314	1,305	40	1,103	191	461	367		
Nutrition classes:										
(a) Cases attending.....	30		134			780	400	20		50
14. Laboratory examinations:										
Positive.....	179		276	2	422	418	240	153	65	891
Negative.....	401	1	310	15	1,519	752	605	565	56	2,786
Total.....	580	1	586	17	1,941	1,170	845	718	121	3,677
15. Results:										
(a) Sanitary privies installed—										
Septic or L. R. S.....	1		4				34		2	100
Water-tight vault.....	2							4		275
Bucket and box.....	2	16	44	7	62	200		64	124	351
Pit.....										
Total.....	5	16	48	7	176	204	34	68	126	735
(b) Privies restored to sanitary type.....										
(c) Septic tanks installed.....	5		841	19	78	130	11	1	22	1,157
(d) New sewer connections.....	2	2	80	1	22	79	2	16	25	708
(e) New water connections.....		10	63	1	170	111	30	10	51	172
(f) Wells improved.....	1		1	6	20	4	29	3	146	172
(g) Springs improved.....					2	17	2	2	17	37
(h) Public milk supplies radically improved.....			65	8		27	81			
(i) Treatments induced for correction physical defects school children.....										
(j) Nutritional cases improved.....	1,067	2,937	116	225	369	804	43	265	149	1,873
(k) Convictions for violation sanitary laws.....	609		79	33	3	460	3	213	4	98
(l) Nuisances corrected.....	26	79	6	17	434	157	215	12	662	2,737

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924—Continued.

Counties (or districts)	Marion, W. Va.	Mason, Ky.	McKin- ley, N. Mex.	Miller, Ga.	Nanse- mond, Va.	New Madrid, Mo.	Noda- way, Mo.	Ottawa, Okla.	Pettis, Mo.	Polk, Mo.
Period of work in fiscal year 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	Mar. 1, 1924, to June 30, 1924	June 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924
Expenditures:										
(a) Rural sanitation fund (P. H. S.)	\$900.00	\$1,470.00	\$120.00	\$83.33	\$212.50	\$400.00	\$600.00	\$300.00	\$600.00	\$575.00
(b) State	1,897.05	1,897.05	833.32	83.34	2,317.58	1,800.00	1,800.00	1,000.00	900.00	1,800.00
(c) County	5,443.68	3,774.11	998.25	154.16	4,635.21	3,600.00	5,981.40	2,820.00	2,291.77	3,520.00
(d) Municipalities	800.00	800.00			2,317.58					
(e) Other agencies	1,267.06	1,267.06	600.00		2,317.64	1,200.00	1,875.00	4,580.04	6,698.51	1,200.00
Total	6,343.68	9,198.22	2,552.57	320.83	11,900.51	7,200.00	10,256.40	8,700.04	10,491.28	7,085.00
1. Educational:										
(a) Lectures	38	362	69		49	129	104	120	141	90
(b) Attendance at lectures	2,769	9,370	2,540		2,907	6,840	5,981	2,080	3,366	3,870
(c) Bulletins distributed	13,442	2,426	3,424	150	4,543	3,350	13,334	930	6,166	3,620
(d) Newspaper articles	47	207	6	1	172	200	142	69	308	331
2. Sanitary inspections:										
(a) Private premises	518	432	47	152	589	8	445	161	13	38
(b) Schools, churches, stores	97	484	10	2	2,407	60	189	99	88	96
3. Special inspections:										
(a) Dairies	3	183	2		32			60	3	1
(b) Other food-product places	5	1,363	9		263			53	2	62
4. Life extension examinations	31					131			37	261
5. Acute communicable disease control:										
(a) Visits to cases, contacts, suspects	250	192	510	16	324	336	724	139	214	713
(b) Cases quarantined	282	72	191		143	17	720	89	152	415
6. Venereal disease control:										
(a) Suspects examined	38	125	1		8	77		162	203	10
(b) Prophylactic treatments						6		24	4	
(c) Curative treatments								123	1,439	6
7. Tuberculosis control:										
(a) Number examined	43	83	1		274	36	3	56	24	74
(b) Positive	23	19	1		83	33	3	48	14	42
(c) Negative	20	64			191	3		8	10	32
(d) Placed in institutions	22	2	1		20	11		4	7	7
(e) Home visits	8	396			266	16		49	180	63
8. Persons treated for removal of hookworm										
9. Schick tests										
10. Cows tuberculin tested		1,650	13		104	2			13	183
					182		2,900	257		

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924—Continued.

Counties (or districts)	Preston, W. Va.	St. Francis, Mo.	Sampson, N. C.	San Joaquin District, Calif.	Santa Fe, N. Mex.	Seminole, Ga.	Surry, N. C.	Tallapoosa, Ala.	Taylor, W. Va.	Union, N. Mex.
Period of work in fiscal year 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	June 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924
Expenditures:										
(a) Rural sanitation fund (P. H. S.)	\$962.50	\$600.00	\$300.00	\$300.00	\$900.00	\$83.33	\$300.00	\$1,997.36	\$458.29	\$782.70
(b) State	3,337.73	3,000.00	2,494.96	1,800.00		83.33	1,234.00	3,022.56	1,771.32	
(c) County	5,786.68	5,130.19	3,000.00	66,315.14	4,298.10	154.16	6,505.59	5,997.12	5,083.49	6,570.76
(d) Municipalities								1,980.07		
(e) Other agencies	1,497.02	9,047.84		1,800.00				1,647.02	1,725.00	480.00
Total	11,583.93	17,778.03	5,795.96	73,215.14	5,198.10	320.82	7,039.59	13,744.13	9,088.10	7,803.46
1. Educational:										
(a) Lectures	304	154	46	280	39	6		60	251	162
(b) Attendance at lectures	9,594	10,877	3,374	13,060	1,823	555		2,288	2,840	3,798
(c) Bulletins distributed	4,695	8,734	2,042	45,543	711	150		8,900	5,221	5,620
(d) Newspaper articles	34	98	11	451	73			39	75	82
2. Sanitary inspections:										
(a) Private premises	1,496	1,512		2,459	163	264	5	1,345	70	363
(b) Schools, churches, stores	182	180	31	585	65	15	1	146	63	65
3. Special inspections:										
(a) Dairies	6	11		3,903	24		7	17	19	2
(b) Other food-product places	97	87	16	6,509	21		5	353	53	1
4. Life extension examinations	193	8	5	18,784			20	94		3
5. Acute communicable disease control:										
(a) Visits to cases, contacts, suspects	427	1,894	341	9,035	259		98	301	586	1,091
(b) Cases quarantined	279	771	1,929	431	259		507	38	370	699
6. Venereal disease control:										
(a) Suspects examined	26	76	189	916	21			191	48	14
(b) Prophylactic treatments		2		1	1			5		
(c) Curative treatments	16	582	781	11,366	2			738	74	43
7. Tuberculosis control:										
(a) Number examined	18	65	81	80				122	65	6
(b) Positive	6	17	8	26				24	18	2
(c) Negative	12	48	73	54				98	47	4
(d) Placed in institutions		1	3	20				6	4	
(e) Home visits	10	90	4	105			1	67	12	11
8. Persons treated for removal of hookworm			90					3		
9. Schick tests				684						
10. Cows tuberculin tested		6			13		1,300	735	189	

Compilation of data, by counties, on cooperative demonstration work in rural sanitation in fiscal year 1924—Continued.

Counties (or districts)	Valencia, N. Mex.	Walker, Ala.	Walker, Ga.	Wash- ington, Miss.	Wash- ington Parish, La.	Wise, Va.	16 Virginia counties	Total
Period of work in fiscal year 1924	Jan. 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	Jan. 1, 1924, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	July 1, 1923, to June 30, 1924	
Expenditures:								
(a) Rural sanitation fund (P. H. S.)	\$150.00	\$300.00	\$1,500.00	\$1,200.00	\$1,860.00	\$300.00	\$4,575.00	\$43,584.82
(b) State	640.00	1,331.66	3,823.88	3,098.96	2,000.00		11,135.50	68,976.85
(c) County	3,448.12	4,948.92	4,412.55	3,098.96	3,211.61	12,793.07	15,963.07	94,430.27
(d) Municipalities				2,550.00	240.00			53,777.97
(e) Other agencies		1,200.00	240.00		240.00			75,022.12
Total	4,198.12	8,041.58	6,152.55	8,179.92	7,811.61	13,083.07	31,723.90	583,791.73
1. Educational:								
(a) Lectures	96	52	140	33	105	200	590	6,759
(b) Attendance at lectures	4,699	3,823	7,181	818	10,046	3,479	28,798	276,520
(c) Bulletins distributed	595	2,237	423	1,155	7,466	1,690	28,685	306,736
(d) Newspaper articles	2	16	16	54	25	106	232	5,452
2. Sanitary inspections:								
(a) Private premises	68	1,598	4,389	14,243	762	2,176	20,911	140,184
(b) Schools, churches, stores	55	153	633	1,142	153	245	740	15,337
3. Special inspections:								
(a) Dairies		18	36	22	188	75		9,232
(b) Other food-product places		592	232	12	232	80	1,902	21,991
4. Life extension examinations		29	283	15	14			21,103
5. Acute communicable disease control:								
(a) Visits to cases, contacts, suspects		428	91	245	242	50		47,202
(b) Cases quarantined	82	46	53	44	124	57	729	26,103
6. Venereal-disease control:								
(a) Suspects examined	7	45	5	637		514		5,738
(b) Prophylactic treatments		4		13				194
(c) Curative treatments		33	4	186		3,440		30,223
7. Tuberculosis control:								
(a) Number examined		65	32		2	158	155	3,703
(b) Positive		23	17			36		1,186
(c) Negative		42	15		2	122		2,363
(d) Placed in institutions		2				14		281
(e) Home visits		61	12	21	3	142		7,903
8. Persons treated for removal of hookworm		156		2	228	87		1,320
9. Schick tests			164			416		3,600
10. Cows tuberculin tested		250	19	200	1,364	57	542	21,178

11. Immunization:	361	2,305	1,404	43	1,169	92	849	21,836
(a) Complete antityphoid inoculations.....	40	684	323	1,567	750	223	732	26,833
(b) Antimalarial vaccinations.....	442	(c)	(c)	5	124	51	34	12,933
(c) Complete diphtheria toxin-antitoxin inoculations.....								
12. Antimalaria work.....								
13. Child hygiene:								
Prenatal—								
(a) Cases given advice.....	5	114		171	20	195		4,533
(b) Examinations.....	1	0		57		15		1,435
(c) Office consultations.....	5	7		128	3			1,640
(d) Home visits.....	17	97		231	26	436		5,906
Infant and preschool—								
(a) Babies and children examined.....	68	30	5	208	143	404		21,221
(b) Examinations.....	68	30	5	208	143	404		26,048
(c) Office consultations, mothers.....	8	18	4	120	63	17		7,266
(d) Group conferences with mothers.....	5	4		41	32	50		1,238
(e) Home visits.....	43	70		186	280	1,412		30,631
School—								
(a) Children examined.....	872	4,276	2,946	2,987	1,133	5,567		192,966
(b) Found defective.....	319	3,455	1,930	339	939	3,924		109,090
(c) Defects found.....	403	6,360	2,604	1,632	1,894	6,427		172,324
(d) Consultations, parents (office and school).....	62	8		209	106	44		11,603
(e) Home visits.....	29	8		247	451	870		32,944
Nutritional classes— (a) Cases attending.....				59	51			4,181
14. Laboratory examinations:								
Positive.....	15	103	46	339	238	489		9,024
Negative.....	46	163	54	675	170	1,403		28,517
Total.....	61	266	100	1,014	408	1,892	1,574	36,115
15. Results:								
(a) Sanitary privies installed—								
Septic or L. R. 8.....	1	14	18			186	76	696
Water-tight vault.....			2				16	94
Bucket and box.....		72	3	78	8	49	404	1,591
Pit.....	2	437	238	10	203	201	2,983	7,416
Total.....	3	523	261	88	211	436	3,429	9,709
(b) Privies restored to sanitary type.....								
(c) Septic tanks installed.....		43	89		6	79	1,180	7,326
(d) New sewer connections.....		1	28		9	118	1,011	1,011
(e) New water connections.....		47	211	29	76	161	486	4,869
(f) Wells improved.....		62	211	38	79	172	195	3,657
(g) Springs improved.....	1	33	4		7	20	89	1,124
(h) Public milk supplies radically improved.....		9	7				81	1,171
(i) Treatments induced for correction of physical defects in school children.....			9		47	15		432
(j) Nutritional cases improved.....	25	155	224	929	342	495	43	37,364
(k) Convictions for violation of sanitary laws.....	30	30		12				4,632
(l) Nuisances corrected.....	46	124	287	339	10	39	482	12,152

The Cape Cod Project.

The cooperative rural health work begun in May, 1921, under the direction of a whole-time district health officer, in 10 of the 14 towns (townships) in Cape Cod, Mass.,⁶ has been continued satisfactorily. The funds provided by appropriation by the authorities of the 10 towns participating in the project and expended for the support of the work in the fiscal year 1924 aggregated \$5,840, as against \$5,100 provided from town sources in the first year of the activity. The survival of this cooperative project under the (New England) town system of government, wherein each town is an independent unit, is strong evidence of the practicability of the plan under widely varying conditions.

Special Demonstration Work in Virginia Counties.

The plan of special demonstration work in rural sanitation carried out in Virginia in 11 counties in the fiscal year 1920, in 10 counties in the fiscal year 1921, in 14 counties in the fiscal year 1922, and in 12 counties in the fiscal year 1923, was carried out in 16 counties⁷ in that State in the fiscal year 1924. This plan, which has been described in previous reports,⁸ continues to prove highly successful. After five years' trial it obviously meets remarkably well situations in rural counties in which effective health work, if begun at all, must be started on a low-cost basis, and in which out-door sanitary measures are especially needed. The total cost of the services of the 16 sanitary officers in Virginia in the fiscal year 1924 was \$31,723.90.

As evidence of the interest in sanitation aroused in the communities by the activities of the sanitary officers, is an investment conservatively estimated by the officer having immediate supervision of the work at \$168,488.64, made by property owners during the fiscal year 1924 for tangible sanitary improvements, including installation of sanitary privies and septic tanks, improved construction to protect wells and springs from dangerous pollution, drainage for mosquito control, etc. The local popularity of the services of the sanitary officers is indicated by the votes of the members of the county boards of supervisors in the fiscal year 1924 on the question of appropriating for continuance of the work in their respective counties. Of an aggregate of 25 supervisors in five counties in which the work has been conducted more than four years, 23 voted for, 1 did not vote, and only 1 voted against the appropriation. Of an aggregate of 18 supervisors in four counties in which the work has been conducted for more than

⁶ Reprint No. 699, from Public Health Reports of Oct. 7, 1921, pp. 11, 12; Reprint No. 788, from Public Health Reports of Sept. 29, 1922, p. 14; and Reprint No. 887, from Public Health Reports of Dec. 14, 1923, p. 16.

⁷ Caroline, Carroll, Charlotte, Chesterfield, Grayson, Greene, Greensville, Henry, Madison, Mathews, Prince Edward, Pulaski, Roanoke, Smyth, Spotsylvania, and Stafford.

⁸ Reprint No. 615, from Public Health Reports of Oct. 1, 1920, pp. 10, 12; Reprint No. 699, from Public Health Reports of Oct. 7, 1921, pp. 12, 14; Reprint No. 788, from Public Health Reports of Sept. 29, 1922, pp. 14-17; and Reprint No. 887, from Public Health Reports of Dec. 14, 1923, pp. 16-18.

two but less than three years, 16 voted for and 2 against the appropriation.

A detailed account of the activities and the results in any of the projects would indicate the high value of this low-cost plan of work. The extent of the activities and the results in the different counties vary in almost direct proportion to the duration of the project.

The following summary report, prepared by Scientific Assistant George S. Bote, on the work in one of the first counties to secure the services of a sanitary officer and where the work has been in progress since June, 1919, is illustrative:

SUMMARY REPORT ON SERVICES OF SANITARY OFFICER IN CHESTERFIELD COUNTY, VA.

Only a few of the outstanding features will be mentioned in this summary. Reports have been sent to the chairman of the board of supervisors each month showing in detail the activities of the sanitary officer. The cost of the services of the sanitary officer has been about \$2,500 a year. Of this amount, the county board of supervisors furnishes one-half, the State board of health one-fourth, and the United States Public Health Service one-fourth.

HOMES VISITED.

The sanitary officer has visited 3,566 homes in all parts of the county. During these visits he has interviewed some member of the family of the occupant and explained the health protection to be gained by having a sanitary privy, a safe water supply, and screens on the doors and windows. He has made 2,820 return trips for various purposes, many of which were to assist with the actual construction work. Appropriate bulletins and literature bearing on health matters were distributed at the time of these visits.

IMPROVEMENTS MADE.

To date (June 30, 1924) 1,671 homes have been provided with a sanitary system of excreta disposal, ranging from inside fixtures, running water, and septic tank, to the pit-type closet. One hundred and eighty places that had no privy of any kind before the work started have been sanitized. Fifty-one new wells have been put down and 58 old wells have been protected against pollution. Hundreds of homes have been screened and greater care is being manifested in the exclusion of flies from food in the dining rooms.

EXAMINATION FOR WORMS.

On making his rounds, the sanitary officer found evidence that the children of Bethany Home were infested with worms. He arranged with the superintendent to secure feces specimens and had them examined at the State board of health laboratory. It was found that of the 53 specimens, 58.5 per cent were infested as follows:

- 4 children had roundworm and hookworm;
- 2 children had hookworm;
- 12 children had roundworm;
- 13 children had whipworm; and
- 22 children were negative.

Treatments for those infested were furnished by the State board of health and were administered by Doctor Shelton, the Home physician. The sanitary officer also assisted in building a septic privy at the Home in place of the old open toilet in use. Since then running water and inside fixtures connecting with a septic tank have been installed. Feces specimens from 252 children in various parts of the county have been collected and examined, and treatment was supplied free of cost where needed. The rate of infestation was much lower in the latter group.

SMALLPOX VACCINATIONS.

Through arrangements made by the sanitary officer, 802 school children living in remote sections of the county have been vaccinated against smallpox.

MAD DOGS.

Near Drewerys Bluff a dog went mad and bit four people, nine dogs, and two pigs before it was killed. The sanitary officer followed the trail of the mad dog, located the dogs bitten, and had them treated or killed before rabies had time to develop. In Colonial Heights the sanitary officer killed three rabid dogs and one rabid cat. All of the 75 dogs which had been bitten by these rabid animals were killed, or tied up until the incubation period had expired, or were given antirabic treatment. In all cases the sanitary officer wired for the antirabic treatment for the people and this was given by the local physicians. As the board of supervisors is liable up to \$200 for treatment of persons bitten by mad dogs, it is quite evident that the prompt action of the sanitary officer in suppressing a threatened outbreak of rabies resulted in a considerable saving—probably more on this one item alone than he cost the county.

EDUCATIONAL.

The sanitary officer secured the State board of health motion-picture outfit for use in Chesterfield County. Accordingly, he arranged for and held 24 shows in all sections of the county. The pictures dealt with health subjects and were seen by 4,631 persons, who went away with a better understanding of the cause and prevention of disease. These exhibitions resulted in many material changes being made at the homes.

Two hundred and thirty-seven health talks have been given to groups gathered in schools, churches, and at picnics. In March, 1924, the sanitary officer gave a concise, well-outlined course on hygiene and sanitation to the older pupils in 10 schools in the county. Seven hundred pupils received this instruction, and the examination papers show that the pupils have the right conception as to the cause and prevention of our most common diseases.

QUARANTINE.

Upon report from the attending physicians, 31 homes have been quarantined by the sanitary officer to prevent the spread of contagious diseases. He was given this authority about 12 months ago, and this has saved the usual quarantine fee paid the county health officer. Only diseases reported by the doctors are quarantined.

MOSQUITO CONTROL.

Several bad mosquito-breeding areas have been drained by the digging of 4,960 feet of drainage ditches. In other areas, where drainage would have been expensive, *Gambusia* top minnows have been used to control mosquito breeding. These small fish, which eat the larvae and prevent the wiggletail from developing into the mosquito, furnish an economical, and, in many instances, effective method of mosquito control in this county.

CLEAN-UP CAMPAIGNS.

Clean-up campaigns have been held in Colonial Heights, Ettrick, and Chester. These campaigns were conducted through the civic leagues of these places. At Ettrick 138 loads of trash and filth were hauled away, and approximately 90 per cent of the toilets were sanitary in the village as a result. At Colonial Heights this is an annual affair and is demanded by the citizens.

SCHOOL SANITATION.

All schools in the county were equipped with sanitary toilets before the end of the second year of the work. Chesterfield was the first county in Virginia to achieve this distinction. Since 1921 these facilities have been gone over each year and have been maintained in good sanitary condition. This work was done under the supervision of the sanitary officer, and cost about \$3,000; without his services it would have cost over \$5,000. Comparison of contract figures and the actual cost bear out this statement of saving.

TYPHOID VACCINATIONS.

Through the efforts of the sanitary officer, typhoid vaccination clinics were held at Bon Air, Midlothian, and Mayotown on account of the prevalence of typhoid fever in sections near these places. These clinics were free, and all the people in the community were urged to avail themselves of this protection. Special effort was made to get those in whose homes typhoid had occurred in recent years to take the treatment. Three hundred and eleven completed the three treatments and this has been adjudged a big factor in reducing the cases of typhoid in these particular areas.

RESULTS.

A comparison of the records for the five-year period before the sanitation program was inaugurated, with the five-year period during which the work has been in progress, shows remarkable results. These records are compiled from reports made to the State board of health by the physicians practicing in Chesterfield County.

Five-year period.	Typhoid fever.		Deaths from diarrhea and dysentery, under 2 years.	Deaths from tuberculosis of lungs.	Total deaths from all causes
	Deaths.	Cases.			
Before sanitary officer began—1914-1918.....	18	115	83	190	1,510
After sanitary officer began—1919-1923.....	8	30	43	117	1,155
Difference.....	10	85	40	73	355
Per cent reduction.....	55.6	74.0	48.2	38.4	23.5

A striking result of this work is that 40 fewer deaths occurred in infants under 2 years of age from diarrhea and dysentery, being 83 for one five-year period as against 43 for the time the health work has been going on.

There is also a definite saving of 10 lives from typhoid fever, and 85 people have been spared the expense, suffering, and mental anguish resultant from an attack of this disease.

Taking the deaths from all causes for the same five-year periods, we find that 355 fewer people, or an average of 71 per year, died during the five-year period after the inauguration of the sanitation program. The total cost to the county to conserve these 71 people each year was slightly more than \$21 per life saved.

Three-County Project in Georgia.

Among the 153 counties in the State of Georgia, some are small in area and population and have not the economic resources to bear readily the expense for a complete health department, including a whole-time health officer with assistants for each county. How to furnish such small political units with economical and effective whole-time health service has been a difficult and an important problem. Surg. C. E. Waller, who is detailed to cooperate with the State board of health in the development and supervision of county health work in Georgia, has undertaken a plan which promises to demonstrate a practical solution of the problem by developing what is designated as a "three-county" project. It was agreed that \$12,000 would be needed for the support of such project for the first period of 12 months and that of this amount the State Board of Health would furnish \$3,000, the United States Public Health Service \$3,000, and the three counties together would be required to furnish \$6,000. Although the commissioners of a number of the counties expressed a desire for their respective counties to be included in the group, considerable effort was required to find three counties adjacent to each other whose commissioners desired the service and were willing to make the necessary appropriation to obtain it. Decatur, Seminole, and Miller Counties were finally selected for the group, and the work was begun on June 1, 1924. One whole-time health officer, who is a physician with training in health work, was duly appointed by the county authorities and serves as health officer of each of the three counties. In each county an assistant health officer is on duty who is a layman with practical training in sanitary work. Later on, one or more health nurses may be added to the working force in each county in the group. There appears good reason to expect this plan to prove satisfactory.

General Progress in Rural Health Work.

Progress in the development of whole-time rural (county) health service in the United States was continued in the fiscal year 1924. According to data^a collected by the Rural Sanitation Office from the State health departments, the number of counties, or equivalent divisions, provided with local health service, reaching all rural sections thereof, under the direction of whole-time county or district health officers, was 250 at the beginning of the calendar year 1924, as against 230 at the beginning of the calendar year 1923, 202 at the beginning of the calendar year 1922, 161 at the beginning of the calendar year 1921, and 109 at the beginning of the calendar year 1920. The gain of 141 within this four-year period, though not as

^a Reprint No. 921, from Public Health Reports of May 16, 1924.

large as it might have been had means been provided for a due and reasonably adequate degree of cooperation from the Federal and State official health agencies, is somewhat encouraging.

The idea of the county unit in the administration of whole-time health service is comparatively new. The first whole-time county health department approaching adequacy, under the direction of a whole-time county health officer, in the United States was established in Yakima County, Wash., in 1911.¹⁰ At the annual conference of State health officers with the United States Public Health Service in June, 1924, almost all of the State health officers, in making their reports, indicated that the chief need for satisfactory health service in their respective States and one of the main objectives of their respective departments is the development of whole-time county health units. An apparent consensus of opinion at this conference was that the way in which the United States Public Health Service could be of greatest assistance in activities for the prevention of disease and the promotion of national health would be through adequate cooperation with the State health departments in the development and maintenance of whole-time county health service. Thus the plan of cooperative rural health work appears now to be well established in the minds of our public health administrators and to be well past the experimental stage. The provision of means to enable the Public Health Service to expand to a reasonable degree its program of cooperation in rural health work would greatly enhance the progress in whole-time rural health service. Besides the sanitary and economic benefits to the communities (mainly farming) resulting from such service, the cooperative plan to develop and maintain whole-time county health departments furnishes a most effective and least costly means of preventing the spread of human infections between the States.

Results.

The cooperative projects in the fiscal year ended June 30, 1924, yielded results exceeding in value many fold the cost of the work. Among the activities and results presented in the tabular statement

¹⁰ The claim is made by some that to Jefferson County, Ky., belongs the credit of having had the first whole-time county health officer; but this claim appears to be based entirely on a statement in a report dated Nov. 30, 1909, from the Jefferson County health officer to the Kentucky State Board of Health to the effect that in the period Nov. 30, 1908 to Nov. 30, 1909, "the multitudinous duties have taken all of the time of the health officer." According to all the evidence available, this health officer was not engaged under contract to devote all of his working time to his public office, and therefore he was not technically a whole-time health officer. In a strong argument and appeal for the appointment of whole-time county health officers, on pages 19 and 20 of the Report of the State Board of Health of Kentucky for the Biennium 1908 to 1909, and on page 16 of the Biennial Report of the Kentucky State Board of Health, 1910 to 1911, no reference is made to the existence of whole-time health officer service in Jefferson County.

The North Carolina State Board of Health reports that a whole-time county health officer began duty in Guilford County on July 1, 1911, which was the date upon which the whole-time county health department of Yakima County, Wash., began work as such. The health officer of Guilford County had no assistants, and therefore it can not be properly designated as a whole-time county health department.

(pp. 2610 to 2621), to which especial consideration may be given, are the following:

1. Public lectures presenting the principles and details of sanitation to over 276,000 persons.

2. Over 155,500 sanitary inspections of premises, with explanation of findings to occupants or owners of the properties.

3. Physical examination of over 192,500 school children, of whom over 109,600 were found to have incapacitating physical defects, with notification of parents or guardians of defects found.

4. Thirty-seven thousand three hundred and sixty-four recorded treatments effecting correction of incapacitating physical defects among school children, brought about by written notification to parents or guardians, follow-up visits to homes of the children, making available proper clinical facilities, and other activities of the county or district health departments.

5. Treatments to correct iodine deficiency administered to 9,514 persons in endemic goiter districts.

6. Forty-seven thousand two hundred and two visits to homes of cases of communicable disease to advise and show the afflicted households how to prevent spread of the infections.

7. Five thousand nine hundred and eight visits by health nurses to prenatal cases to advise with and assist expectant mothers in carrying out hygienic and physiological measures making for healthy mothers and healthy babies.

8. Twenty-one thousand two hundred and thirty-one infants and children of preschool age examined and over 30,000 home visits by health nurses or health officers to demonstrate hygienic measures for the promotion of the health and the protection of the lives of infants.

9. Thirty-one thousand eight hundred and thirty-six persons inoculated for protection against typhoid fever.

10. Twenty-six thousand eight hundred and three persons vaccinated against smallpox.

11. Twelve thousand nine hundred and thirty-three children inoculated with toxin-antitoxin mixture for immunization against diphtheria.

12. Twenty-one thousand one hundred and seventy-eight cows tuberculin tested, with elimination of reactors from herds, to prevent communication of bovine tuberculosis to persons through the medium of milk.

13. One thousand three hundred and twenty persons treated effectively for relief from hookworm disease and for the prevention of the spread of the infection.

14. Marked reduction in the spread of malaria in hundreds of localities, with an aggregate population of several hundred thousand.

15. Thirty thousand two hundred and twenty-three treatments to rid persons of venereal disease infection and prevent the spread of the infection.

16. Special examination of 3,703 persons for tuberculosis, of whom 1,185 were found with an active tubercular process, and were advised to place themselves in the care of their private physicians and to carry out hygienic measures. Two hundred and eighty-one of the positive cases were sent to institutions maintained especially for the treatment of tuberculosis.

17. Twenty thousand one hundred and three cases of dangerous communicable diseases quarantined to prevent the spread of infection in the local community, the State, and throughout the country.

18. The installation of 9,709 sanitary privies and 1,011 septic tanks at dwellings where previously there had been either grossly insanitary privies or no toilets of any sort.

19. Seven thousand three hundred and twenty-six privies repaired so as again to be of sanitary type.

20. Four thousand eight hundred and sixty-nine homes connected for the first time with sanitary sewers.

21. Four thousand nine hundred and fifty-two homes provided with safe water supplies in place of contaminated water supplies.

22. Radical improvement of 432 public milk supplies, the milk from which was being distributed to a considerable extent through the channels of interstate commerce, to prevent the spread, through milk and milk products, of such infections as typhoid fever, scarlet fever, diphtheria, tuberculosis, septic sore throat, and infant diarrhea.

23. Twenty-one thousand one hundred and three citizens over 40 years of age examined and advised about measures to conserve their vital capital.

Such results indicate that the plan of the work is both comprehensive and effective. They mean prevention of premature human death, prevention of human illness, promotion of human health, conservation of economic resources. They stand in importance to our national welfare second to no other results obtainable from equivalent investment of public funds.

OUTBREAK OF SCARLET FEVER CAUSED BY MILK-BORNE INFECTION.

By ARTHUR JORDAN, Field Agent, United States Public Health Service, Health Officer Lewis and Clark County, Montana.

On April 29, 1924, four cases of scarlet fever were reported to the health office of Lewis and Clark County, Mont. The cases were in persons residing in widely separated parts of the city of Helena. Three were in boys, aged 6, 6, and 8, respectively, and one case was

in a girl aged 18 years. Each of the boys attended a different public school. The girl did not attend school. In view of the general circumstances it seemed improbable that the infection in these cases had been spread through personal contact.

On investigation of the cases it was ascertained that all four were in households obtaining milk from the same dairyman. This milk supply was the only common factor found which could be involved in the spread of scarlet fever infection. Three samples of the suspected milk supply were obtained, of which one was sent to the laboratory of the State Board of Health, and two were sent to the laboratory of the State Livestock Sanitary Board, for bacteriological examination. The reports were that each of the three samples contained a large number of a *Streptococcus hemolyticus*. Organisms apparently identical with this organism were found later in cultures made from the throats of a number of the cases.

Upon visiting the dairy and examining the personnel then in contact with the milk, no case of scarlet fever or sore throat was found; but information was obtained from a recent employee that one of the milkers had had a moderately severe sore throat beginning about a week or 10 days before the outbreak and persisting for several days.

Distribution of the implicated milk supply was stopped at once. Instructions were given for sterilization of all equipment and thorough cleanliness in the handling of the milk. In samples taken after these measures were put into operation no streptococci were found on bacteriological examination.

The daily distribution of milk from this dairy had been about 50 gallons (including milk furnished Intermountain College). The supply was not pasteurized. The milk was delivered to about 48 households in which it was consumed, it is estimated, by about 160 persons.

On the morning of April 30, one of the practicing physicians of Helena inquired by telephone at the health office whether there were any cases of septic sore throat in the city. He was informed that none had been reported, but that four cases of scarlet fever had been reported within the previous 24 hours. About two hours later he reported 16 cases of scarlet fever among students in the Mills Hall Dormitory of the Intermountain College in Helena.

The health officer immediately visited the college and ascertained (1) that the cases among the college students had developed within 24 hours after the four cases previously reported in Helena, and (2) that the milk supply of the college was obtained from the same source (dairy X) as that which had been used by the families in which the four cases first reported had occurred.

About 200 students attend Intermountain College. Many of them do not take their meals at the college and none of these, except

three who boarded at homes obtaining milk from dairy X, developed scarlet fever. Among 80 students taking meals at the college and more or less exposed to infection by means of the milk supplied from dairy X, 17 cases developed. These students did not all drink milk. In addition to the 17 cases in the college, but including the 4 cases reported in Helena on April 29, 21 cases definitely attributed to infection in the milk supplied from dairy X were reported in the city.

The dates of onset of the cases attributed to the milk-borne infection are given in the table below.

Dates of onset of the cases attributed to the milk-borne infection.

Date of onset.	Number of cases.		
	College.	City.	Total.
Apr. 29, 1924.....		4	4
Apr. 30, 1924.....	16	12	28
May 1, 1924.....		6	6
Total.....	16	22	38

Besides the measures taken at once to prevent the further spread of the infection through the milk supplied by dairy X, measures were taken as promptly as possible to prevent spread of infection through personal contact. The cooperation of the practicing physicians in reporting cases promptly and assisting in the quarantine measures was exceedingly helpful and is here acknowledged with deep gratification.

Through the cooperation of the college authorities and the attending physician, precautionary measures were carried out at Intermountain College with remarkable success. Only one secondary case developed there, and that case was in the nurse on duty in the isolation ward attending the 17 original cases among the students.

Outside the college 16 cases developed which were attributed to personal-contact infection. The table below gives the dates of onset of the cases attributed to personal contact:

Dates of onset of the cases attributed to personal contact.

Date of onset.	Number of cases.		
	College.	City.	Total.
May 3, 1924.....	1	1	2
May 4, 1924.....	0	5	5
May 5, 1924.....	0	4	4
May 6, 1924.....	0	4	4
May 7, 1924.....	0	1	1
May 8, 1924.....	0	1	1
Total.....	1	16	17

No case of scarlet fever had been reported in Helena during the 60-day period prior to the beginning of the outbreak on April 29. The last previous case had been reported January 19, 1924.

That only 17 contact cases occurred from exposure to the potential foci of infection in the 38 cases caused by the milk-borne infection is exceedingly gratifying, and particularly so in view of the fact that of the total of 55 cases occurring in the outbreak 14 were without skin rash, and therefore could not be diagnosed readily. Six typical cases with skin eruption developed among persons intimately associated with cases in which the skin rash did not appear and which were diagnosed as septic sore throat.

In the city, more contact cases occurred among adults than among children. This is attributed to the fact that, through the hearty cooperation of the teachers in the public and parochial schools of the city, each morning any child who showed any signs of illness was isolated at the school building, the health officer was called at once, an immediate examination was made, and if any suspicious symptoms were present the child was sent home and isolated until it was definitely determined that the case was not scarlet fever. A list of all pupils absent each morning was furnished the health officer. These pupils were visited, and if they were found suspicious for scarlet fever the other children were kept at home until the period of incubation (one week, to be safe) had elapsed. All suspected cases were isolated, as far as was practicable, from other members of the family. This action, with the prompt reporting of diagnosed or suspected cases by the practicing physicians, had a very material effect in limiting the number of contact cases. The investigation of pupils absent from school has a tendency to induce parents to report promptly mild cases which they would not ordinarily report, for they know that within a short time the health officer will call at the home, and with very few exceptions they dislike to have the public know that they have had a contagious disease in the home and did not report it. It also has the effect of having them call their physician earlier than they would ordinarily. The health department invariably insists that householders call their family physician to make the diagnosis of contagious disease, but suspected cases are promptly quarantined and their residences are placarded until a definite diagnosis is made.

None of the 55 cases occurring in the outbreak terminated fatally. Four had acute nephritis and two had rheumatism as complications. No middle-ear complication was reported.

In making the investigation promptly to determine the source of the infection and in carrying out immediately measures for the control of this outbreak, with the cooperation of the college and public

school officials, the practicing physicians, and the householders generally, the advantages of a whole-time local health service over a part-time health service in such a situation were manifest.

In Lewis and Clark County there is a whole-time county-city health department, under the direction of a whole-time county health officer. Through cooperative arrangements between the United States Public Health Service and the officials of Lewis and Clark County and the city of Helena, this department was established in December, 1921, and has been maintained since that time. The members of the department are engaged to devote all of their working time to the health work. At the beginning of the outbreak some worked over 20 hours a day. A part-time health service could not have been expected to do the amount of work which was necessary to make the control measures promptly and vigorously effective. A part-time health officer engaged in the practice of medicine would probably have had his private practice so increased in the presence of such an outbreak that he would have been unable to devote even the usual amount of his time to the duties of his public office. If the measures to control this outbreak had not been prompt and vigorous, the infection certainly would have spread much more extensively, locally as well as to other parts of the State, and possibly to other States. In the control of this outbreak it is shown that State and Federal health agencies may perform a most important function by cooperating in the establishment and maintenance of reasonably adequate, whole-time local health service.

During the past two years the woman's department of the Commercial Club of Helena has financed a milk fund for underweight children in the public and parochial schools of the city. Last fall the health department furnished them a list of dairies from which they might purchase milk. They were instructed not to purchase milk from any dairy that was not on the list. There were four dairies omitted from the list, because they were considered unsafe in cleanliness and technique, and among them was the dairy (dairy X) responsible for the outbreak of scarlet fever here reported. It is alarming to think what might have been the consequences if the milk from dairy X had been delivered to those 300 underweight school children in the city of Helena.

The occurrence of this outbreak of scarlet fever caused by milk-borne infection adds another item to the long list indicating the importance (a) of cleanly methods in the handling of all milk for human consumption, and (b) of the pasteurization of public milk supplies.

CURRENT COURT DECISIONS PERTAINING TO PUBLIC HEALTH.

Use as cemetery of land near water supply restrained.—The New York Supreme Court has restrained the use of certain land for cemetery purposes and has held that a town board of health was justified in adopting a resolution declaring the proposed use of the land for such purposes to be a public nuisance. The land in question was near several drinking-water wells, and, because of the nature of the soil, the burial of dead human bodies on the tract would have created a nuisance. (*Town of Cheektowaga v. Sts. Peter and Paul Greek Russian Orthodox Church, of Buffalo, N. Y.*, 205 N. Y. Supp. 334.)

City liable for negligent installation and management of incinerator.—The Supreme Court of South Carolina has decided that a city must respond in damages for the negligent installation and management of an incinerator. The court held that the action was maintainable against the city, even though there was no statute authorizing it, and also held that the plaintiff had a cause of action based upon negligent operation, even though he may not have suffered damage different in kind as well as in degree from what the general public has suffered. (*Kneece v. City of Columbia*, 123 S. E. 100.)

City liable for sewage pollution of stream.—Even though a city has created and maintains a recognized sewage disposal plant or was not negligent in its adoption of a proper plant, the Supreme Court of Wisconsin has held that it must respond in damages where it has created a nuisance by the discharge of sewage into a stream, and that it is subject to injunctive relief having as its aim the abatement of the nuisance. (*Mitchell Realty Co. et al. v. City of West Allis*, 199 N. W. 390.)

Discharge of sewage effluent by city.—The California District Court of Appeal, Third District, has held that a permit issued by the State board of health authorizing a city to discharge sewage effluent into a river does not authorize the city to create or continue a nuisance or in anywise limit the power of the court to abate the same if found to exist. (*People v. City of Reedley et al.*, 226 Pac. 408.)

Physical examination of venereally infected person.—The Supreme Court of Mississippi, Division B, has held that a statute which authorized the physical examination of any person suspected of being afflicted with an infectious venereal disease was not violated by a refusal to appear for examination in response to a summons issued by an officer of the board of health. The constitutionality of the act in question (chapter 194 of the 1918 session laws) was attacked, but was not passed upon by the court. (*City of Jackson v. Mitchell*, 100 South. 513.)

DEATH RATES IN A GROUP OF INSURED PERSONS.

COMPARISON OF PRINCIPAL CAUSES OF DEATH, JULY AND AUGUST, 1924, AND AUGUST AND YEAR, 1923.

The accompanying table is taken from the Statistical Bulletin for September, 1924, published by the Metropolitan Life Insurance Co., and presents the mortality experience of the industrial insurance department of the company for August, 1924, as compared with that for July, 1924, and for August and year, 1923. The rates are based on a strength of approximately 15,000,000 insured persons.

Health conditions in this group of persons, as reflected in the mortality rates, continued good during August, the gross death rate for the month being 7.3 per 1,000—the lowest rate for August on the records of the company. This rate shows a decline of 13 per cent as compared with rates for August, 1923, and for July, 1924, both of which were 8.4 per 1,000.

This favorable health condition for August, 1924, as compared with the corresponding month of last year, applies to all of the principal causes of death and diseases of public health importance with the one exception of scarlet fever. The slight increase in mortality from scarlet fever has no significance, however, in view of the very low death rates for this disease for the month in both years.

The continued low death rates for typhoid fever and tuberculosis apparently justify the prediction that these diseases will establish record low rates for the year.

The rates for the "degenerative diseases" continued to show declines as compared with the preceding months, and are also much lower than the rates for the same month of 1923.

Death rates (annual basis) for principal causes per 100,000 lives exposed, July and August, 1924, and August and year, 1923.

[Industrial Department, Metropolitan Life Insurance Co.]

Cause of death.	Death rate per 100,000 lives exposed. ¹			
	Aug. 1924.	July, 1924.	Aug., 1923. ²	Year 1923. ²
Total, all causes.....	730.2	839.2	842.0	928.2
Typhoid fever.....	6.0	4.2	8.1	5.1
Measles.....	1.7	3.7	6.2	9.5
Scarlet fever.....	1.8	3.4	1.6	4.4
Whooping cough.....	6.1	8.3	9.7	7.4
Diphtheria.....	5.7	7.6	9.3	15.5
Influenza.....	4.0	5.0	4.1	30.3
Tuberculosis (all forms).....	90.9	100.1	105.6	110.1
Tuberculosis of respiratory system.....	78.9	88.1	93.5	99.7
Cancer.....	61.3	70.9	67.4	71.8
Diabetes mellitus.....	11.4	12.3	12.1	16.0
Cerebral hemorrhage.....	46.9	53.0	47.3	61.2
Organic diseases of heart.....	95.3	109.4	103.7	127.3
Pneumonia (all forms).....	32.3	46.6	35.6	83.9
Other respiratory diseases.....	7.6	11.6	8.6	13.9
Diarrhea and enteritis.....	49.8	35.1	69.1	28.2
Bright's disease (chronic nephritis).....	49.2	60.1	57.6	68.8
Fuerperal state.....	11.9	15.1	13.1	17.7
Suicides.....	5.0	5.8	5.7	7.3
Homicides.....	7.1	9.1	7.4	7.3
Other external causes (excluding suicides and homicides).....	66.6	82.7	73.8	62.9
Traumatism by automobile.....	14.8	18.0	18.2	15.3
All other causes.....	169.7	195.4	195.8	179.4

¹ All figures include infants insured under 1 year of age.

² Provisional figures for 1923 given previously have been revised on the basis of final tabulations of data on the lives exposed to risk.

DEATHS DURING WEEK ENDED OCTOBER 4, 1924.

Summary of information received by telegraph from industrial insurance companies for week ended October 4, 1924, and corresponding week of 1923. (From the Weekly Health Index, October 7, 1924, issued by the Bureau of the Census, Department of Commerce.)

	Week ended October 4, 1924.	Corresponding week, 1923.
Policies in force.....	57, 129, 488	53, 593, 522
Number of death claims.....	9, 086	8, 906
Death claims per 1,000 policies in force, annual rate.....	8. 3	8. 7

Deaths from all causes in certain large cities of the United States during the week ended October 4, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, October 7, 1924, issued by the Bureau of the Census, Department of Commerce.)

City.	Week ended Oct. 4, 1924.		Annual death rate per 1,000, corre- sponding week, 1923.	Deaths under 1 year.		Infant mortal- ity rate, week ended Oct. 4, 1924. ¹
	Total deaths.	Death rate. ¹		Week ended Oct. 4, 1924.	Corre- sponding week, 1923.	
Total (64 cities).....	5, 606	11. 1	10. 5	749	772	
Akron.....	32			5	14	53
Albany.....	35	15. 4	12. 4	2	3	46
Atlanta.....	54	12. 4	11. 2	3	9	
Baltimore.....	207	13. 8	13. 1	38	24	113
Birmingham.....	65	16. 9	10. 6	15	10	
Bridgeport.....	30			5	6	80
Buffalo.....	143	13. 7	10. 3	18	13	76
Cambridge.....	22	10. 2	12. 6	1	3	17
Camden.....	37	15. 3	15. 5	6	10	98
Canton.....	17	8. 6	10. 5	4	4	87
Chicago.....	545	9. 7	9. 8	69	96	64
Cincinnati.....	98	12. 5	13. 1	6	16	38
Cleveland.....	142	8. 1	7. 4	22	18	56
Columbus.....	58	11. 3	12. 6	7	10	66
Dallas.....	42	11. 7	9. 2	8	4	
Dayton.....	44	13. 6	8. 2	7	7	117
Denver.....	60			11	13	
Des Moines.....	28	10. 1	15. 5	0	7	
Detroit.....	245			42	48	78
Duluth.....	17	8. 2	5. 9	1	3	22
Erie.....	17			4	2	83
Fall River.....	24	10. 3	7. 8	6	6	84
Flint.....	18			6	8	104
Fort Worth.....	23	8. 1	5. 1	6	4	
Grand Rapids.....	31	10. 9	6. 8	3	3	47
Houston.....	28			5	3	
Indianapolis.....	69	13. 2	9. 9	13	15	96
Jacksonville, Fla.....	20	10. 2	18. 2	3	2	
Jersey City.....	65	10. 9	7. 8	10	7	71
Kansas City, Kans.....	28	12. 4	13. 1	1	4	19
Kansas City, Mo.....	100	14. 5	9. 8	16	7	
Los Angeles.....	204			20	21	62
Louisville.....	86	17. 3	14. 2	15	9	140
Lowell.....	35	15. 8	14. 0	6	7	107
Lynn.....	25	12. 6	11. 2	2	3	51
Memphis.....	65	19. 7	20. 8	6	6	
Milwaukee.....	67	7. 1	10. 7	8	11	38
Minneapolis.....	59	7. 4	9. 4	6	5	32
Nashville.....	40	16. 9	14. 9	3	6	
New Bedford.....	25	9. 8	12. 0	3	8	47
New Haven.....	52	15. 4	14. 5	4	6	53
New Orleans.....	116	14. 8	14. 6	13	12	
New York.....	1, 205	10. 4	9. 9	162	164	66
Bronx Borough.....	146	8. 7	6. 6	19	9	67
Brooklyn Borough.....	413	9. 8	9. 7	59	62	63
Manhattan Borough.....	513	11. 8	11. 6	61	78	62
Queens Borough.....	97	9. 1	8. 6	16	13	81
Richmond Borough.....	36	14. 4	9. 4	7	2	128

¹ Annual rate per 1,000 population.

² Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1923. Cities left blank are not in the registration area for births.

³ Data for 62 cities.

⁴ Deaths for week ended Friday, October 3, 1924.

Deaths from all causes in certain large cities of the United States during the week ended October 4, 1924, infant mortality, annual death rate, and comparison with corresponding week of 1923. (From the Weekly Health Index, October 7, 1924, issued by the Bureau of the Census, Department of Commerce.)—Continued.

City.	Week ended Oct. 4, 1924.		Annual death rate per 1,000, corresponding week, 1923.	Deaths under 1 year.		Infant mortality rate, week ended Oct. 4, 1924.
	Total deaths.	Death rate.		Week ended Oct. 4, 1924.	Corresponding week, 1923.	
Newark, N. J.	73	8.5	9.9	20	15	94
Norfolk	30	9.5	9.8	6	5	107
Oakland	49	10.3	12.6	6	13	75
Oklahoma City	28	14.0		8		
Omaha	25	6.3	11.5	6	3	64
Paterson	28	10.4	12.0	3	6	51
Philadelphia	424	11.3	10.2	54	53	69
Pittsburgh	166	13.8	12.4	34	25	115
Portland, Oreg.	57	10.7	9.5	2	4	21
Providence	55	11.8	9.9	6	7	49
Richmond	51	14.5	12.7	7	10	85
Rochester	74	11.9		11		87
St. Louis	196	12.6	11.1	21	25	
St. Paul	27	5.8	8.2	5	5	43
San Antonio	47	12.8	11.9	11	6	
San Francisco	146	13.9	11.4	12	8	72
Schenectady	15	7.8	9.0	4	1	119
Seattle	71			7	6	68
Somerville	20	10.4	10.0	3	3	82
Spokane	29			2	1	44
Springfield, Mass.	36	12.6	12.7	3	12	51
Syracuse	39	10.8	7.9	1	5	12
Tacoma	21	10.6	7.7	0	0	0
Toledo	52	9.8	10.6	4	5	38
Trenton	25	10.1	11.9	3	2	50
Utica	18	8.9	9.1	1	3	23
Washington, D. C.	90	9.6	13.1	9	17	52
Waterbury	23			5	9	116
Wilmington, Del.	20	8.7	7.5	3	3	67
Worcester	37	9.9	7.1	2	3	24
Yonkers	19	9.0	7.8	5	6	109
Youngstown	29	9.7	11.1	6	5	83

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 October 11, 1924.

ALABAMA.		CALIFORNIA—continued.	
	Cases.		Cases.
Cerebrospinal meningitis.....	1	Measles.....	20
Chicken pox.....	4	Poliomyelitis:	
Dengue.....	2	San Francisco.....	1
Diphtheria.....	38	Pomona.....	1
Dysentery.....	3	Contra Costa County.....	1
Influenza.....	16	Scarlet fever.....	96
Malaria.....	151	Smallpox:	
Measles.....	1	Fresno.....	9
Mumps.....	16	Los Angeles.....	9
Pellagra.....	9	Sacramento.....	9
Pneumonia.....	20	Scattering.....	23
Scarlet fever.....	17	Typhoid fever.....	18
Smallpox.....	9	Typhus fever—Los Angeles.....	1
Tuberculosis.....	19		
Typhoid fever.....	51		
Whooping cough.....	12		
ARIZONA.		COLORADO.	
		(Exclusive of Denver.)	
Mumps.....	6	Cerebrospinal meningitis.....	1
Scarlet fever.....	1	Chicken pox.....	5
Smallpox.....	2	Diphtheria.....	10
Typhoid fever.....	1	Pneumonia.....	1
Whooping cough.....	4	Scarlet fever.....	5
		Tuberculosis.....	22
		Typhoid fever.....	9
ARKANSAS.		CONNECTICUT.	
Chicken pox.....	3	Chicken pox.....	14
Diphtheria.....	11	Diphtheria.....	29
Hookworm disease.....	2	Dysentery (bacillary).....	1
Influenza.....	26	Lethargic encephalitis.....	1
Malaria.....	107	Measles.....	9
Measles.....	1	Mumps.....	14
Mumps.....	3	Pneumonia (lobar).....	20
Pellagra.....	5	Poliomyelitis.....	10
Scarlet fever.....	4	Scarlet fever.....	42
Tuberculosis.....	6	Tetanus.....	3
Typhoid fever.....	24	Tuberculosis (all forms).....	42
Whooping cough.....	22	Typhoid fever.....	13
		Whooping cough.....	46
CALIFORNIA.		DELAWARE.	
Cerebrospinal meningitis—Alameda.....	1	Chicken pox.....	1
Diphtheria.....	169	Diphtheria.....	1
Influenza.....	4	Measles.....	1
Lethargic encephalitis:		Scarlet fever.....	2
Azusa.....	1	Tuberculosis.....	1
Ferndale.....	1	Typhoid fever.....	2
San Francisco.....	1		

FLORIDA.		INDIANA—continued.	
	Cases.		Cases.
Diphtheria.....	19	Scarlet fever.....	73
Malaria.....	22	Smallpox.....	11
Scarlet fever.....	2	Trachoma.....	2
Typhoid fever.....	10	Tuberculosis.....	44
		Typhoid fever.....	17
		Whooping cough.....	18
GEORGIA.		IOWA.	
Chicken pox.....	2	Diphtheria.....	11
Diphtheria.....	83	Poliomyelitis.....	3
Dysentery (amebic).....	1	Scarlet fever.....	15
Hookworm disease.....	15	Smallpox.....	19
Influenza.....	1	Typhoid fever.....	6
Malaria.....	27		
Measles.....	1	KANSAS.	
Mumps.....	3	Cerebrospinal meningitis.....	1
Pneumonia.....	3	Chicken pox.....	37
Scarlet fever.....	4	Diphtheria.....	36
Smallpox.....	1	German measles.....	1
Tuberculosis (all forms).....	12	Influenza.....	1
Typhoid fever.....	18	Measles.....	4
Typhus fever.....	1	Mumps.....	35
		Pneumonia.....	12
ILLINOIS.		Poliomyelitis.....	3
Cerebrospinal meningitis:		Scarlet fever.....	52
Cook County.....	3	Tuberculosis.....	40
Du Page County.....	1	Typhoid fever.....	14
Sangamon County.....	1	Whooping cough.....	17
Tazewell County.....	1		
Diphtheria:		LOUISIANA.	
Cook County.....	68	Diphtheria.....	18
Scattering.....	49	Hookworm disease.....	5
Influenza.....	5	Malaria.....	9
Measles.....	38	Measles.....	4
Pneumonia.....	183	Pneumonia.....	20
Poliomyelitis:		Poliomyelitis.....	1
Bureau County.....	1	Scarlet fever.....	8
Carroll County.....	1	Smallpox.....	4
Cass County.....	1	Tuberculosis.....	30
Clay County.....	1	Typhoid fever.....	17
Cook County.....	11		
De Kalb County.....	1	MAINE.	
Henry County.....	1	Cerebrospinal meningitis.....	1
Jo Daviess County.....	1	Chicken pox.....	16
Lee County.....	1	Diphtheria.....	6
McLean County.....	1	Lethargic encephalitis.....	1
Will County.....	1	Measles.....	1
Scarlet fever:		Mumps.....	7
Cook County.....	95	Pneumonia.....	3
Kane County.....	9	Poliomyelitis.....	9
La Salle County.....	10	Scarlet fever.....	8
Scattering.....	73	Septic sore throat.....	2
Smallpox:		Smallpox.....	1
Carroll County.....	30	Tuberculosis.....	14
Scattering.....	12	Typhoid fever.....	14
Tuberculosis.....	365	Whooping cough.....	1
Typhoid fever.....	51		
Whooping cough.....	116	MARYLAND. ¹	
		Chicken pox.....	25
INDIANA.		Diphtheria.....	40
Chicken pox.....	27	Dysentery.....	5
Diphtheria.....	89	Influenza.....	8
Influenza.....	14	Malaria.....	3
Measles.....	15	Measles.....	9
Mumps.....	4	Mumps.....	12
Pneumonia.....	5	Paratyphoid fever.....	4
Poliomyelitis.....	6		

¹ Week ended Friday.

MARYLAND—continued.

	Cases.
Pneumonia (all forms).....	23
Poliomyelitis.....	11
Scarlet fever.....	20
Tuberculosis.....	62
Typhoid fever.....	29
Whooping cough.....	60

MASSACHUSETTS.

Anthrax.....	1
Cerebrospinal meningitis.....	3
Chicken pox.....	48
Conjunctivitis (suppurative).....	21
Diphtheria.....	115
Dysentery.....	3
German measles.....	1
Hookworm disease.....	1
Influenza.....	7
Lethargic encephalitis.....	3
Malaria.....	2
Measles.....	50
Mumps.....	32
Ophthalmia neonatorum.....	22
Pellagra.....	1
Pneumonia (lobar).....	60
Poliomyelitis.....	16
Scarlet fever.....	139
Septic sore throat.....	4
Tetanus.....	1
Trichinosis.....	1
Tuberculosis (all forms).....	138
Typhoid fever.....	15
Whooping cough.....	32

MICHIGAN.

Diphtheria.....	104
Measles.....	82
Pneumonia.....	28
Scarlet fever.....	152
Smallpox.....	7
Tuberculosis.....	46
Typhoid fever.....	21
Whooping cough.....	66

MINNESOTA.

Chicken pox.....	53
Diphtheria.....	102
Measles.....	11
Poliomyelitis.....	7
Scarlet fever.....	122
Smallpox.....	40
Tuberculosis.....	58
Typhoid fever.....	6
Whooping cough.....	3

MISSISSIPPI.

Diphtheria.....	34
Scarlet fever.....	7
Smallpox.....	1
Typhoid fever.....	20

MISSOURI.

Cerebrospinal meningitis.....	4
Chicken pox.....	41
Diphtheria.....	154
Measles.....	16
Mumps.....	7
Ophthalmia neonatorum.....	4

MISSOURI—continued.

	Cases.
Pneumonia.....	1
Poliomyelitis.....	8
Scarlet fever.....	437
Septic sore throat.....	2
Trachoma.....	23
Tetanus.....	1
Tuberculosis.....	131
Typhoid fever.....	37
Whooping cough.....	17

MONTANA.

Diphtheria.....	9
Poliomyelitis:	
Arlee.....	1
Deer Lodge.....	1
East Helena.....	1
Helena.....	1
Helena R. F. D.....	1
Livingston.....	1
Missoula.....	2
Ronan.....	1
St. Ignatius.....	4
Townsend R. F. D.....	2
Victor.....	1
Scattering.....	2
Scarlet fever.....	23
Smallpox.....	8
Typhoid fever.....	6

NEW JERSEY.

Cerebrospinal meningitis.....	1
Chicken pox.....	106
Diphtheria.....	68
Influenza.....	1
Malaria.....	1
Measles.....	33
Pneumonia.....	51
Poliomyelitis.....	4
Scarlet fever.....	70
Smallpox.....	1
Trachoma.....	3
Typhoid fever.....	26
Whooping cough.....	141

NEW MEXICO.

Chicken pox.....	5
Diphtheria.....	6
Influenza.....	2
Measles.....	47
Mumps.....	2
Paratyphoid fever.....	1
Pellagra.....	1
Pneumonia.....	5
Poliomyelitis.....	1
Scarlet fever.....	2
Tuberculosis.....	22
Typhoid fever.....	49
Whooping cough.....	4

NEW YORK.

(Exclusive of New York City.)

Cerebrospinal meningitis.....	3
Diphtheria.....	151
Influenza.....	19
Lethargic encephalitis.....	4
Measles.....	81

NEW YORK—continued.

	Cases.
Pneumonia.....	138
Poliomyelitis.....	34
Scarlet fever.....	121
Smallpox.....	4
Typhoid fever.....	58
Whooping cough.....	191

NORTH CAROLINA.

Cerebrospinal meningitis.....	1
Chicken pox.....	25
Diphtheria.....	244
German measles.....	1
Measles.....	21
Poliomyelitis.....	2
Scarlet fever.....	51
Septic sore throat.....	3
Smallpox.....	5
Typhoid fever.....	37
Whooping cough.....	85

OKLAHOMA.

(Exclusive of Oklahoma City and Tulsa.)

Diphtheria.....	8
Smallpox.....	3
Typhoid fever.....	15

OREGON.

Chicken pox.....	21
Diphtheria:	
Portland.....	16
Scattering.....	21
Influenza.....	12
Lethargic encephalitis.....	1
Malaria.....	1
Measles.....	1
Pneumonia.....	11
Poliomyelitis.....	13
Scarlet fever.....	20
Smallpox.....	5
Tuberculosis.....	17
Typhoid fever.....	3
Whooping cough.....	2

SOUTH DAKOTA.

Chicken pox.....	4
Diphtheria.....	5
Measles.....	1
Pneumonia.....	1
Poliomyelitis.....	2
Scarlet fever.....	35
Smallpox.....	1
Tetanus.....	1
Typhoid fever.....	2
Whooping cough.....	8

TEXAS.

Chicken pox.....	17
Dengue.....	7
Diphtheria.....	36
Dysentery.....	6
Influenza.....	59
Measles.....	9
Mumps.....	14
Ophthalmia neonatorum.....	1
Paratyphoid fever.....	9

TEXAS—continued.

	Cases.
Pellagra.....	20
Pneumonia.....	6
Poliomyelitis.....	1
Scarlet fever.....	23
Smallpox.....	2
Trachoma.....	12
Tuberculosis.....	67
Typhoid fever.....	52
Typhus fever.....	3
Whooping cough.....	47

VERMONT.

Chicken pox.....	15
Diphtheria.....	5
Mumps.....	5
Poliomyelitis.....	1
Whooping cough.....	8

VIRGINIA.

Cerebrospinal meningitis:	
Giles County.....	2
Roanoke County.....	1
Poliomyelitis—Accomac County.....	1

WASHINGTON.

Chicken pox.....	53
Diphtheria.....	33
Measles.....	10
Mumps.....	16
Poliomyelitis:	
Bellingham.....	1
Seattle.....	17
Spokane.....	6
Tacoma.....	15
Yakima.....	1
Franklin County.....	1
Okanogan County.....	2
Skagit County.....	2
Stevens County.....	4
Yakima County.....	1
Scarlet fever.....	18
Smallpox.....	5
Tuberculosis.....	27
Typhoid fever.....	13
Whooping cough.....	21

WEST VIRGINIA.

Diphtheria.....	6
Scarlet fever.....	22
Typhoid fever.....	22

WISCONSIN.

Milwaukee:	
Chicken pox.....	21
Diphtheria.....	16
Measles.....	1
Mumps.....	10
Pneumonia.....	5
Scarlet fever.....	6
Tuberculosis.....	14
Typhoid fever.....	1
Whooping cough.....	10
Scattering:	
Cerebrospinal meningitis.....	2
Chicken pox.....	80

¹ Deaths.

WISCONSIN—continued.

Scattering—Continued.	Cases.
Diphtheria.....	53
German measles.....	3
Influenza.....	3
Measles.....	40
Mumps.....	6
Pneumonia.....	13
Poliomyelitis.....	3
Scarlet fever.....	100
Smallpox.....	18
Tuberculosis.....	29

WISCONSIN—continued.

Scattering—Continued.	Cases.
Typhoid fever.....	5
Whooping cough.....	101
WYOMING.	
Chicken pox.....	1
Impetigo contagiosa.....	1
Mumps.....	4
Pneumonia.....	1
Scarlet fever.....	2
Typhoid fever.....	2
Whooping cough.....	4

Reports for Week Ended October 4, 1924.

ALABAMA.

	Cases.
Cerebrospinal meningitis.....	2
Chicken pox.....	3
Diphtheria.....	27
Dysentery.....	12
Influenza.....	10
Malaria.....	94
Measles.....	9
Mumps.....	28
Pellagra.....	2
Pneumonia.....	16
Scarlet fever.....	15
Smallpox.....	10
Tetanus.....	1
Typhoid fever.....	46
Whooping cough.....	12

CALIFORNIA.

Cerebrospinal meningitis:	
Long Beach.....	1
Los Angeles.....	1
Stockton.....	1
Diphtheria.....	185
Influenza.....	18
Leprosy:	
Los Angeles.....	1
San Francisco.....	1
Measles.....	17
Poliomyelitis:	
Los Angeles.....	1
Oakland.....	1
Pasadena.....	1
Scarlet fever.....	76
Smallpox:	
Los Angeles.....	22
Scattering.....	20
Typhoid fever:	
Lassen County.....	15
Scattering.....	26

DISTRICT OF COLUMBIA.

Chicken pox.....	1
Diphtheria.....	7
Lethargic encephalitis.....	2
Measles.....	1
Poliomyelitis.....	5
Scarlet fever.....	5
Tuberculosis.....	24
Whooping cough.....	4

INDIANA.

	Cases.
Chicken pox.....	19
Diphtheria.....	72
Influenza.....	54
Measles.....	7
Pneumonia.....	11
Poliomyelitis.....	4
Scarlet fever.....	75
Smallpox.....	27
Tuberculosis.....	28
Typhoid fever.....	43
Whooping cough.....	19

MINNESOTA.

Cerebrospinal meningitis.....	1
Chicken pox.....	26
Diphtheria.....	85
Influenza.....	5
Lethargic encephalitis.....	1
Measles.....	7
Pneumonia.....	1
Poliomyelitis.....	10
Scarlet fever.....	132
Smallpox.....	25
Tuberculosis.....	71
Typhoid fever.....	9
Whooping cough.....	8

MISSISSIPPI.

Diphtheria.....	22
Scarlet fever.....	9
Smallpox.....	19
Typhoid fever.....	15

MISSOURI.

(Exclusive of St. Louis.)

Chicken pox.....	12
Diphtheria.....	50
Influenza.....	1
Measles.....	1
Mumps.....	1
Poliomyelitis.....	1
Pneumonia.....	3
Scarlet fever.....	35
Trachoma.....	46
Tuberculosis.....	16
Typhoid fever.....	25
Whooping cough.....	7

NEBRASKA.

	Cases.
Chicken pox.....	10
Diphtheria.....	34
Mumps.....	2
Pneumonia.....	1
Scarlet fever.....	16
Smallpox.....	1
Tuberculosis.....	1
Typhoid fever.....	1
Whooping cough.....	1

NORTH DAKOTA.¹

Cerebrospinal meningitis.....	3
Chicken pox.....	33
Diphtheria.....	13
Measles.....	23
Pneumonia.....	2
Poliomyelitis.....	9
Scarlet fever.....	67
Smallpox.....	10
Trachoma.....	11
Tuberculosis.....	4

¹ Report for 2 weeks ended Oct. 4, 1924.

NORTH DAKOTA—continued

	Cases.
Typhoid fever.....	2
Whooping cough.....	23

OKLAHOMA

(Exclusive of Oklahoma City and Tulsa.)

Cerebrospinal meningitis:	
Okmulgee County.....	1
Tillman County.....	1
Diphtheria.....	12
Influenza.....	3
Typhoid fever.....	45

WYOMING.

Chicken pox.....	4
Diphtheria.....	1
Measles.....	1
Mumps.....	11
Scarlet fever.....	2
Trachoma.....	8
Typhoid fever.....	4
Whooping cough.....	2

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.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pollagra.	Poliomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
<i>August, 1924.</i>										
California.....	8	521	21	3	146	3	9	156	211	94
South Dakota.....		22			14		6	53	5	37
<i>September, 1924.</i>										
Georgia.....		112	13	96	3	13		26	5	98
Massachusetts.....	17	318	7	1	143		88	367		81
Oklahoma.....	2	55	6	18	3	4	1	26	14	165

FOOT-AND-MOUTH DISEASE IN TEXAS.

Foot-and-mouth disease is reported to be prevalent in the vicinity of Houston, Tex., the first cases having been notified during the latter part of September. No outbreaks from new foci have occurred since that time and no human cases have been reported. State and Federal officials are in charge of control measures.

The Republic of Mexico has established a quarantine against vehicles, freight, and passengers from the infected district, and is requiring that Pullman coaches, freight cars, automobiles, and other vehicles be fumigated and that passengers and baggage from the infected zone be disinfected before being allowed to enter Mexico.

GENERAL CURRENT SUMMARY AND WEEKLY REPORTS FROM CITIES.

Diphtheria.—For the week ended September 27, 1924, 35 States reported 1,573 cases of diphtheria. For the week ended September 29, 1923, the same States reported 2,343 cases of this disease. One hundred and one cities, situated in all parts of the country, and having an aggregate population of more than 28,500,000, reported 771 cases of diphtheria for the week ended September 27, 1924. Last year, for the corresponding week, they reported 1,069 cases. The estimated expectancy for these cities was 1,031 cases of diphtheria. The estimated expectancy is based on the experience of the last nine years, excluding epidemics.

Measles.—Thirty States reported 366 cases of measles for the week ended September 27, 1924, and 1,101 cases of this disease for the week ended September 29, 1923. One hundred and one cities reported 104 cases of measles for the week this year and 329 cases last year.

Scarlet fever.—Scarlet fever was reported for the week as follows: Thirty-five States—this year, 1,376 cases; last year, 1,763 cases. One hundred and one cities—this year, 581; last year, 611 cases; estimated expectancy, 508 cases.

Smallpox.—For the week ended September 27, 1924, 35 States reported 278 cases of smallpox. Last year, for the corresponding week, they reported 155 cases. One hundred and one cities reported smallpox for the week as follows: 1924, 82 cases; 1923, 28 cases; estimated expectancy, 25 cases. These cities reported two deaths from smallpox for the week this year.

Typhoid fever.—Seven hundred and eighty-four cases of typhoid fever were reported for the week ended September 27, 1924, by 34 States. For the corresponding week of 1923 the same States reported 782 cases. One hundred and one cities reported 279 cases of typhoid fever for the week this year and 202 cases for the week last year. The estimated expectancy for these cities was 221 cases.

Influenza and pneumonia.—Deaths from influenza and pneumonia (combined) were reported for the week by 101 cities as follows: 1924, 384 deaths; 1923, 362 deaths.

City reports for week ended September 27, 1924.

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.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.
NEW ENGLAND.										
Maine:										
Lewiston.....	0	1	3	0	0	0	1	0	1	3
Portland.....	0	2	0	0	0	0	7	0	1	0
New Hampshire:										
Concord.....	0	1	0	0	0	0	0	0	0	0
Vermont:										
Barre.....	0	1	0	0	0	0	0	0	1	0
Burlington.....	1	1	1	0	0	0	0	0	1	0
Massachusetts:										
Boston.....	7	42	27	2	0	6	1	9	17	30
Fall River.....	3	5	5	1	1	0	0	0	1	3
Springfield.....	2	3	3	0	0	1	1	2	4	1
Worcester.....	1	6	4	0	0	2	0	3	4	5
Rhode Island:										
Pawtucket.....	0	1	5	0	0	0	0	1	1	0
Providence.....	0	8	7	0	0	0	0	4	4	2
Connecticut:										
Bridgeport.....	0	7	3	0	0	0	0	0	3	1
Hartford.....	0	5	1	0	0	1	0	0	3	0
New Haven.....	1	4	0	0	0	5	1	1	2	4
MIDDLE ATLANTIC.										
New York—										
Buffalo.....	0	23	8	0	0	2	0	8	10	7
New York.....	28	113	134	15	4	12	5	88	47	54
Rochester.....		8	0	0	0	0		3	4	7
Syracuse.....	6	10	5	0	0	3	3	3	6	4
New Jersey:										
Camden.....	2	4	8	0	0	0	0	0	2	1
Newark.....	5	12	4	0	0	4	2	7	7	7
Trenton.....	0	5	6	0	0	0	0	1	1	1
Pennsylvania:										
Philadelphia.....	11	47	56	1	0	7	10	24	23	26
Pittsburgh.....	27	29	31	0	1	10	8	17	16	21
Reading.....	1	2	3	0	0	0	2	1	1	0
Scranton.....	1	5	1	0	0	0	0	6	2	0
EAST NORTH CENTRAL.										
Ohio:										
Cincinnati.....	5	18	7	0	0	0	0	6	7	14
Cleveland.....	11	38	13	2	0	1	1	7	19	13
Columbus.....	3	7	2	0	0	0	1	3	4	0
Toledo.....	1	16	7	0	1	0	0	5	7	7
Indiana:										
Fort Wayne.....	0	3	9	0	0	0	0	1	1	1
Indianapolis.....		23	11	0	0	2		8	5	3
South Bend.....	6	1	0	0	0	0	0	1	2	3
Terre Haute.....	0	3	0	0	1	0	0	1	1	0
Illinois:										
Chicago.....	18	128	53	2	1	18	12	33	65	43
Cicero.....	0	5	0	0	0	0	0	2	2	0
Peoria.....	2	1	2	0	0	0	0	3	7	1
Springfield.....		1	4	0	0	0		1	2	0
Michigan:										
Detroit.....	8	61	36	0	0	4	4	16	37	28
Flint.....	1	9	4	0	0	0	4	0	4	7
Grand Rapids.....	1	6	1	0	0	0	0	1	4	5
Saginaw.....	2	2	0	0	0	0	0	0	2	1

City reports for week ended September 27, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.		
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.	
EAST NORTH CENTRAL—CON.											
Wisconsin:											
Madison.....	4	1	2	0	0	0	5	1	1	0	
Milwaukee.....	10	18	7	0	0	3	3	0	19	5	
Racine.....	0	1	2	0	0	1	1	0	4	1	
Superior.....	0	1	0	0	0	0	0	1	1	0	
WEST NORTH CENTRAL.											
Minnesota:											
Duluth.....	8	5	1	0	0	1	0	0	2	20	
Minneapolis.....	5	27	17	0	1	1	1	2	14	36	
St. Paul.....		17	34	0	0	0		2	8	11	
Iowa:											
Davenport.....	0	2	1	0		0	0		1	0	
Des Moines.....	0	8	1	0		0	0		7	2	
Sioux City.....	0	2	1	0		0	0		1	4	
Waterloo.....	1	1	0	0		0	0		1	0	
Missouri:											
Kansas City.....	3	11	6	0	0	0	1	3	4	2	
St. Joseph.....	0	2	0	0	0	0	0	1	3	0	
St. Louis.....	6	54	11	0	0	5	3		19	90	
North Dakota:											
Fargo.....		1							2		
Grand Forks.....	0	1	0	0		0	0		1	1	
South Dakota:											
Aberdeen.....			0	0		0				2	
Sioux Falls.....	0	1	4	0	0	0	0	0	1	2	
Nebraska:											
Lincoln.....	1	1	0	0	0	0	1	0	1	1	
Omaha.....	3	14	16	0	0	0	0	6	2	1	
Kansas:											
Topeka.....	1	3	0	0	0	0	2	2	1	5	
Wichita.....	0	3	2	0	0	0	0	1	3	0	
SOUTH ATLANTIC.											
De aware:											
Wilmington.....	0	1	3	0	0	0	0	2	2	4	
Maryland:											
Baltimore.....	7	20	22	9	1	2	2	14	9	7	
Cumberland.....		1	0	0	0	0		0	1	0	
Fredrick.....		1	0	0	0	0		0	0	0	
District of Colum- bia:											
Washington.....	1	11	5	1	1	1		10	7	5	
Virginia:											
Lynchburg.....		1	3	0	0	0	14	0	1	1	
Norfolk.....	0	3	0	0	0	0	2	0	1	0	
Richmond.....	0	14	26	0	0	0	0	1	6	6	
Roanoke.....	0	5	1	0	0	0	0	0	1	6	
West Virginia:											
Charleston.....	0	3	1	0	0	0	0	2	1	0	
Huntington.....	0	4	6	0	0	0	0		2	2	
Wheeling.....	0	2	0	0	0	0	0	1	2	1	
North Carolina:											
Raleigh.....	0	4	3	0	0	0	0	3	2	0	
Wilmington.....	0	2	0	0	0	0	0	0	1	0	
Winston-Salem.....	5	3	12	0	0	0	0	1	1	3	
South Carolina:											
Charleston.....	0	1	2	0	0	0	0	0	1	0	
Columbia.....	0	3	0	0	0	0	0	1	1	0	
Greenville.....	0	1	2	0	0	0	0	0	1	0	
Georgia:											
Atlanta.....	0	10	8	0	1	0	0	4	6	3	
Brunswick.....		0	0	0	0	0		0	1	0	
Savannah.....	0	3	0	0	0	0	0	2	1	0	
Florida:											
St. Petersburg.....	0	0	0	0	0	0	0	0	0	0	
Tampa.....		2	1	1	0	0		1	0	0	

City reports for week ended September 27, 1924—Continued.

Division, State, and city.	Chick- en pox, cases re- ported.	Diphtheria.		Influenza.		Meas- les, cases re- ported.	Mumps, cases re- ported.	Pneu- monia, deaths re- ported.	Scarlet fever.	
		Cases, esti- mated expect- ancy.	Cases re- ported.	Cases re- ported.	Deaths re- ported.				Cases, esti- mated expect- ancy.	Cases re- ported.
EAST SOUTH CENTRAL.										
Kentucky:										
Covington.....	0	2	3	0	0	0	1	0	1	1
Lexington.....	2	1	0	0	0	0	0	1	2	0
Louisville.....	1	12	2	0	0	1	0	6	3	2
Tennessee:										
Memphis.....	0	10	5	0	0	0	1	4	2	3
Nashville.....		4	0		2	0		0	4	2
Alabama:										
Birmingham....	2	8	9	2	1	0	1	4	5	7
Mobile.....	0	2	0	0	0	0	0	0	1	2
Montgomery....	0	1	3	4	0	1	1	0	1	0
WEST SOUTH CENTRAL.										
Arkansas:										
Fort Smith.....	0	1	1	0		0	0		1	1
Little Rock.....	0	1	5	0	0	0	0		1	0
Louisiana:										
New Orleans.....	0	11	6	1	1	1	0	3	2	2
Shreveport.....	0		0	0	0	0	0	2		0
Oklahoma:										
Oklahoma.....	0	2	3	0	0	0	0	0	2	1
Texas:										
Dallas.....	2	8	3	0	0	0	0	3	2	4
Galveston.....	0	1	1	0	0	0	0	2	1	0
Houston.....		2	5	0	0	0		1	1	1
San Antonio.....		0	3	0	0	0		2	0	0
MOUNTAIN.										
Montana:										
Billings.....	0	0	2	0	0	0	0	0	1	0
Great Falls.....	0	1	1	0	0	0	0	0	1	2
Helena.....	0	0	2	0	0	0	0	1	0	0
Missoula.....	0	0	0	0	0	0	0	1	0	0
Idaho:										
Boise.....	0	1	0	0	0	0	0	0	1	2
Colorado:										
Denver.....	3	14	7	0	1	2	0	6	4	3
Pueblo.....	0	4	1	0	0	0	1	1	1	4
New Mexico:										
Albuquerque.....		1	0	0	0	0		0	0	0
Utah:										
Salt Lake City..	7	2	5	0	0	1	2	2	3	4
Nevada:										
Reno.....	0	0	0	0	0	0	0	0	1	1
PACIFIC.										
Washington:										
Seattle.....	6	4	13	0		1	7		7	9
Spokane.....	0	2	2	0		1	0		6	3
Tacoma.....	1	3	4	0		0	1		3	3
Oregon:										
Portland.....	5	4	9	0	0	0	4	4	4	4
California:										
Los Angeles.....	2	28	35	3	1	2	2	12	7	13
Sacramento.....	2	2	2	0	0	0	0	0	2	2
San Francisco....	5	16	17	4	0	2	9	8	6	10

City reports for week ended September 27, 1924—Continued.

Division, State, and city	Popula- tion July 1, 1923, estimated.	Smallpox.			Tuberculosis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
NEW ENGLAND.										
Maine:										
Lewiston.....	33, 790	0	0	0	0	0	0	0	0	13
Portland.....	73, 129	0	0	0	3	1	3	0	0	13
New Hampshire:										
Concord.....	22, 408	0	0	0	0	1	0	0	0	12
Vermont:										
Barre.....	10, 008	0	0	0	0	0	0	0	2	1
Burlington.....	23, 613	0	0	0	0	0	0	0	1	7
Massachusetts:										
Boston.....	770, 400	0	0	0	16	6	1	0	-----	184
Fall River.....	120, 912	0	0	0	2	2	0	0	2	29
Springfield.....	144, 227	0	0	0	2	1	0	0	1	34
Worcester.....	191, 927	0	0	0	0	1	0	0	0	28
Rhode Island:										
Pawtucket.....	68, 799	0	0	0	0	0	1	0	0	16
Providence.....	242, 378	0	0	0	5	2	3	1	1	53
Connecticut:										
Bridgeport.....	143, 555	0	0	0	2	1	0	0	1	23
Hartford.....	138, 036	0	0	0	1	2	2	0	7	14
New Haven.....	172, 967	0	0	0	0	3	1	0	2	32
MIDDLE ATLANTIC.										
New York:										
Buffalo.....	536, 718	0	0	0	11	3	1	2	18	142
New York.....	5, 927, 625	0	0	0	87	40	35	5	167	1, 138
Rochester.....	317, 867	0	2	0	0	2	2	0	-----	51
Syracuse.....	184, 511	0	0	0	1	2	0	0	0	39
New Jersey:										
Camden.....	124, 157	0	3	0	0	2	1	0	0	28
Newark.....	438, 699	0	0	0	6	4	3	1	41	78
Trenton.....	127, 390	0	0	0	0	1	0	0	7	31
Pennsylvania:										
Philadelphia.....	1, 922, 788	0	0	0	40	15	11	0	68	410
Pittsburgh.....	613, 442	0	1	0	6	4	3	0	7	142
Reading.....	110, 917	0	0	0	0	1	3	0	10	17
Scranton.....	140, 636	0	0	0	3	1	2	0	8	-----
EAST NORTH CENTRAL.										
Ohio:										
Cincinnati.....	406, 312	0	0	0	11	2	2	0	0	112
Cleveland.....	888, 519	1	0	0	13	3	11	0	22	143
Columbus.....	261, 082	0	0	0	2	1	1	0	0	69
Toledo.....	268, 338	1	0	0	5	2	4	1	7	63
Indiana:										
Fort Wayne.....	93, 573	1	1	0	0	1	1	0	0	34
Indianapolis.....	342, 718	1	6	0	4	3	1	0	-----	83
South Bend.....	76, 709	0	0	0	0	0	0	0	0	10
Terre Haute.....	68, 939	0	0	0	0	1	0	1	-----	25
Illinois:										
Chicago.....	2, 886, 121	1	6	0	42	8	10	0	113	578
Cicero.....	55, 968	0	0	0	0	0	0	0	4	9
Peoria.....	79, 675	0	0	0	1	0	1	0	0	20
Springfield.....	61, 833	0	0	0	0	2	6	0	-----	18
Michigan:										
Detroit.....	995, 668	2	6	0	23	7	6	1	68	223
Flint.....	117, 968	0	2	1	2	1	0	0	4	20
Grand Rapids.....	145, 947	1	0	0	1	1	0	0	2	28
Saginaw.....	69, 754	0	0	0	0	1	0	0	0	17
Wisconsin:										
Madison.....	42, 519	0	0	0	1	1	0	0	3	5
Milwaukee.....	484, 595	1	0	0	0	1	0	0	13	90
Racine.....	64, 393	0	0	0	0	0	1	0	0	10
Superior.....	139, 671	0	0	0	1	0	0	0	0	8

¹ Population Jan. 1, 1920.² Pulmonary only.

City reports for week ended September 27, 1924—Continued.

Division, State, and city.	Popu- lation July 1, 1923, estimated.	Smallpox.			Tuberculosis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
WEST NORTH-CENTRAL.										
Minnesota:										
Duluth.....	106,289	0	0	0	1	0	0	0	3	16
Minneapolis.....	460,125	2	15	1	7	1	4	1	2	82
St. Paul.....	241,891	2	2	0	2	2	1	0		55
Iowa:										
Davenport.....	61,262	1	1			0	0		0	
Des Moines.....	140,923	1	0			0	0		0	
Sioux City.....	79,662	0	0			1	0		0	
Waterloo.....	39,667	0	0			0	1		0	
Missouri:										
Kansas City.....	351,819	1	0	0	3	2	3	1	2	72
St. Joseph.....	78,232	0	0	0	0	0	0	0	0	30
St. Louis.....	863,853	0	0	0	9	6	5	4	1	175
North Dakota:										
Fargo.....	24,841	0				0				
Grand Forks.....	14,547	0	0			0	0		0	
South Dakota:										
Aberdeen.....	15,829		0			0				
Sioux Falls.....	29,206	0	0	0	0	0	0	0	0	7
Nebraska:										
Lincoln.....	58,761	1	1	0	1	0	0	0	0	13
Omaha.....	204,382	1	1	0	0	2	1	0	0	68
Kansas:										
Topeka.....	52,555	0	0	0	2	1	0	0	1	14
Wichita.....	79,261	0	0	0	0	2	2	0	8	20
SOUTH ATLANTIC.										
Delaware:										
Wilmington.....	117,728	0	0	0	1	2	4	1	0	29
Maryland:										
Baltimore.....	773,580	0	0	0	12	12	13	2	54	162
Cumberland.....	32,361	0	0	0	0	1	1	0		7
Frederick.....	11,301	0	0	0	0	0	0	0		4
District of Columbia:										
Washington.....	1,437,571	0	1	0	13	5	3	0	12	109
Virginia:										
Lynchburg.....	30,277	0	0	0	0	1	0	0	3	14
Norfolk.....	159,089	0	0	0	3	1	1	0	0	
Richmond.....	181,044	0	0	0	1	2	2	0	2	36
Rosnoke.....	55,502	0	0	0	0	1	2	0	0	9
West Virginia:										
Charleston.....	45,597	0	0	0	2	0	3	2	0	22
Huntington.....	57,918	0	0			0	0		0	
Wheeling.....	156,268	0	0	0	1	1	11	3	0	21
North Carolina:										
Raleigh.....	29,171	0	1	0	0	1	0	0	3	7
Wilmington.....	35,719	0	0	0	0	0	0	0	0	9
Winston-Salem.....	56,230	0	0	0	2	1	1	0	0	17
South Carolina:										
Charleston.....	71,245	0	0	0	2	2	5	0	0	21
Columbia.....	39,688	0	0	0	1	1	0	0	0	18
Greenville.....	25,789	0	1	0	0	0	0	0	1	2
Georgia:										
Atlanta.....	222,963	1	0	0	8	4	0	1		65
Brunswick.....	15,937	0	0	0	1	0	0	0		5
Savannah.....	89,448	0	0	0	4	1	4	0	0	34
Florida:										
St. Petersburg.....	24,403	0	0	0	0	0	0	1	0	7
Tampa.....	56,050	0	0	0	2	1	0	0		19
EAST SOUTH CENTRAL.										
Kentucky:										
Covington.....	57,877	0	0	0	0	0	0	0	0	11
Lexington.....	43,673	0	0	0	1	1	0	0	2	15
Louisville.....	257,671	0	0	0	3	5	7	0	3	79

1 Population Jan. 1, 1920.

City reports for week ended September 27, 1924—Continued.

Division, State, and city.	Popula- tion July 1, 1923, estimated.	Smallpox.			Tuberculosis, deaths re- ported.	Typhoid fever.			Whooping cough, cases reported.	Deaths, all causes.
		Cases, estimated expectancy.	Cases reported.	Deaths reported.		Cases, estimated expectancy.	Cases reported.	Deaths reported.		
EAST SOUTH CENTRAL—continued.										
Tennessee:										
Memphis.....	170,067	0	0	0	4	1	17	2	0	42
Nashville.....	121,128	0	0	0	1	4	9	2		29
Alabama:										
Birmingham.....	195,901	0	5	0	7	4	16	1	2	55
Mobile.....	63,858	0	0	0	1	1	2	0	0	16
Montgomery.....	45,383	0	0	0	0	0	0	0	1	9
WEST SOUTH CENTRAL.										
Arkansas:										
Fort Smith.....	30,635	0	0			1	0		0	
Little Rock.....	70,916	0	0	0	2	1	2	0	0	
Louisiana:										
New Orleans.....	404,575	0	0	0	8	4	6	1	2	124
Shreveport.....	54,590		0	0	1		0	1	0	30
Oklahoma:										
Oklahoma.....	101,150	0	0	0	0	2	2	0	0	17
Texas:										
Dallas.....	177,274	0	0	0	4	2	2	0	11	45
Galveston.....	46,877	0	0	0	0	0	1	0	0	15
Houston.....	154,970	0	1	0	2	0	5	1		37
San Antonio.....	184,727	0	0	0	8	0	1	0		41
MOUNTAIN.										
Montana:										
Billings.....	16,927	1	0	0	0	0	0	0	2	9
Great Falls.....	27,787	0	0	0	0	0	0	0	3	6
Helena.....	¹ 12,037	0	0	0	0	0	0	0	0	8
Missoula.....	¹ 12,668	1	1	0	0	1	0	0	0	4
Idaho:										
Boise.....	22,806	0	0	0	0	0	0	0	0	2
Colorado:										
Denver.....	272,031	1	0	0	13	5	4	1	9	84
Pueblo.....	43,519	1	0	0	2	2	0	0	0	9
New Mexico:										
Albuquerque.....	16,648	0	0	0	2	3	2	0		5
Utah:										
Salt Lake City.....	126,241	1	0	0	1	2	14	0	0	30
Nevada:										
Reno.....	12,429	0	0	0	0	0	0	0	0	4
PACIFIC.										
Washington:										
Seattle.....	¹ 315,685	1	1			1	2		1	
Spokane.....	104,573	2	2			1	3		3	
Tacoma.....	101,731	0	0			0	1		0	
Oregon:										
Portland.....	273,621	3	1	0	3	2	2	0	4	
California:										
Los Angeles.....	666,853	1	15	0	19	6	5	1	8	183
Sacramento.....	69,950	0	4	0	0	1	1	0	0	13
San Francisco.....	539,038	1	0	0	6	1	7	1	0	130

¹ Population Jan. 1, 1920.

City reports for week ended September 27, 1924—Continued.

Division, State, and city.	Cerebro-spinal meningitis.		Dengue.		Lethargic encephalitis.		Pellagra.		Polio-myelitis (infantile paralysis).			Typhus fever.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases, est. expectancy.	Cases.	Deaths.	Cases.	Deaths.
NEW ENGLAND.													
Massachusetts:													
Boston.....	0	0	0	0	1	0	0	0	2	4	1	0	0
Fall River.....	0	0	0	0	0	0	0	0	0	1	0	0	0
Springfield.....	1	0	0	0	0	0	0	0	0	0	0	0	0
Worcester.....	0	0	0	0	0	0	0	0	0	1	0	0	0
Connecticut:													
Hartford.....	0	0	0	0	0	0	0	0	0	1	0	0	0
MIDDLE ATLANTIC.													
New York:													
Buffalo.....	0	0	0	0	1	0	0	0	0	1	0	0	0
New York.....	2	0	0	0	7	6	0	0	15	23	2	1	0
Rochester.....	1	0	0	0	0	0	0	0	1	1	0	0	0
Syracuse.....	0	0	0	0	0	0	0	0	1	4	0	0	0
New Jersey:													
Trenton.....	0	0	0	0	0	0	0	0	0	2	1	0	0
Pennsylvania:													
Philadelphia.....	0	1	0	0	1	0	0	0	1	5	1	0	0
Pittsburgh.....	0	0	0	0	0	0	0	0	0	0	2	0	0
EAST NORTH CENTRAL.													
Ohio:													
Cleveland.....	2	0	0	0	0	0	0	0	1	0	0	0	0
Columbus.....	0	0	0	0	0	0	0	0	0	1	1	0	0
Toledo.....	0	0	0	0	0	0	0	0	0	1	0	0	0
Illinois:													
Chicago.....	1	0	0	0	1	0	0	0	4	2	0	0	0
Peoria.....	0	0	0	0	0	0	0	0	0	0	1	0	0
Michigan:													
Detroit.....	1	1	0	0	3	0	0	0	1	21	6	0	0
Flint.....	0	0	0	0	0	0	0	0	1	2	0	0	0
Grand Rapids.....	0	0	0	0	0	0	0	0	0	3	0	0	0
Saginaw.....	0	1	0	0	0	0	0	0	0	0	0	0	0
WEST NORTH CENTRAL.													
Minnesota:													
St. Paul.....	0	0	0	0	0	0	0	0	1	2	1	0	0
Missouri:													
Kansas City.....	0	0	0	0	0	0	0	0	0	1	0	0	0
St. Louis.....	0	0	0	0	0	0	0	0	1	2	0	0	0
SOUTH ATLANTIC.													
Delaware:													
Wilmington.....	0	0	0	0	0	0	0	0	1	1	1	0	0
Maryland:													
Baltimore.....	1	0	0	0	0	0	1	0	1	6	0	0	0
South Carolina:													
Columbia.....	0	0	0	0	0	0	0	1	0	0	0	0	0
Georgia:													
Atlanta.....	0	0	0	0	0	0	0	2	0	0	0	0	0
Savannah.....	0	0	1	0	0	0	0	0	0	0	0	0	0
Florida:													
St. Petersburg.....	0	0	3	0	0	0	0	0	0	0	0	0	0
WEST SOUTH CENTRAL.													
Louisiana:													
New Orleans.....	0	0	0	0	1	1	0	0	0	0	0	0	0
Shreveport.....	0	0	0	0	0	0	0	1	0	0	0	0	0
Texas:													
Houston.....	0	0	0	0	0	0	1	0	0	0	0	0	0
MOUNTAIN.													
Montana:													
Billings.....	0	0	0	0	0	0	0	0	0	0	1	0	0
Helena.....	0	1	0	0	0	0	0	0	0	1	0	0	0
Missoula.....	0	0	0	0	0	0	0	0	0	10	0	0	0
PACIFIC.													
Washington:													
Seattle.....	0	0	0	0	0	0	0	0	0	19	0	0	0
Spokane.....	0	0	0	0	0	0	0	0	0	9	0	0	0
Tacoma.....	0	0	0	0	0	0	0	0	0	30	0	0	0
California:													
Los Angeles.....	1	0	0	0	1	0	0	0	0	2	0	0	0

The following table gives a summary of the reports from 105 cities for the 10-week period ended September 27, 1924. The cities included in this table are those whose reports have been published for all 10 weeks in the Public Health Reports. Eight of these cities did not report deaths. The aggregate population of the cities reporting cases was estimated at nearly 29,000,000 on July 1, 1923, which is the latest date for which estimates are available. The cities reporting deaths had more than 28,000,000 population on that date. The number of cities included in each group and the aggregate population are shown in a separate table below.

Summary of weekly reports from cities, July 20 to September 27, 1924.

DIPHTHERIA CASES.

	1924, week ended—									
	July 26.	Aug. 2.	Aug. 9.	Aug. 16.	Aug. 23.	Aug. 30.	Sept. 6.	Sept. 13.	Sept. 20.	Sept. 27.
Total.....	560	477	538	456	494	480	455	521	649	779
New England.....	59	47	60	47	48	35	49	135	56	55
Middle Atlantic.....	222	188	197	149	189	167	139	139	177	255
East North Central.....	99	83	103	91	88	69	85	88	125	151
West North Central.....	37	40	43	38	49	50	47	91	90	92
South Atlantic.....	21	28	22	40	39	68	70	73	94	89
East South Central.....	6	3	6	7	9	8	7	7	13	22
West South Central.....	15	12	7	13	15	11	10	18	13	24
Mountain.....	14	5	10	22	14	16	19	12	15	18
Pacific.....	87	71	90	49	43	56	29	58	66	73

MEASLES CASES.

Total.....	528	406	253	178	136	121	109	102	87	104
New England.....	59	41	11	23	23	26	11	14	9	6
Middle Atlantic.....	204	160	97	65	46	41	56	40	36	3
East North Central.....	155	126	75	51	37	25	18	25	28	1
West North Central.....	22	16	11	7	4	9	3	4	2	2
South Atlantic.....	43	34	36	16	10	11	11	11	8	3
East South Central.....	6	3	2	4	5	1	1	1	0	7
West South Central.....	5	3	0	1	1	0	1	0	1	29
Mountain.....	6	7	3	1	1	4	2	4	0	38
Pacific.....	28	16	18	10	9	4	6	3	13	15

SCARLET FEVER CASES.

Total.....	340	369	360	248	291	307	253	359	462	586
New England.....	38	40	36	24	28	29	35	133	38	46
Middle Atlantic.....	90	73	85	49	55	69	50	48	97	128
East North Central.....	90	126	108	57	74	74	68	97	99	123
West North Central.....	65	65	61	61	75	58	48	104	142	172
South Atlantic.....	15	20	21	12	21	26	22	24	32	36
East South Central.....	7	2	3	10	13	9	2	6	14	17
West South Central.....	9	11	5	9	5	5	5	10	10	8
Mountain.....	5	7	12	5	4	17	3	10	9	16
Pacific.....	21	25	29	21	16	20	20	27	21	40

¹ Figures for Barre, Vt., estimated. Reports not received at time of going to press.

² Figures for Cleveland, Ohio, estimated.

³ Figures for Superior, Wis., estimated.

⁴ Figures for Fargo, N. Dak., estimated.

⁵ Figures for Raleigh, N. C., estimated.

⁶ Figures for Wilmington, Del., and Tampa, Fla., estimated.

⁷ Figures for Seattle, Spokane, and Tacoma, Wash., estimated.

Summary of weekly reports from cities, July 20 to September 27, 1924—Continued.

SMALLPOX CASES.

	1924, week ended—									
	July 26.	Aug. 2.	Aug. 9.	Aug. 16.	Aug. 23.	Aug. 30.	Sept. 6.	Sept. 13.	Sept. 20.	Sept. 27.
Total	108	116	106	93	71	88	66	64	57	83
New England.....	0	0	0	0	0	0	0	¹ 0	0	0
Middle Atlantic.....	9	9	7	8	3	11	4	2	3	⁶
East North Central.....	36	²⁸	23	16	20	² 12	9	16	³ 14	²⁷
West North Central.....	13	18	15	28	5	25	9	11	23	⁴ 18
South Atlantic.....	3	3	4	6	4	⁵ 2	5	⁶ 2	1	3
East South Central.....	13	16	8	13	14	13	16	3	8	5
West South Central.....	0	2	0	0	1	1	1	4	3	1
Mountain.....	2	2	1	1	2	2	0	0	2	1
Pacific.....	32	38	48	21	22	22	22	26	⁷ 33	22

TYPHOID FEVER CASES.

Total	191	191	250	232	238	220	199	229	197	281
New England.....	6	4	6	15	8	12	6	¹ 9	12	11
Middle Atlantic.....	59	59	63	63	65	41	50	59	54	59
East North Central.....	17	20	30	29	22	² 22	27	31	³ 25	39
West North Central.....	11	9	22	22	17	28	11	19	21	⁴ 17
South Atlantic.....	25	31	44	37	35	⁵ 34	36	⁶ 47	32	50
East South Central.....	29	36	40	24	49	48	32	25	15	51
West South Central.....	22	17	19	26	29	25	10	15	15	17
Mountain.....	7	4	5	9	0	7	13	9	8	18
Pacific.....	15	11	21	7	13	3	14	15	⁷ 15	19

INFLUENZA DEATHS.

Total	3	13	8	8	7	13	4	6	7	18
New England.....	1	2	0	0	0	1	0	¹ 0	1	1
Middle Atlantic.....	0	6	3	4	1	4	3	2	1	5
East North Central.....	0	0	2	2	2	³ 3	0	3	³ 0	2
West North Central.....	1	2	0	0	0	0	0	0	1	⁴ 1
South Atlantic.....	1	1	2	0	3	⁵ 2	1	⁶ 1	1	3
East South Central.....	0	1	0	0	0	1	0	0	0	3
West South Central.....	0	0	1	0	1	2	0	0	3	1
Mountain.....	0	0	0	0	0	0	0	0	0	1
Pacific.....	0	1	0	2	0	0	0	0	0	1

PNEUMONIA DEATHS.

Total	304	292	269	271	251	315	313	306	308	371
New England.....	16	17	14	14	12	19	14	¹ 16	12	20
Middle Atlantic.....	126	131	121	115	102	136	152	120	125	152
East North Central.....	58	50	51	48	48	² 55	53	53	³ 67	82
West North Central.....	13	14	9	17	13	18	9	23	22	⁴ 17
South Atlantic.....	35	36	29	32	38	⁵ 34	32	⁶ 37	37	42
East South Central.....	15	12	10	10	5	12	17	15	9	14
West South Central.....	20	11	14	12	10	11	8	10	13	13
Mountain.....	7	4	8	7	10	13	11	10	8	11
Pacific.....	14	17	13	16	13	17	17	22	15	20

¹ Figures for Barre, Vt., estimated. Reports not received at time of going to press.² Figures for Cleveland, Ohio, estimated.³ Figures for Superior, Wis., estimated.⁴ Figures for Fargo, N. Dak., estimated.⁵ Figures for Raleigh, N. C., estimated.⁶ Figures for Wilmington, Del., and Tampa, Fla., estimated.⁷ Figures for Seattle, Spokane, and Tacoma, Wash., estimated.

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	105	97	28,898,350	28,140,934
New England.....	12	12	2,098,746	2,098,746
Middle Atlantic.....	10	10	10,304,114	10,304,114
East North Central.....	17	17	7,032,535	7,032,535
West North Central.....	14	11	2,515,330	2,381,454
South Atlantic.....	22	22	2,566,901	2,566,901
East South Central.....	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	3	1,797,830	1,275,841

FOREIGN AND INSULAR.

BOLIVIA.

Communicable Diseases—La Paz—August, 1924.

During the month of August, 1924, communicable diseases were reported at La Paz, Bolivia, as follows:

Disease.	Cases.	Deaths.	Disease.	Cases.	Deaths.
Cerebrospinal meningitis.....	2	-----	Scarlet fever.....	5	3
Dysentery.....	3	5	Smallpox.....	16	9
Influenza.....	4	7	Tuberculosis.....	4	5
Measles.....	1	4	Typhoid fever.....	6	4

Total number of deaths from all causes, 234. Population, estimated, 100,000. Information as to new cases, received from General Hospital; statement of deaths received from cemetery authorities.

CANADA.

Communicable Diseases—Ontario—August 31–September 27, 1924 (Comparative).

During the four-week period ended September 27, 1924, communicable diseases were notified in the Province of Ontario, Canada, as follows:

Disease.	Aug. 31–Sept. 27, 1924.		Sept. 2–29, 1923.	
	Cases.	Deaths.	Cases.	Deaths.
Cerebrospinal meningitis.....	7	7	2	2
Chancroid.....	-----	-----	6	-----
Chicken pox.....	106	-----	-----	-----
Diphtheria.....	188	6	245	17
Dysentery.....	-----	8	(1)	-----
German measles.....	6	-----	-----	-----
Gonorrhea.....	175	-----	222	-----
Influenza.....	6	1	13	7
Lethargic encephalitis.....	5	3	(1)	-----
Measles.....	233	-----	95	-----
Mumps.....	100	-----	-----	-----
Paratyphoid fever.....	5	-----	(1)	-----
Pneumonia.....	-----	83	-----	93
Poliomyelitis (infantile paralysis).....	35	2	6	2
Scarlet fever.....	195	1	270	6
Septic sore throat.....	6	-----	(1)	-----
Smallpox.....	13	-----	29	-----
Syphilis.....	86	-----	173	-----
Tetanus.....	-----	2	(1)	-----
Tuberculosis.....	¹ 119	61	169	74
Typhoid fever.....	114	15	131	25
Whooping cough.....	225	5	234	8

Population, 2,182,947.

¹ Not reported in 1923.

² Only 40 per cent reported.

CUBA.

Communicable Diseases—Habana.

Communicable diseases have been notified at Habana, Cuba, as follows:

Disease	Sept. 1-10, 1924.		Remain- ing under treatment Sept. 10, 1924.
	New cases.	Deaths.	
Chicken pox.....	1	-----	-----
Diphtheria.....	1	-----	2
Leprosy.....	-----	-----	15
Malaria.....	8	-----	137
Measles.....	3	-----	1
Paratyphoid fever.....	-----	-----	2
Scarlet fever.....	2	-----	4
Typhoid fever.....	28	3	129

¹ From the interior, 15.

² From the interior, 40.

Typhoid fever—Santiago.

Information dated September 30, 1924, shows the presence of typhoid fever at Santiago, Cuba, with four reported cases during the week ended September 27 and a number of unreported cases believed to exist in the city.

EGYPT.

Status of Plague.

Plague has been reported in Egypt as follows: Week ended August 26, 1924, two cases, of which one case was notified at Port Said. Week ended September 2, 1924, five cases occurring in three districts.

Summary.—Total number of cases reported in Egypt from January 1 to September 2, 1924, 354, as against 1,337 cases reported for the corresponding period of the year 1923.

GREAT BRITAIN.

Typhus Fever—St. Helens.¹

An additional case of typhus fever was reported at St. Helens, England, Great Britain, September 20, 1924. The case was stated to have been under observation in hospital since August 31, 1924. Total number of cases reported to date, eight, with four deaths.

HAWAII.

Plague-Infected Rodents—Vicinity of Honokaa.

During the period August 19 to September 10, 1924, five plague-infected rodents were reported found in the vicinity of Honokaa, Hawaii. Of these, two were found dead September 6 and 8, respectively, and three trapped August 19 and September 6 and 10, respectively.

¹ See Public Health Reports, Sept. 19, 1924, p. 2447, and Sept. 26, 1924, p. 2493.

JAPAN.**Typhoid Fever—Tokyo.¹**

Typhoid fever has been reported at Tokyo, Japan, as follows: Week ended August 16, 1924, 162 cases with 25 deaths; two weeks ended August 30, 1924, 353 cases with 52 deaths. Present officially estimated population, 347,608, including 1,189 foreigners.

LATVIA.**Communicable Diseases—July, 1924.**

During the month of July, 1924, communicable diseases were reported in the Republic of Latvia, as follows:

Disease.	Cases.	Disease.	Cases.
Anthrax.....	1	Mumps.....	14
Cerebrospinal meningitis.....	5	Scarlet fever.....	82
Diphtheria.....	36	Smallpox.....	1
Dysentery.....	33	Typhoid fever.....	227
Malaria.....	2	Typhus fever.....	9
Measles.....	72	Whooping cough.....	41

Population, 1,900,000.

POLAND.**Communicable Diseases—July 27–August 2, 1924.**

Communicable diseases were reported during the week ended August 2, 1924, in Poland, as follows:

Disease.	Cases.	Deaths.	Districts showing greatest number of deaths.
Cerebrospinal meningitis.....	5	4	Lodz.
Diphtheria.....	70	7	Volhynia.
Dysentery.....	417	55	Stanislawow.
Malaria.....	60		
Measles.....	97	1	Warsaw.
Relapsing fever.....	3		
Scarlet fever.....	247	26	Lwow.
Smallpox.....	8		
Typhoid fever.....	280	31	Lodz.
Typhus fever.....	67	4	Warsaw.
Whooping cough.....	75	14	Lwow.

SPAIN.**Mortality from Certain Diseases—Barcelona—July, 1924.**

During the month of July, 1924, mortality from certain causes was reported in the Province of Barcelona, Spain, as follows:

Disease.	Deaths.	Disease.	Deaths.
Bronchitis.....	48	Pneumonia.....	41
Cancer.....	25	Tuberculosis.....	23
Diphtheria.....	9	Typhoid fever.....	68
Measles.....	46	Whooping cough.....	4
Meningitis.....	118		

Population, 1,054,541. Total deaths from all causes, 2,308.

¹ Public Health Reports, Sept. 19, 1924, p. 2447; Sept. 26, 1924, p. 2493.

SUMATRA.

Malaria—Batoe Bahra—May, 1924.¹

During the month of May, 1924, 212 cases of malaria, with 24 fatalities, were reported at Batoe Bahra, Island of Sumatra.

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 October 17, 1924.²

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Shanghai.....	Aug. 2-Sept. 6.....	1		
India:				
Bombay.....	Aug. 17-23.....	7	4	
Calcutta.....	Aug. 24-30.....	8	7	
Madras.....	Aug. 31-Sept. 6.....	1	1	
Rangoon.....	Aug. 17-23.....	1		
Siam:				
Bangkok.....	Aug. 10-16.....	1		

PLAGUE.

Egypt.....				Aug. 20-Sept. 5, 1924: Cases, 7. Jan. 1-Sept. 5, 1924: Cases, 354. Corresponding period, year 1923, 1,337 cases.
Port Said.....	Aug. 20-26.....	1		
Hawaii:				
Honokaa.....				Aug. 19-Sept. 10, 1924: Five plague-infected rodents found in vicinity.
India:				
Bombay.....	Aug. 17-23.....	8	4	
Karachi.....	Sept. 2-8.....	3	3	
Madras Presidency.....	Aug. 31-Sept. 6.....	14	6	
Rangoon.....	Aug. 17-23.....	26	24	
Syria:				
Beirut.....	Aug. 11-20.....	2		

SMALLPOX.

Bolivia:				
La Paz.....	Aug. 1-31.....	16	9	
British East Africa:				
Kenya—				
Tanganyika Territory.....	Aug. 17-23.....	1		
British South Africa:				
Northern Rhodesia.....	Aug. 12-18.....	2		
Canada:				
British Columbia—				
Vancouver.....	Sept. 14-20.....	7		
Ontario.....				Aug. 31-Sept. 27, 1924: Cases, 13.
China:				
Amoy.....	Aug. 23-29.....			Present.
Chungking.....	Aug. 24-30.....			Do.
Dominican Republic:				
La Romana.....	Do.....	2		
Egypt:				
Cairo.....	June 18-24.....	6	3	
Do.....	June 25-July 1.....	7		
Port Said.....	Sept. 3-9.....	1		
Gibraltar.....	Sept. 8-21.....	4		

¹ See Public Health Reports, Jan. 18, 1924, p. 134; Feb. 15, 1924, p. 320; and Sept. 26, 1924, p. 2495.

² 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 October 17, 1924—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Aug. 17-23.....	9	7	
Calcutta.....	Aug. 24-30.....	3	3	
Karachi.....	Sept. 2-8.....	1	1	
Madras.....	Aug. 30-Sept. 6.....	14	4	
Rangoon.....	Aug. 17-23.....	5	3	
Java:				
East Java— Soerabaya.....	Aug. 3-9.....	101	21	
West Java— Batavia.....	Aug. 16-22.....	5		Province. July 1-31, 1924: 1 case.
Latvia.....				
Mexico:				
Vera Cruz.....	Sept. 21-27.....		1	
Poland.....				July 21-27, 1924: Cases, 8.
Portugal:				
Lisbon.....	Aug. 11-Sept. 6.....	5	1	
Switzerland:				
Berne.....	Aug. 30-Sept. 6.....	1		
Tunis:				
Tunis.....	Sept. 16-22.....	1		
Union of South Africa:				
Cape Province.....				Aug. 17-23, 1924: Outbreaks.
Transvaal.....				Do.

TYPHUS FEVER.

Chile:				
Talcahuano.....	Aug. 31-Sept. 6.....		2	Sept. 6, 1924: About 31 cases in vicinity.
Valparaiso.....	Do.....		2	
Egypt:				
Alexandria.....	Aug. 20-26.....	1	1	
Cairo.....	June 18-24.....	1	1	
Do.....	June 25-July 1.....	1		
Great Britain:				
St. Helens.....	Sept. 20.....	1		Case was under observation in hospital from Aug. 31, 1924.
Palestine:				
Jerusalem.....	Sept. 2-8.....	1		
Safad.....	Aug. 26-Sept.....	1		
Poland.....				July 21-27, 1924: Cases, 67; deaths, 4.
Union of South Africa:				
Cape Province.....				Aug. 17-23, 1924: Outbreaks.
Transvaal.....				Do.

Reports Received from June 28 to October 10, 1924.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....				Apr. 20-June 28, 1924: Cases, 81,035; deaths, 56,740.
Do.....				June 29-Aug. 9, 1924: Cases, 47,419; deaths, 27,794.
Bombay.....	May 4-10.....	1		
Do.....	June 29-Aug. 16.....	18	10	
Calcutta.....	May 11-June 23.....	293	259	
Do.....	June 29-Aug. 30.....	135	116	
Madras.....	June 1-21.....	7	6	
Do.....	June 29-Aug. 23.....	24	14	
Rangoon.....	May 11-June 23.....	98	76	
Do.....	June 29-Aug. 9.....	23	22	

¹ 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 28 to October 10, 1924—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China.....				Jan. 1-May 31, 1924: Cases, 78; deaths, 37. Corresponding period 1923: Cases, 126; deaths, 37. Including 100 square kilometers of surrounding country.
Saigon.....	Apr. 27-June 28.....	6	4	Do.
Do.....	June 29-Aug. 9.....	6	5	Do.
Persia:				
Bushire.....	June 1-30.....	1	1	
Philippine Islands.....				June 15-28, 1924: 32 cases, 22 deaths, including suspects. June 29-July 5, 1924: 5 cases, 4 deaths. Suspect. Occurring in a non-resident.
Manila.....	June 22-28.....	1		
Do.....	July 6-12.....	1	1	
Province—				
Batangas.....	July 1-12.....	4	3	
Bulacan.....	June 21.....	1	1	
Do.....	June 28-July 4.....	1		
Cagayan.....	Mar. 30-Apr. 5.....	1	1	
Laguna.....	May 18-24.....	1	1	
San Pablo.....	July 13-19.....	1	1	
Rizal.....	July 3.....	1	1	
Santo Tomas.....	July 6-12.....	1	1	
Russia:				
Rostov-on-Don.....	Aug. 5-7.....	3		
Siam:				
Bangkok.....	May 4-June 28.....	21	18	
Do.....	June 29-Aug. 2.....	7	4	
Straits Settlements:				
Penang.....	June 1-7.....	1	1	
Singapore.....	June 15-28.....	9	6	
Do.....	June 29-July 5.....	2	1	
On vessel:				
S. S. Argalia.....		1		At Basscin, Lower Burma, India. Case in European member of crew. Case removed to hospital. Vessel left May 16, 1924, arrived June 8 at Durban, South Africa; left Durban June 10 for Trinidad and Cuba.

PLAGUE.

Algeria:				
Mostaganem.....	July 21-28.....	4		Seaport.
Argentina:				
Chaco Territory.....				April, 1924: Cases reported.
Brazil:				
Porto Alegre.....	July 6-12.....		1	
British East Africa:				
Kenya—				
Kisumu.....	July 13-Aug. 16.....	2		
Tanganyika Territory.....	Feb. 24-June 7.....	1	2	
Do.....	June 26-July 3.....	3	2	
Uganda.....				May 1-31, 1924: Cases, 28, deaths, 23. June 1-30, 1924: Cases, 97; deaths, 84.
Entebbe.....	Feb. 1-Apr. 30.....	59	54	
Canary Islands:				
Teneriffe—				
La Laguna.....	June 20.....	1		
Celebes:				
Macassar and Menando.....	July 27-Aug. 2.....			1 plague rat.
Ceylon:				
Colombo.....	May 11-June 28.....	11	7	10 plague rodents.
Do.....	June 29-Aug. 16.....	17	15	Plague-infected rodents, 17.
Chile:				
Antofagasta.....	June 1-16.....	4		
China:				
Amoy.....	June 15-28.....		6	
Do.....	June 29-Aug. 9.....		13	
Foochow.....	May 4-June 21.....		25	Cases not reported.
Nanking.....	July 20-Aug. 16.....			Present.

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

Reports Received from June 28 to October 10, 1924—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ecuador:				
Eloy Alfaro.....	May 16-31.....	1	1	Rats taken, 23,717; found infected, 107.
Guayaquil.....	May 16-June 30....	4		
Do.....	July 1-Aug. 31.....	2		Rats taken, 34,185; found plague-infected, 93.
Posorja.....	July 1-15.....	1		
Puna.....	July 16-31.....	1		
Egypt.				July 2-Aug. 5, 1924: Cases, 12. Total, Jan. 1-Aug. 28, 1924—cases, 350; deaths, 177; corresponding period, preceding year—cases, 1,286.
City—				
Alexandria.....		1	1	First case, Apr. 2; last, Apr. 2.
Ismailia.....		1	1	First case, July 6; last, July 6.
Port Said.....		4	2	First case, Apr. 24; last, Aug. 21.
Suez.....		15	8	First case, Jan. 2; last, Aug. 10.
Province—				
Assiout.....		44	35	First case, Apr. 1; last, Aug. 27.
Behera.....		1	1	First case, Aug. 9; last, Aug. 9.
Beni-Suef.....		3	3	First case, June 21; last, June 21.
Charkieh.....		1	1	First case, Jan. 31; last, Jan. 31.
Fayoum.....		106	33	First case, Feb. 18; last, July 18.
Gharbia.....		3	2	First case, Apr. 21; last, Aug. 22.
Ghirga.....		10	3	First case, Jan. 17; last, May 13.
Kaloubiah.....		10	1	First case, Jan. 6; last, May 22.
Kena.....		44	26	First case, Apr. 9; last, May. 17.
Menoufieh.....		49	32	First case, Jan. 2; last, June 28.
Minia.....		58	28	First case, Feb. 5; last, Aug. 1.
Greece:				
Kalamata.....				Reported July 15, 1924: Cases, 29; deaths, 6.
Patras.....	July 7.....	36		
Saloniki.....	July 3-4.....	2		
Hawaii.				July 15, 1924: Near Kukuihaele, Island of Hawaii, 1 plague rat.
India.				Apr. 20-June 23, 1924: Cases, 192,874; deaths, 84,656.
Do.....				June 29-Aug. 9, 1924: Cases, 3,639; deaths, 3,214.
Bombay.....	May 4-June 21.....	50	44	
Do.....	June 29-Aug. 16.....	11	10	
Calcutta.....	May 11-June 14.....	10	10	
Karachi.....	May 18-June 21.....	16	13	
Do.....	Aug. 17-23.....	2	2	
Madras Presidency.....	May 18-31.....	7	2	
Do.....	Aug. 10-16.....	28	19	
Rangoon.....	May 11-June 28.....	77	72	
Do.....	June 29-Aug. 16.....	128	124	
Indo-China.				Jan. 1-May 31, 1924: Cases, 706; deaths, 463.
Saigon.....	May 4-June 28.....	10	2	Including 100 square kilometers of surrounding country.
Do.....	July 20-Aug. 9.....	3	1	Do.
Iraq:				
Bagdad.....	Apr. 20-June 21.....	121	66	
Do.....	June 29-Aug. 9.....	7	4	
Japan.				July 1-31, 1924: 1 case, 1 death.
Shizuoka Prefecture—Higashi.....				Jan.-July, 1924: Cases, 4; deaths, 3.
				To June 20, 1924: Cases, 2; death, 1.
Java:				
East Java—Soerabaya.....	June 18-21.....	14	14	
Madagascar:				
Diego Suarez.....	June 22-July 10.....	14	8	Seaport.
Moramanga.....	June 1-30.....	1	1	Interior.
Tamatave.....	June 6-30.....	5	4	Bubonic.
Tananarive Province.....				Apr. 1-June 30, 1924: Cases, 138; deaths, 128; bubonic, pneumonic, septicemic. July 1-31, 1924: Cases, 53; deaths, 53.
Tananarive Town.....	Apr. 1-June 30.....	12	12	Bubonic and pneumonic.
Do.....	July 1-31.....	5	5	
Other localities	Apr. 1-June 30.....	105	97	
Do.....	July 1-31.....	48	48	Bubonic, pneumonic, and septicemic.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received from June 28 to October 10, 1924—Continued.****PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Persia:				
Abadan.....	May 1-31.....	20	12	
Bander Abbas.....	do.....	11	6	
Bushire.....	do.....	1	1	Landed at quarantine.
Mohammerah.....	do.....	111	78	
Peru.....				May 1-June 30, 1924: Cases, 9; deaths, 6.
Do.....				July 1-31, 1924: Cases, 6; deaths, 3.
Callao.....	June 1-30.....	1		
Do.....	July 1-31.....	2		
Huaral.....	June 1-30.....	1		
Do.....	July 1-31.....	1		
Lima (city).....	May 1-June 30.....	5	5	
Lima (country).....	do.....	1		
Do.....	July 1-31.....		1	
Mollendo.....	do.....	1	1	
Russia:				
Don Cossack Territory—Salsky District.....				Aug. 8, 1924: Reported present in marmots in 6 localities.
Siam:				
Bangkok.....	May 4-June 14.....	3	3	
Do.....	July 13-Aug. 2.....	2	2	
South Nigeria (West Africa):				
Lagos.....	Sept. 8.....			Present.
Syria:				
Beirut.....	July 10-Aug. 10.....	5		
Union of South Africa.....				Apr. 27-June 7, 1924: Cases, 28; deaths, 14. Dec. 16, 1923, to May 31, 1924: Cases, 347; deaths, 208 (white, 51 cases, 26 deaths; native, 269 cases, 182 deaths). July 1-31, 1924: cases, 4; deaths, 2.
Orange Free State.....				May 11-June 14, 1924: Cases, 21; deaths, 9. June 22-28, 1924: Plague-infected mouse found in Kroonstad District.
Smithfield District.....	July 13-19.....	2		In natives on two farms.
On vessel:				
S. S. Amboise.....	July 10.....	1		At Marseilles, France; removed to quarantine station. Case occurred in an Arab fireman embarked at Aden. Vessel left Yokohama, May 30 and Colombo, Ceylon, June 22, 1924.

SMALLPOX.

Arabia:				
Aden.....	July 20-26.....		1	
Bolivia:				
La Paz.....	May 1-June 30.....	10	9	
Do.....	July 1-31.....	5	3	
Brazil:				
Bahia.....	May 18-24.....	1		
Porto Alegre.....	May 18-Aug. 2.....	1	5	
Rio de Janeiro.....	May 18-24.....	2		
Do.....	July 20-Aug. 30.....	5		
British East Africa:				
Kenya—				
Mombasa.....	May 4-31.....	3		
Tanganyika Territory.....	June 15-21.....	1		
Uganda—				
Entebbe.....	Feb. 1-29.....	2		
British South Africa:				
Northern Rhodesia.....	May 6-June 30.....	74	1	Natives.
Do.....	July 1-Aug. 11.....	35		
Canada:				
British Columbia—				
Vancouver.....	June 15-28.....	11		
Do.....	June 29-Sept. 6.....	33		Not including suburbs.
Victoria.....	Aug. 3-9.....	1		
Manitoba—				
Winnipeg.....	July 13-Aug. 1.....	3		

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

Reports Received from June 28 to October 16, 1924—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
New Brunswick—				
Restigouche County	June 1-30	7		
Do.	July 6-Sept. 6	21		
Westmoreland County	Aug. 17-23	1		
Ontario				June 1-30, 1924: Cases, 24. July 1-31: Cases, 7.
Sarnia	July 20-26	1		
Windsor	June 22-28	1		
Quebec—				
Montreal	June 8-14	1		
Do.	Sept. 14-20	1		
Ceylon:				
Colombo	July 6-12	1		
Chile:				
Antofagasta	June 11			Under treatment at lazaretto, 2 cases.
Do.	Aug. 24-30	1		
Valparaiso	June 1-7		1	This report covers the two principal districts of Valparaiso.
China:				
Amoy	May 11-June 28			Present.
Do.	June 29-Aug. 16			Do.
Antung	June 9-29	41	3	
Do.	July 7-13	4		
Chungking	May 11-June 28			Do.
Do.	June 29-Aug. 16			Do.
Foochow	May 18-June 28			Do.
Do.	July 6-Aug. 23			Do.
Hongkong	May 4-June 28	30	24	
Do.	June 29-July 12	3	3	
Manchuria—				
Dairen	May 12-June 28	22	7	
Do.	June 29-Aug. 10	4	1	
Harbin	May 13-June 23	2		
Nanking	May 18-June 28			Do.
Do.	July 6-Aug. 16			Do.
Shanghai	May 25-31		1	
Tientsin	May 4-June 28	11	1	British municipality.
Chosen:				
Fusan	May 1-31	1		
Do.	July 25-31	1		
Colombia:				
Barranquilla	Aug. 3-9		1	
Czechoslovakia				Apr. 1-June 30, 1924: Cases, 7; deaths, 2.
State—				
Bohemia	Apr. 1-June 30	6	2	
Russia	do.	1		
Denmark:				
Copenhagen	May 18-31	3	1	
Egypt:				
City—				
Alexandria	June 4-10	1		
Cairo	Feb. 19-June 17	157	42	
Port Said	June 18-24	1	2	
Do.	June 25-July 8	3		
France:				
Limoges	Apr. 1-May 31		2	
Marseille	May 1-31		1	
Paris	May 21-31	2		
Gibraltar	July 21-Aug. 31	4		
Great Britain:				
England and Wales				May 25-June 28, 1924: Cases, 342; June 29-July 26, 1924: Cases, 213.
Counties—				
Derby	May 25-June 28	159		
Do.	June 29-July 26	66		
Liverpool	Aug. 28	1		Mild. Admitted to port hospital from Lower Bebington District, 2 miles from docks.
London	June 29-July 26	1		
Northumberland	May 25-June 28	61		
Do.	June 29-July 26	39		
Nottingham	May 25-June 28	29		
Do.	June 19-July 26	32		
Sheffield	Aug. 25-31	1		
Yorks (North Riding)	May 25-June 28	54		
Do.	June 29-July 26	27		
Yorks (West Riding)	May 25-June 28	5		
Do.	June 29-July 26	27		

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

Reports Received from June 28 to October 10, 1924—Continued

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Greece:				
Saloniki.....	Apr. 21-June 15...	7	9	
Haiti:				
Port au Prince.....	July 6-12.....	2		Developed at Cape Haitien.
Hungary:				
Budapest.....	July 20-Aug. 2.....	11		
India:				
Do.....				Apr. 20-June 28, 1924: Cases, 28,396; deaths, 6,753. June 29-Aug. 9, 1924: Cases, 7,483; deaths, 1,927.
Bombay.....	May 4-June 28.....	432	299	
Do.....	June 29-Aug. 16.....	160	101	
Calcutta.....	May 11-June 28.....	36	32	
Do.....	July 6-Aug. 23.....	51	36	
Karachi.....	May 18-June 28.....	51	18	
Do.....	June 29-Aug. 30.....	31	13	
Madras.....	May 18-June 28.....	32	10	
Do.....	June 29-Aug. 30.....	103	36	
Rangoon.....	May 11-June 28.....	53	21	
Do.....	June 29-Aug. 16.....	22	8	
Indo-China:				
Saigon.....	Apr. 27-June 28.....	145	79	Jan. 1-May 31, 1924: Cases, 4,700; deaths, 1,353. Including 100 sq. km. of surrounding country.
Do.....	June 29-Aug. 2.....	43	16	Do.
Iraq:				
Bagdad.....	Apr. 20-May 24.....	8	1	
Do.....	July 27-Aug. 2.....	1		
Italy:				
Messina.....	May 26-June 1.....	1		
Jamaica:				
Kingston.....	June 1-28.....	6		June 1-28, 1924: Cases, 141. June 29-Sept. 13, 1924: Cases, 217. (Reported as alastrim.)
Do.....	June 29-Sept. 13.....	20		Reported as alastrim.
Japan:				
Kobe.....	May 26-June 21.....	3		July 1-31, 1924: Cases, 51; deaths, 9. Jan. 1-July 31, 1924: Cases, 1,693; deaths, 264.
Nagoya.....	June 8-14.....	2		
Tokyo.....	do.....	1		
Java:				
East Java—				
Madoera Residency—				
Sampang.....	May 22.....			Epidemic.
Malang.....	May 25-31.....	5	1	
Paseroean Residency.....	July 4-26.....	7		
Soerabaya.....	Apr. 13-June 28.....	501	143	
Do.....	June 29-Aug. 2.....	248	76	Epidemic Aug. 5, 1924.
West Java—				
Batavia.....	May 31-June 27.....	3		
Do.....	July 6-12.....	1		
Latvia.....				Apr. 1-June 30, 1924: Cases, 4.
Mexico:				
Durango.....	June 1-30.....		2	
Guadalajara.....	May 1-June 30.....	9	4	
Do.....	July 8-14.....		1	
Mexico City.....	May 4-June 28.....	96		Including municipalities in Federal district.
Do.....	June 29-Sept. 6.....	62		Do.
Salina Cruz.....	May 25-31.....	1	1	
Tampico.....	June 14-20.....	2		
Do.....	July 1-Aug. 20.....	8	7	
Tuxtepec.....	July 3-18.....	3	1	State of Oaxaca.
Palestine:				
Samaria Province—				June 17-23, 1924: 20 cases in northern districts.
Samak.....	May 27-June 2.....	1		
Paraguay:				
Asuncion.....	June 2.....			Present.
Encarnacion.....	do.....			Many cases reported.
Persia:				
Bushire.....	June 1-30.....	2		
Peru:				
Arequipa.....	Jan. 1-June 30.....		5	
Poland:				
Do.....				Mar. 30-June 28, 1924: Cases, 299; deaths, 27. June 29-July 26, 1924: Cases, 17; deaths, 5.

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

Reports Received from June 28 to October 10, 1924—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Portugal:				
Lisbon.....	May 25-June 28.....	7	2	
Do.....	June 29-Aug. 23.....	15	1	
Oporto.....	May 11-June 28.....	15	16	
Do.....	June 29-Sept. 13.....	21	19	
Russia:				Jan. 1-31, 1924: 2,243 cases.
Moscow.....	July 27-Aug. 9.....	37		
Siam:				
Bangkok.....	Apr. 27-June 14.....	3	5	
Spain:				Year 1923: Cases, 160.
Barcelona.....	July 31-Aug. 6.....		1	
Cadiz.....	June 1-30.....		5	
Do.....	July 1-31.....		28	
Malaga.....	June 29-Sept. 13.....	8	23	
Santander.....	Aug. 24-30.....		4	
Valencia.....	June 8-21.....	3		
Do.....	July 13-19.....	1		
Vigo.....	Aug. 17-23.....		1	
Straits Settlements:				
Singapore.....	May 4-24.....	2	1	
Sumatra:				
Medan.....	Jan. 1-31.....	5		
Switzerland:				
Berne.....	May 25-June 28.....	22		
Do.....	June 29-July 26.....	9		
Lucerne.....	Aug. 1-31.....	12		
Syria:				
Damascus.....	May 28-June 12.....	12		
Do.....	Aug. 7-13.....	6		
Tunis:				
Tunis.....	May 27-June 30.....	17	4	
Do.....	July 1-Sept. 1.....	9	12	
Turkey:				
Constantinople.....	June 1-7.....	1		
Do.....	Aug. 17-23.....	1		
Union of South Africa:				Mar. 1-June 30, 1924: Cases, 167 (white, 15; native, 152), one death. June 29-July 31, 1924: 12 native deaths; 3 white cases.
Cape Province.....	May 4-31.....			Outbreaks.
Do.....	July 20-Aug. 16.....			Do.
East London.....	July 27-Aug. 2.....	1		Do.
Orange Free State.....	May 4-10.....			Do.
Transvaal.....	May 4-31.....			Do.
Do.....	July 20-Aug. 16.....			Do.
Johannesburg.....	July 6-12.....	1		
Yugoslavia:				Do.
Belgrade.....	July 28-Aug. 3.....	1		
On vessels:				
S. S. Karoa.....	May 7.....	1		At Durban, South Africa, from Bombay, India. Vessel left Bombay Apr. 16, 1924. Patient, European.
S. S. Mount Evans.....	July 8.....	1		At Key West, Fla., from Manchester, England.

TYPHUS FEVER.

Algeria:				
Algiers.....	May 1-June 30.....	24	9	Year 1923: Cases, 1,166, of which 27 were in the military population.
Do.....	July 1-31.....	1		
Bolivia:				
La Paz.....do.....		1	
Brazil:				
Porto Alegre.....	June 1-7.....		1	
Bulgaria:				
Sofia.....	Aug. 17-23.....	1		
Chile:				
Antofagasta.....				June 16, 1924: 2 cases in Lazaretto.
Concepcion.....	May 20-26.....		3	
Do.....	July 8-21.....		3	
Iquique.....	June 22-28.....		1	

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

Reports Received from June 28 to October 10, 1924—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile—Continued.				
Talcahuano.....	May 25-31.....	2	—	Aug. 30, 1924: 53 cases reported present.
Do.....	June 29-Aug. 30.....	16	17	
Valparaiso.....	May 25-June 21.....	—	11	
Do.....	June 29-Aug. 30.....	—	27	
China:				
Antung.....	June 2-16.....	6	—	Present.
Chungking.....	May 11-June 14.....	—	—	
Chosen:				
Chemulpo.....	May 1-June 30.....	10	—	
Do.....	July 1-31.....	6	2	
Seoul.....	May 1-June 30.....	43	5	
Do.....	July 1-31.....	2	—	
Czechoslovakia:				
State—				Apr. 1-June 30, 1924: Cases, 6.
Slovakia.....	Apr. 1-June 30.....	4	—	
Egypt:				
Alexandria.....	June 25-Aug. 5.....	4	—	
Cairo.....	Feb. 19-June 17.....	52	15	
Port Said.....	July 24-Aug. 5.....	3	—	
Estonia.....				Apr. 1-June 30, 1924: Cases, 37. July 1-31, 1924: Cases, 2.
Germany:				
Coblenz.....	July 13-19.....	2	—	
Great Britain:				
England—				
St. Helens.....	Aug. 7-Sept. 11.....	12	3	One suspect case: July 10, 1924. Locality, vicinity of Liverpool. Last previous outbreak of typhus in England: At Birkenhead, Feb.-Mar., 1922: Cases, 12; deaths, 3.
Ireland—				
Dublin.....	June 8-14.....	1	—	
Do.....	July 13-19.....	1	—	
Lismore.....	July 19.....	1	—	
Longford.....	do.....	1	—	
Greece:				
Saloniki.....	Apr. 20-May 4.....	6	—	
Iraq:				
Bagdad.....	Apr. 27-May 10.....	2	—	
Do.....	Aug. 3-9.....	1	—	
Japan.....				July 1-31, 1924: Cases, 2. Jan. 1-July 31, 1924: Cases, 8; deaths, 1.
Latvia.....				Apr. 1-June 30, 1924: Cases, 108.
City—				
Riga.....	June 1-30.....	1	—	
Mexico:				
Durango.....	July 1-31.....	—	2	Including municipalities in Federal district.
Guadalajara.....	May 1-June 30.....	2	2	
Mexico City.....	May 4-June 28.....	59	—	
Do.....	June 29-Sept. 6.....	75	—	
Torreón.....	July 1-Aug. 31.....	—	4	
Palestine:				
Acre.....	Aug. 19-25.....	1	—	
Jaffa.....	June 17-23.....	1	—	
Do.....	July 8-Aug. 25.....	2	—	
Jerusalem.....	July 1-Aug. 25.....	5	—	
Kantara.....	July 15-21.....	1	—	
Khulde.....	Aug. 17.....	1	—	
Tiberias.....	Aug. 19-25.....	1	—	
Peru:				
Arequipa.....	Jan. 1-June 30.....	—	4	
Do.....	July 1-31.....	—	1	
Poland:				
Do.....				Mar. 30-June 28, 1924: Cases, 2,947; deaths, 277.
Do.....				June 29-July 26, 1924: Cases, 265; deaths, 19.
Portugal:				
Oporto.....	June 15-21.....	—	1	
Russia:				
Moscow.....	July 27-Aug. 9.....	4	—	Jan. 1-31, 1924: 14,275 cases.
Spain:				
Barcelona.....	July 10-16.....	—	1	
Malaga.....	Sept. 6-13.....	—	1	
Syria:				
Aleppo.....	June 8-14.....	1	—	
Damascus.....	July 14-20.....	1	—	
Tunis:				
Tunis.....	May 27-June 9.....	4	—	

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

Reports Received from June 23 to October 10, 1924—Continued.

TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Turkey:				
Constantinople.....	May 18-June 21...	7	2	
Do.....	July 6-Aug. 30....	6	1	
Union of South Africa.....				Mar. 1-June 30, 1924: Cases, 418; deaths, 45. July 1-31, 1924: cases, 101; deaths, 19. (Colored, 93 cases; white, 8 cases.)
Cape Province.....				Mar. 1-June 30, 1924: Cases, 249; deaths, 23.
Do.....				July 1-31, 1924: Cases, 50; deaths, 6.
Natal.....				Mar. 1-June 30, 1924: Cases, 27; deaths, 5. July 1-31, 1924: Cases, 9.
Do.....	July 6-Aug. 2....			Outbreaks.
Durban.....	Apr. 20-June 28...	2		
Orange Free State.....				Mar. 1-June 30, 1924: Cases, 83; deaths, 11. July 1-31, 1924: Cases, 26; deaths, 11.
Transvaal.....				Mar. 1-May 31, 1924: Cases, 39; deaths, 5. July 1-31, 1924: Cases, 8; deaths, 2.
Johannesburg.....	May 11-24.....	2		
Do.....	June 29-July 26...	2		

YELLOW FEVER.

Brazil:				
Pernambuco.....	May 11-17.....	2	1	
Salvador:				
San Salvador.....	June 10-Aug. 25...			Present in San Salvador and vicinity.