

# Morbidity and Mortality

Weekly  
Report

PUBLIC HEALTH SERVICE

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Prepared by the NATIONAL OFFICE OF VITAL STATISTICS WORTH 3-4744

For release July 29, 1960

Washington 25, D. C.

Vol. 9, No. 29

## Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended July 23, 1960

Although there was some increase in total cases (105) of poliomyelitis for the week ended July 23 as compared with 95 for the previous week, the number of paralytic cases declined. There were 63 paralytic cases as compared with 69 for the week ended July 16. Reports for 2 States were not received for the current week. The numbers of paralytic cases for the comparable weeks in 1959 and 1958 were 178 and 73, respectively.

Concentration of cases continued in Rhode Island, South Carolina, and California, and an increase in number was reported in Texas. Small numbers were reported in States located in various sections of the country as shown in table 2 on page 3 of this report.

The number of total as well as paralytic cases was considerably less for Rhode Island than for the previous week. For the current week there were 7 paralytic and 4 nonparalytic cases as compared with 18 and 5, respectively, for the week

ended July 16. The cumulative total for the State is now 68, 54 of which are paralytic. The cases currently reported continue to be concentrated in the age group under 5 years and predominantly in Providence, Pawtucket, and Warwick.

Incidence of poliomyelitis continued to increase in South Carolina, 15 cases being reported as compared with 12 for the previous week. Five cases each were reported in Cherokee and Spartanburg Counties. Cumulative totals are now 12 for the former and 11 in the latter county. Three of the 4 paralytic cases reported in North Carolina occurred in Cleveland County, which is adjacent to Cherokee County in South Carolina.

The 10 paralytic and 3 nonparalytic cases reported in Texas represent an increase in incidence. For the previous week there were 2 paralytic and 3 nonparalytic cases reported. The geographic distribution of these cases is not known at this time.

Table 1. Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports)

Disease (Seventh Revision of International Lists, 1955)	29th week			Cumulative						Approximate seasonal low point
	Ended July 23, 1960 <sup>1</sup>	Ended July 25, 1959	Median 1955-59	First 29 weeks			Since seasonal low week			
				1960 <sup>1</sup>	1959	Median 1955-59	1959-60 <sup>1</sup>	1958-59	Median 1954-55 to 1958-59	
Anthrax-----062	-	-	-	10	10	12	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Botulism-----049.1	-	-	-	6	6	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Brucellosis (undulant fever)-----044	9	16	20	470	437	563	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Diphtheria-----055	8	8	18	355	427	515	25	30	43	July 1
Encephalitis, infectious-----082	43	53	52	921	903	893	308	325	302	June 1
Hepatitis, infectious, and serum-----092, N998.5 pt.	635	307	258	21,421	13,000	12,170	29,851	18,436	18,436	Sept. 1
Malaria-----110-117	2	1	9	31	39	64	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Measles-----085	4,565	3,052	3,426	388,094	353,499	508,745	427,563	407,499	564,495	Sept. 1
Meningitis, aseptic-----340 pt.	45	---	---	940	---	---	---	---	---	---
Meningococcal infections-----057	22	41	41	1,374	1,432	1,525	2,038	2,298	2,534	Sept. 1
Poliomyelitis-----080	105	276	276	724	1,729	2,215	505	1,436	1,685	Apr. 1
Paralytic-----080.0, 080.1	63	178	178	518	1,147	1,147	365	939	939	Apr. 1
Nonparalytic-----080.2	28	75	164	149	413	1,088	110	365	922	Apr. 1
Unspecified-----080.3	14	23	49	57	169	312	30	132	223	Apr. 1
Psittacosis-----096.2	1	-	5	58	65	166	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Rabies in man-----094	-	-	-	-	3	3	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Streptococcal sore throat, including scarlet fever-----050, 051	3,067	---	---	204,413	---	---	---	---	---	---
Typhoid fever-----040	21	24	37	400	378	671	272	251	410	Apr. 1
Typhus fever, endemic-----101	1	1	1	45	17	61	40	11	41	Apr. 1
Rabies in animals-----	72	90	90	2,266	2,222	2,813	3,315	3,128	3,782	Oct. 1

<sup>1</sup>Data exclude reports from Mississippi and Oklahoma.

<sup>2</sup>Data show no pronounced seasonal change in incidence.

Reported incidence of paralytic cases was less in California. Eight of the 9 paralytic cases were in Los Angeles County. Information has been received regarding a fatal case in a 19-year-old male who was at a military recruit-training station. He had received the first dose of vaccine, on June 24 and had onset of symptoms on July 8. At autopsy, evidence of bulbar involvement was found, necrosis in the interior columns of the cervical cord and medulla, and edema of the cerebrum and spinal cord.

According to the Canadian Department of National Health and Welfare, 25 cases of paralytic poliomyelitis were reported in Canada for the week ended July 9 as compared with 22 for the same week in 1959. The numbers reported in the 4 weeks previous to July 9 were 8, 8, 5, and 9, respectively. The cumulative total for Canada is 168 cases with 11 deaths as compared with 88 cases with 10 deaths for the same period in 1959. Last year the highest incidence was in the Eastern Provinces, but this year the disease has been concentrated in Saskatchewan (12 cases), Alberta (26 cases), and British Columbia (60 cases). Last year there was a total of 6 cases reported in these 3 Provinces as compared with 98 this year.

Coincident with the increase in poliomyelitis in the United States during the past month, there has been an increase in reported incidence of aseptic meningitis. Until the week ended July 16, the increase in reported cases was evident only in the Middle Atlantic and the Pacific States. In these areas, New York and California reported most of the cases. For the week ended July 16, increases occurred in the South Central and Mountain States.

The Mississippi State Board of Health reports the occurrence of 13 cases of aseptic meningitis in 1 county. The illness was relatively mild and lasted about 5 to 7 days. Symptoms consisted of fever up to 104° F., headache, nausea, vomiting, and stiff neck. Spinal fluid specimens have been clear but under pressure and with pleocytosis. None has had paralysis. About a third of the cases have had a rash, and multiple cases in families have been observed.

## EPIDEMIOLOGICAL REPORTS

### Malaria

Dr. I. F. Gratz, Pennsylvania Department of Health, has reported a case of malaria whose infection presumably was contracted outside of the United States. The patient works for a religious organization and visits many foreign countries. He was in Haiti from May 17 to 24 during which time he was bitten by mosquitoes. He took 2 tablets of chloroquine on May 21. He returned home and on June 6 he complained of grippelike symptoms but continued to work for 2 days. His symptoms which became more severe consisted of nausea, headache, chills, malaise, and general aches. He was admitted to a hospital for observation where a blood smear was taken. Plasmodia identified tentatively as *falciparum malaria* were

found. However, at the Malaria Repository of the Communicable Disease Center, Chamblee, Georgia, the diagnosis was confirmed as "*Plasmodium*, species not determined. Only rare ring stages found." As of June 15 the patient was feeling better but still complained of pain in the neck.

### Botulism in Canada

The epidemiology Division of the Canadian Department of National Health and Welfare has received a report of 4 deaths from botulism in Labrador, Newfoundland. On May 15, 2 Eskimo families ate a meal of fermented seal meat that had been left behind a stove in a metal container for a week or so. On May 16, one person developed vomiting, cramps, and visual disturbances. On the following day a middle-aged woman died, and the next day an 18-year-old woman died apparently from respiratory failure. On June 5, an Eskimo woman died just before the arrival of a physician. It was believed this death may have resulted from botulism or from eating seal liver. On June 19, 2 more cases, both women, were evacuated by plane to a hospital. Both had gastrointestinal symptoms, dysphagia, and visual disturbances. One of these cases died 45 minutes after admission to the hospital.

### Salmonellosis

Drs. E. W. Jackson and A. Browne, California Department of Public Health, have stated in a surveillance report that isolations of *Salmonella infantis* have been unusually frequent during the first half of 1960, particularly in May and June. Identifications have been made from human and several animal sources. Turkeys and chickens have been the most common animal sources. Isolations have been made from 16 areas located in various parts of the State. The statement was made that these data indicate a recent and widespread occurrence of a previously uncommon species. This is similar in certain respects to the occurrence of *S. reading* infections in the United States in 1956-57.

The Mississippi State Board of Health has reported an outbreak of a *Salmonella* infection involving 3 members of a family. Symptoms consisting of fever, nausea, vomiting, abdominal pain, and diarrhea appeared 8 to 12 hours after an evening meal of ground beef, lettuce, sliced tomatoes, and bread. The beef had been purchased from an approved source and had been kept refrigerated. It was cooked thoroughly before eating. The source of the other foods was not stated. Stool specimens from the 3 cases were found to contain a Group E type of *Salmonella*.

## QUARANTINE MEASURES

### Immunization Information for International Travel

No changes reported

# Morbidity and Mortality Weekly Report

3

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JULY 25, 1959, AND JULY 23, 1960

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Poliomyelitis 080										Menin- gitis, aseptic 340 pt.	Brucel- losis (undul- ant fever) 044
	Total <sup>1</sup>				Paralytic 080.0,080.1				Nonparalytic 080.2			
	29th week		Cumulative, first 29 weeks		29th week		Cumulative, first 29 weeks					
	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1960
UNITED STATES <sup>2</sup> -----	105	276	724	1,729	63	178	518	1,147	28	75	45	9
NEW ENGLAND-----	14	4	84	17	10	3	70	14	4	-	1	-
Maine-----	-	-	6	-	-	-	6	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	1	-	-	-	1	-	-	-	-
Massachusetts-----	1	3	7	8	1	2	7	6	-	-	1	-
Rhode Island-----	11	-	68	2	7	-	54	2	4	-	-	-
Connecticut-----	2	1	3	6	2	1	3	5	-	-	-	-
MIDDLE ATLANTIC-----	4	18	64	87	3	16	46	54	1	2	5	-
New York-----	1	7	41	60	1	7	30	37	-	-	4	-
New Jersey-----	2	2	10	15	1	2	8	8	1	-	1	-
Pennsylvania-----	1	9	13	12	1	7	8	9	-	2	-	-
EAST NORTH CENTRAL-----	18	26	83	150	6	11	35	71	6	10	4	-
Ohio-----	3	9	24	59	1	4	8	23	2	2	-	-
Indiana-----	8	5	11	18	1	4	2	15	1	1	-	-
Illinois-----	1	6	22	21	1	2	16	10	-	3	1	-
Michigan-----	6	5	23	46	3	1	8	19	3	4	3	-
Wisconsin-----	-	1	3	6	-	-	1	4	-	-	-	-
WEST NORTH CENTRAL-----	4	60	36	370	3	31	20	201	-	18	2	7
Minnesota-----	-	5	14	20	-	3	11	15	-	2	-	-
Iowa-----	-	20	8	142	-	6	1	73	-	10	-	4
Missouri-----	3	18	9	114	2	14	6	71	-	3	2	1
North Dakota-----	-	-	-	1	-	-	-	-	-	-	-	-
South Dakota-----	-	1	1	4	-	1	-	1	-	-	-	-
Nebraska-----	1	8	2	48	1	5	2	31	-	3	-	-
Kansas-----	-	8	2	41	-	2	-	10	-	-	-	2
SOUTH ATLANTIC-----	26	34	109	261	13	25	78	195	6	7	3	1
Delaware-----	-	1	-	4	-	1	-	4	-	-	-	-
Maryland-----	-	-	1	-	-	-	-	-	-	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	1	-
Virginia-----	-	8	-	38	-	7	-	31	-	1	1	1
West Virginia-----	2	3	10	28	1	3	8	20	1	-	-	-
North Carolina-----	4	11	22	42	4	8	21	36	-	3	-	-
South Carolina-----	15	2	36	17	7	-	21	9	3	2	-	-
Georgia-----	1	1	5	29	1	1	4	24	-	-	-	-
Florida-----	4	8	35	103	-	5	24	71	2	1	1	-
EAST SOUTH CENTRAL <sup>2</sup> -----	2	39	26	182	2	32	23	140	-	6	2	-
Kentucky-----	-	-	8	13	-	-	5	11	-	-	1	-
Tennessee-----	1	13	4	55	1	11	4	46	-	1	1	-
Alabama-----	1	24	7	70	1	20	7	61	-	4	-	-
Mississippi-----	-	2	27	44	-	1	27	22	-	1	-	-
WEST SOUTH CENTRAL <sup>2</sup> -----	19	68	101	421	12	40	60	286	7	26	9	1
Arkansas-----	2	13	10	79	-	10	3	70	2	3	-	1
Louisiana-----	4	13	29	59	2	10	20	45	2	3	-	-
Oklahoma-----	-	8	24	52	-	5	24	27	-	1	-	-
Texas-----	13	34	58	231	10	15	33	144	3	19	9	-
MOUNTAIN-----	4	7	27	71	4	3	17	40	-	3	-	-
Montana-----	2	1	12	3	2	-	8	-	-	1	-	-
Idaho-----	-	1	4	5	-	-	1	-	-	-	-	-
Wyoming-----	-	-	1	2	-	-	-	1	-	-	-	-
Colorado-----	2	-	4	6	2	-	4	5	-	-	-	-
New Mexico-----	-	1	2	18	-	1	-	8	-	-	-	-
Arizona-----	-	3	3	33	-	1	3	25	-	2	-	-
Utah-----	-	-	1	2	-	-	1	-	-	-	-	-
Nevada-----	-	1	-	2	-	1	-	1	-	-	-	-
PACIFIC-----	14	20	194	170	10	17	169	146	4	3	19	-
Washington-----	-	1	7	14	-	1	7	14	-	-	3	-
Oregon-----	2	5	18	25	1	4	12	20	1	1	1	-
California-----	12	13	162	130	9	11	143	111	3	2	15	-
Alaska-----	-	1	2	1	-	1	2	1	-	-	-	-
Hawaii-----	-	-	5	(4)	-	-	5	(4)	-	-	-	-
Puerto Rico-----	31	-	342	3	31	-	337	3	-	-	-	-

<sup>1</sup>Includes cases not specified by type, category number 080.3.

<sup>2</sup>Data exclude reports from Mississippi and Oklahoma for the current week.

## Morbidity and Mortality Weekly Report

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JULY 25, 1959, AND JULY 23, 1960--Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Diphtheria 055				Encephalitis, infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	29th week		Cumulative, first 29 weeks		082		29th week		Cumulative, first 29 weeks		085	
	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959	1960	1959
UNITED STATES <sup>2</sup> -----	8	8	355	427	43	53	635	307	21,421	13,000	4,565	3,052
NEW ENGLAND-----	-	-	10	5	1	1	22	10	648	409	358	208
Maine-----	-	-	2	-	-	-	-	-	44	73	24	41
New Hampshire-----	-	-	-	-	-	-	1	-	21	11	3	1
Vermont-----	-	-	-	-	-	-	-	-	10	21	30	31
Massachusetts-----	-	-	7	5	1	1	18	3	331	178	250	96
Rhode Island-----	-	-	1	-	-	-	2	1	125	41	5	-
Connecticut-----	-	-	-	-	-	-	1	6	117	85	46	39
MIDDLE ATLANTIC-----	-	2	10	40	11	11	145	68	2,344	1,934	756	605
New York-----	-	-	2	20	7	10	104	42	1,218	1,171	590	392
New Jersey-----	-	-	1	9	2	-	2	7	172	225	85	148
Pennsylvania-----	-	2	7	11	2	1	39	19	954	538	61	65
EAST NORTH CENTRAL-----	1	-	31	20	3	7	97	41	4,017	2,146	1,895	648
Ohio-----	-	-	14	7	1	2	37	13	1,324	635	113	75
Indiana-----	1	-	5	2	-	2	8	3	475	206	65	15
Illinois-----	-	-	3	8	-	2	17	13	830	442	89	183
Michigan-----	-	-	8	1	2	-	33	10	1,223	744	895	111
Wisconsin-----	-	-	1	2	-	1	2	2	165	119	733	264
WEST NORTH CENTRAL-----	-	-	18	36	-	4	47	6	1,619	1,032	58	89
Minnesota-----	-	-	5	17	-	-	6	1	169	245	12	16
Iowa-----	-	-	2	3	-	-	4	1	274	96	12	18
Missouri-----	-	-	2	3	-	-	12	2	600	292	-	2
North Dakota-----	-	-	1	2	-	-	3	2	125	215	28	42
South Dakota-----	-	-	5	3	-	-	2	-	119	10	-	11
Nebraska-----	-	-	1	8	-	-	18	-	169	50	6	-
Kansas-----	-	-	2	-	-	4	2	-	163	124	(*)	(*)
SOUTH ATLANTIC-----	1	4	84	103	6	4	58	36	2,561	1,179	298	211
Delaware-----	-	-	-	-	-	-	4	7	160	77	16	4
Maryland-----	-	4	1	7	2	2	10	2	254	279	34	23
District of Columbia-----	-	-	-	-	1	1	6	-	29	11	6	4
Virginia-----	-	-	10	7	-	-	13	12	516	248	131	92
West Virginia-----	-	-	4	1	-	-	6	5	485	215	60	34
North Carolina-----	1	-	3	8	2	-	9	1	218	65	7	5
South Carolina-----	-	-	20	7	1	-	-	6	43	23	13	19
Georgia-----	-	-	19	34	-	1	2	-	173	95	1	-
Florida-----	-	-	27	39	-	-	8	3	683	166	30	30
EAST SOUTH CENTRAL <sup>2</sup> -----	-	-	39	47	-	4	40	31	3,139	1,177	228	147
Kentucky-----	-	-	1	5	-	-	4	17	1,208	559	33	40
Tennessee-----	-	-	6	5	-	-	23	5	1,027	264	191	75
Alabama-----	-	-	20	9	-	2	13	8	675	259	4	32
Mississippi-----	-	-	<sup>2</sup> 12	28	-	2	-	1	<sup>2</sup> 229	95	-	-
WEST SOUTH CENTRAL <sup>2</sup> -----	5	1	128	157	-	6	53	19	1,790	1,001	228	325
Arkansas-----	-	-	2	34	-	1	5	1	80	49	-	1
Louisiana-----	-	-	28	40	-	-	4	-	85	94	-	1
Oklahoma-----	-	-	<sup>2</sup> 6	2	-	-	-	-	<sup>2</sup> 242	137	-	7
Texas-----	5	1	92	81	-	5	44	18	1,383	721	228	316
MOUNTAIN-----	1	1	34	13	2	8	37	34	1,746	1,826	289	324
Montana-----	1	-	3	-	1	-	2	4	68	179	47	18
Idaho-----	-	-	11	-	-	-	1	-	221	193	31	20
Wyoming-----	-	-	5	-	-	-	1	-	18	45	1	4
Colorado-----	-	-	3	4	-	-	14	13	619	559	103	71
New Mexico-----	-	1	5	7	-	-	3	2	238	362	-	32
Arizona-----	-	-	3	1	1	-	14	10	412	358	67	78
Utah-----	-	-	4	-	-	8	1	4	148	112	39	100
Nevada-----	-	-	-	1	-	-	1	1	22	18	1	1
PACIFIC-----	-	-	1	6	20	8	136	62	3,557	2,296	455	495
Washington-----	-	-	-	-	-	-	11	3	416	316	31	36
Oregon-----	-	-	-	1	-	-	13	23	596	469	120	103
California-----	-	-	-	4	20	8	111	35	2,350	1,494	283	316
Alaska-----	-	-	1	1	-	-	1	1	141	17	16	40
Hawaii-----	-	-	-	(2)	-	-	-	(2)	54	(30)	5	(27)
Puerto Rico-----	3	1	97	18	-	-	18	7	465	171	23	20

<sup>2</sup>Data exclude reports from Mississippi and Oklahoma for the current week.

## Morbidity and Mortality Weekly Report

5

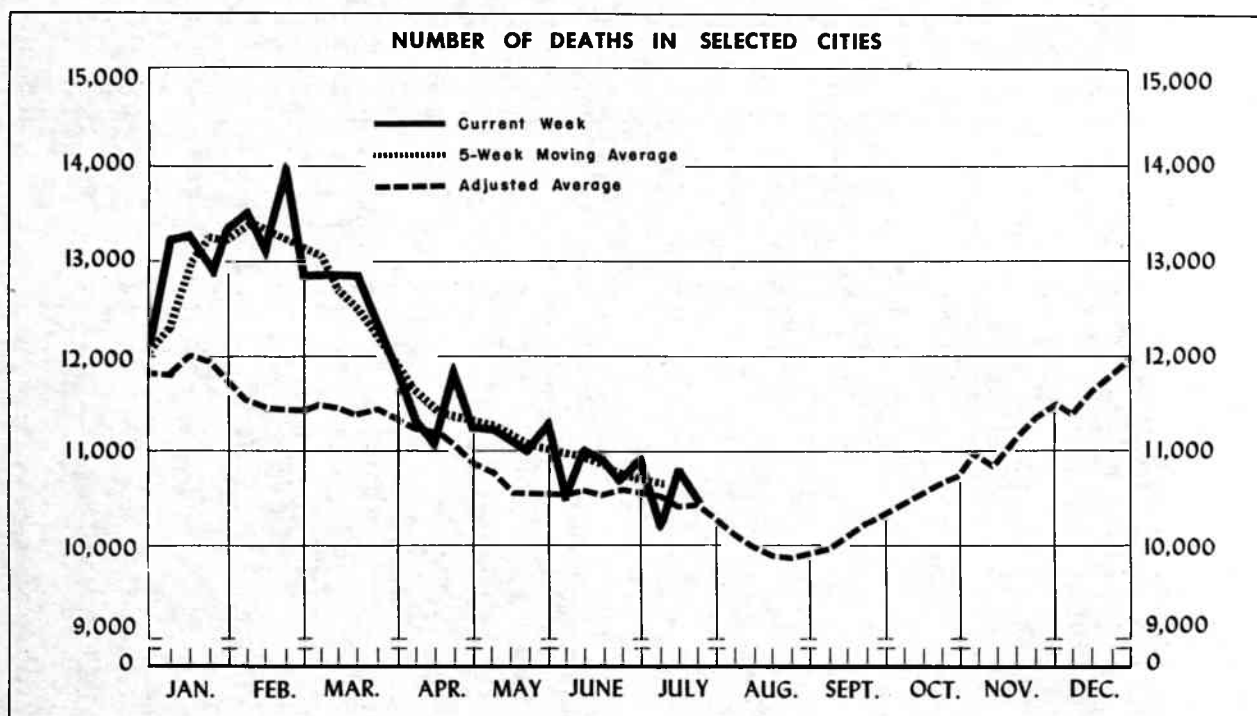
Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED JULY 25, 1959, AND JULY 23, 1960—Continued

(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria	Meningococcal infections		Psittacosis	Streptococcal sore throat, etc.	Typhoid fever 040				Typhus fever, endemic	Rabies in animals	
	110-117	057		096.2	050,051	29th week		Cumulative, first 29 weeks		101		
	1960	1960	1959	1960	1960	1960	1959	1960	1959	1960	1960	1959
UNITED STATES <sup>2</sup> -----	2	22	41	1	3,067	21	24	400	379	1	72	90
NEW ENGLAND-----	-	1	2	-	135	-	-	6	9	-	-	-
Maine-----	-	-	-	-	23	-	-	2	1	-	-	-
New Hampshire-----	-	-	-	-	3	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	7	-	-	-	-	-	-	-
Massachusetts-----	-	-	-	-	40	-	-	2	2	-	-	-
Rhode Island-----	-	-	1	-	2	-	-	-	1	-	-	-
Connecticut-----	-	1	1	-	60	-	-	2	5	-	-	-
MIDDLE ATLANTIC-----	1	6	6	-	137	3	1	28	34	-	13	15
New York-----	-	3	3	-	80	1	-	20	13	-	13	13
New Jersey-----	-	1	2	-	15	-	-	-	7	-	-	-
Pennsylvania-----	1	2	1	-	42	2	1	8	14	-	-	2
EAST NORTH CENTRAL-----	-	5	7	-	193	4	5	46	48	-	6	13
Ohio-----	-	-	-	-	36	1	2	11	23	-	-	6
Indiana-----	-	-	-	-	46	1	-	12	6	-	2	2
Illinois-----	-	2	3	-	26	2	3	13	11	-	2	1
Michigan-----	-	3	4	-	46	-	-	6	7	-	2	2
Wisconsin-----	-	-	-	-	39	-	-	4	1	-	-	2
WEST NORTH CENTRAL-----	-	1	13	-	64	-	2	23	22	-	18	28
Minnesota-----	-	-	-	-	1	-	-	1	-	-	4	12
Iowa-----	-	-	-	-	21	-	-	3	1	-	5	9
Missouri-----	-	1	-	-	4	-	1	15	11	-	5	2
North Dakota-----	-	-	1	-	38	-	-	1	2	-	1	4
South Dakota-----	-	-	-	-	-	-	1	1	3	-	-	-
Nebraska-----	-	-	12	-	-	-	-	1	1	-	3	1
Kansas-----	-	-	-	-	-	-	-	1	4	-	-	-
SOUTH ATLANTIC-----	-	4	5	-	232	6	3	64	67	-	15	9
Delaware-----	-	-	-	-	3	-	-	1	-	-	-	-
Maryland-----	-	1	-	-	27	-	-	1	1	-	-	-
District of Columbia-----	-	-	-	-	1	-	-	5	2	-	-	-
Virginia-----	-	-	3	-	82	2	-	16	14	-	8	5
West Virginia-----	-	-	-	-	29	1	-	3	4	-	3	1
North Carolina-----	-	2	1	-	9	-	1	8	6	-	-	-
South Carolina-----	-	-	-	-	17	1	-	9	5	-	-	1
Georgia-----	-	1	-	-	-	2	2	13	16	-	-	2
Florida-----	-	-	1	-	64	-	-	8	19	-	4	-
EAST SOUTH CENTRAL <sup>2</sup> -----	1	-	1	-	531	2	3	55	51	-	2	12
Kentucky-----	-	-	1	-	35	-	-	13	7	-	-	2
Tennessee-----	-	-	-	-	492	2	3	27	26	-	2	3
Alabama-----	1	-	-	-	4	-	-	10	7	-	-	7
Mississippi-----	-	-	-	-	-	-	-	25	11	-	-	-
WEST SOUTH CENTRAL <sup>2</sup> -----	-	2	1	-	510	6	6	129	81	1	16	11
Arkansas-----	-	1	-	-	1	2	1	24	17	-	9	4
Louisiana-----	-	1	-	-	1	2	-	50	10	-	3	2
Oklahoma-----	-	-	-	-	-	-	1	25	12	-	-	-
Texas-----	-	-	1	-	508	2	4	50	42	1	4	5
MOUNTAIN-----	-	1	2	-	746	-	2	19	18	-	-	-
Montana-----	-	-	-	-	48	-	-	5	1	-	-	-
Idaho-----	-	-	-	-	34	-	-	-	3	-	-	-
Wyoming-----	-	-	-	-	9	-	1	2	2	-	-	-
Colorado-----	-	1	-	-	194	-	-	-	2	-	-	-
New Mexico-----	-	-	-	-	183	-	1	6	6	-	-	-
Arizona-----	-	-	-	-	103	-	-	6	4	-	-	-
Utah-----	-	-	2	-	175	-	-	-	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC-----	-	2	4	1	519	-	2	30	48	-	2	2
Washington-----	-	1	-	-	30	-	-	1	1	-	-	-
Oregon-----	-	-	1	-	22	-	-	6	2	-	-	-
California-----	-	1	3	1	453	-	2	23	44	-	2	2
Alaska-----	-	-	-	-	13	-	-	-	1	-	-	-
Hawaii-----	-	-	-	-	1	-	-	-	-	-	-	-
Puerto Rico-----	-	-	-	-	1	-	2	16	13	-	-	-

<sup>2</sup>Data exclude reports from Mississippi and Oklahoma for the current week.

## Morbidity and Mortality Weekly Report



The chart shows the number of deaths reported for 117 major cities of the United States by week for the current year, a 5-week moving average of these figures plotted at the central week, and an adjusted average for comparison. The adjusted average is computed as follows: From the total deaths reported each week for the years 1955-59, 3 central figures are selected by eliminating the highest and lowest figures reported for that week. A 5-week moving average of the arithmetic means of the 3 central figures is then computed. The adjusted average shown in the chart is this moving average increased by 4.0 percent to allow for estimated population growth in the cities and surrounding areas.

The use of the adjusted average is based on the assumption that the crude death rate and changes in population will remain at the level of recent years. No allowance has been made for increased use of city hospital facilities.

Table 4 shows the number of death certificates received during the week indicated for deaths that occurred in selected cities. Figures compiled in this way, by week of receipt, usually approximate closely the number of deaths occurring during the week. However, differences are to be expected because of variations in the interval between death and receipt of the certificate and because of incomplete reporting due to holidays or vacations. If a report is not received from a city in time to be included in the total for the current week, an estimate is used.

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of the populations and because some cities are hospital centers serving the surrounding areas. Changes from year to year in the number of deaths may be due in part to population increases or decreases.

**Table 3. DEATHS IN SELECTED CITIES BY GEOGRAPHIC DIVISIONS**

(By place of occurrence and week of filing certificate. Excludes fetal deaths. Data exclude figures shown in parentheses in table 4)

Area	29th week ended July 23, 1960	28th week ended July 16, 1960	Adjusted average, 29th week 1955-59	Percent change, adjusted average to current week <sup>1</sup>	Cumulative, first 29 weeks		
					1960	1959	Percent change
<b>TOTAL, 117 REPORTING CITIES</b>	<sup>2</sup> 10,487	<sup>2</sup> 10,831	10,412	+0.7	<sup>2</sup> 344,500	333,772	+3.2
New England----- (14 cities)	617	650	664	-7.1	21,606	20,947	+3.1
Middle Atlantic----- (20 cities)	<sup>2</sup> 2,896	3,150	3,025	-4.3	<sup>2</sup> 95,472	96,333	-0.9
East North Central----- (21 cities)	<sup>2</sup> 2,372	<sup>2</sup> 2,386	2,355	+0.7	<sup>2</sup> 74,120	72,100	+2.8
West North Central----- (9 cities)	763	691	749	+1.9	23,980	22,970	+4.4
South Atlantic----- (11 cities)	821	922	901	-8.9	29,868	28,494	+4.8
East South Central----- (8 cities)	476	510	494	-3.6	15,663	14,978	+4.6
West South Central----- (13 cities)	927	960	905	+2.4	30,349	27,575	+10.1
Mountain----- (8 cities)	324	328	275	+17.8	10,736	9,330	+15.1
Pacific----- (13 cities)	1,291	1,234	1,307	-1.2	42,706	41,045	+4.0

<sup>1</sup>Adjusted average used as base.

<sup>2</sup>Includes estimates for missing cities.



# Morbidity and Mortality Weekly Report

7

Table 4. DEATHS IN SELECTED CITIES

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	29th week ended July 23, 1960	28th week ended July 16, 1960	Cumulative, first 29 weeks		Area	29th week ended July 23, 1960	28th week ended July 16, 1960	Cumulative, first 29 weeks	
			1960	1959				1960	1959
NEW ENGLAND:									
Boston, Mass.-----	235	213	7,527	7,137	WEST NORTH CENTRAL—Con.:				
Bridgeport, Conn.-----	35	32	1,240	1,217	St. Louis, Mo.-----	209	231	7,399	6,983
Cambridge, Mass.-----	21	36	947	823	St. Paul, Minn.-----	60	59	2,104	1,924
Fall River, Mass.-----	13	23	859	852	Wichita, Kans.-----	44	28	1,361	1,405
Hartford, Conn.-----	52	55	1,416	1,458	SOUTH ATLANTIC:				
Lowell, Mass.-----	24	22	718	685	Atlanta, Ga.-----	110	105	3,499	3,253
Lynn, Mass.-----	21	23	721	684	Baltimore, Md.-----	213	227	7,589	7,216
New Bedford, Mass.-----	16	17	717	690	Charlotte, N.C.-----	21	29	1,185	1,089
New Haven, Conn.-----	26	41	1,323	1,331	Jacksonville, Fla.-----	47	42	1,830	1,688
Providence, R.I.-----	60	61	1,911	1,920	Miami, Fla.-----	73	76	2,211	2,103
Somerville, Mass.-----	11	10	416	382	Norfolk, Va.-----	32	45	1,226	1,163
Springfield, Mass.-----	32	43	1,368	1,325	Richmond, Va.-----	57	59	2,343	2,300
Waterbury, Conn.-----	22	28	835	802	Savannah, Ga.-----	20	43	1,065	961
Worcester, Mass.-----	49	46	1,608	1,641	St. Petersburg, Fla.-----	(59)	(76)	(2,192)	(1,922)
					Tampa, Fla.-----	63	63	2,012	1,880
					Washington, D.C.-----	159	193	5,774	5,718
					Wilmington, Del.-----	26	40	1,134	1,123
MIDDLE ATLANTIC:									
Albany, N.Y.-----	28	45	1,318	1,625	EAST SOUTH CENTRAL:				
Allentown, Pa.-----	30	29	1,053	1,043	Birmingham, Ala.-----	87	80	2,568	2,406
Buffalo, N.Y.-----	129	136	4,394	4,302	Chattanooga, Tenn.-----	40	65	1,410	1,353
Camden, N.J.-----	38	45	1,292	1,205	Knoxville, Tenn.-----	26	15	870	825
Elizabeth, N.J.-----	24	24	861	875	Louisville, Ky.-----	112	134	3,425	3,305
Erie, Pa.-----	31	40	1,151	1,113	Memphis, Tenn.-----	92	125	3,360	3,283
Jersey City, N.J.-----	64	66	2,106	2,212	Mobile, Ala.-----	44	20	1,213	1,155
Newark, N.J.-----	186	71	2,872	2,974	Montgomery, Ala.-----	29	25	1,041	962
New York City, N.Y.-----	1,475	1,578	48,516	49,266	Nashville, Tenn.-----	46	46	1,776	1,689
Paterson, N.J.-----	25	26	1,144	1,132	WEST SOUTH CENTRAL:				
Philadelphia, Pa.-----	478	523	14,659	14,743	Austin, Tex.-----	34	39	1,042	937
Pittsburgh, Pa.-----	166	221	5,762	5,551	Baton Rouge, La.-----	29	21	864	803
Reading, Pa.-----	20	22	709	669	Corpus Christi, Tex.-----	22	14	721	609
Rochester, N.Y.-----	105	101	2,960	2,843	Dallas, Tex.-----	110	105	3,743	3,457
Schenectady, N.Y.-----	20	25	701	721	El Paso, Tex.-----	24	40	1,137	1,071
Scranton, Pa.-----	30	31	1,120	1,130	Fort Worth, Tex.-----	56	42	1,997	1,873
Syracuse, N.Y.-----	52	56	1,848	1,852	Houston, Tex.-----	150	199	5,026	4,549
Trenton, N.J.-----	41	46	1,248	1,296	Little Rock, Ark.-----	57	45	1,742	1,608
Utica, N.Y.-----	30	30	826	840	New Orleans, La.-----	170	173	5,479	4,912
Yonkers, N.Y.-----	24	35	932	941	Oklahoma City, Okla.-----	66	79	2,240	2,008
					San Antonio, Tex.-----	97	84	3,051	2,818
					Shreveport, La.-----	49	60	1,623	1,490
					Tulsa, Okla.-----	63	59	1,684	1,440
EAST NORTH CENTRAL:									
Akron, Ohio-----	46	53	1,660	1,754	MOUNTAIN:				
Canton, Ohio-----	127	34	2,022	987	Albuquerque, N. Mex.-----	29	29	917	902
Chicago, Ill.-----	753	718	22,832	22,289	Colorado Springs, Colo.-----	17	18	503	449
Cincinnati, Ohio-----	150	148	4,635	4,698	Denver, Colo.-----	101	90	3,506	3,439
Cleveland, Ohio-----	200	207	6,343	6,093	Ogden, Utah-----	17	12	499	460
Columbus, Ohio-----	85	98	3,484	3,393	Phoenix, Ariz.-----	64	81	2,298	1,524
Dayton, Ohio-----	159	167	2,131	1,984	Pueblo, Colo.-----	17	17	467	401
Detroit, Mich.-----	363	311	10,228	9,656	Salt Lake City, Utah-----	48	53	1,458	1,457
Evansville, Ind.-----	35	43	1,087	1,113	Tucson, Ariz.-----	31	28	1,088	698
Flint, Mich.-----	45	22	1,186	1,193	PACIFIC:				
Fort Wayne, Ind.-----	32	40	1,113	1,055	Berkeley, Calif.-----	12	20	499	507
Gary, Ind.-----	37	35	952	907	Fresno, Calif.-----	(49)	(29)	(1,348)	(1,172)
Grand Rapids, Mich.-----	43	49	1,241	1,246	Glendale, Calif.-----	(36)	(31)	(1,126)	(1,066)
Indianapolis, Ind.-----	138	147	4,350	4,132	Honolulu, Hawaii-----	34	25	1,222	1,106
Madison, Wis.-----	21	30	951	858	Long Beach, Calif.-----	53	69	1,650	1,614
Milwaukee, Wis.-----	107	128	3,689	3,771	Los Angeles, Calif.-----	447	425	15,207	14,312
Peoria, Ill.-----	126	37	879	850	Oakland, Calif.-----	87	105	2,830	2,724
Rockford, Ill.-----	22	31	854	827	Pasadena, Calif.-----	28	32	1,005	945
South Bend, Ind.-----	126	24	2,843	783	Portland, Oreg.-----	109	81	3,279	3,348
Toledo, Ohio-----	104	104	2,980	2,933	Sacramento, Calif.-----	44	53	1,706	1,615
Youngstown, Ohio-----	53	60	1,660	1,578	San Diego, Calif.-----	97	69	2,656	2,390
					San Francisco, Calif.-----	182	147	5,869	5,783
					San Jose, Calif.-----	(47)	(33)	(1,029)	(743)
					Seattle, Wash.-----	138	118	4,132	3,988
					Spokane, Wash.-----	40	60	1,386	1,459
					Tacoma, Wash.-----	20	30	1,235	1,254
WEST NORTH CENTRAL:									
Des Moines, Iowa-----	47	50	1,665	1,562					
Duluth, Minn.-----	28	22	756	780					
Kansas City, Kans.-----	26	23	1,013	1,014					
Kansas City, Mo.-----	139	106	3,806	3,520					
Lincoln, Nebr.-----	(30)	(35)	(779)	(760)					
Minneapolis, Minn.-----	130	108	3,677	3,653					
Omaha, Nebr.-----	80	64	2,199	2,129					

<sup>1</sup>Estimated.

<sup>2</sup>Includes estimate for current week.

<sup>3</sup>Includes estimate for current week and previous week.

## EXPLANATION OF SYMBOLS USED IN TABLES

Data not available-----	---
Quantity zero-----	-
Percent more than 0 but less than 0.05-----	0.0
Disease stated not notifiable-----	*
Figures within parentheses not included in totals--	( )

GPO 894487

If you do not desire to continue receiving  
this publication, please  
check here and return.

☐

FIRST CLASS MAIL

U. S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
Public Health Service  
Washington 25, D. C.  
Official Business

## SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from the health departments of each State and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Total figures for the United States and the Pacific Division include data for Alaska for 1959 and 1960; data for Hawaii are included for 1960 only. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting these diseases. When diseases of rare occurrence are reported by a State (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) this is noted below table 1.

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF H. E. W.