

# Morbidity and Mortality

Weekly  
Report

PUBLIC HEALTH SERVICE

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

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## Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended February 28, 1959

The California Department of Public Health reported 1 case of botulism due to home-canned mushrooms. The individual is in a respirator. No food was available for laboratory examination.

Five cases of diphtheria were reported in New Jersey for the current week. Only 6 cases were reported during the year 1958.

### EPIDEMIOLOGICAL REPORTS

#### Influenza

Dr. A. P. McKee, University of Iowa, has reported an outbreak of influenza in a school in the central part of the State. This was identified as influenza B. Eighty of the 360 pupils were absent on February 20 when specimens were obtained. The outbreak began 1 week earlier.

Influenza-like illness has caused absenteeism up to 50 percent, primarily in high schools in Denver and in Jefferson County, Colorado. School outbreaks have been reported in

several other towns in the State. Specimens examined in 3 different laboratories have been negative with respect to influenza viruses.

Reports have been received of outbreaks of acute respiratory illness in schools located in the northern part of Indiana. These febrile illnesses have been characterized by aches and pains lasting about 48 hours. No virus isolations have been made to date. An outbreak of influenza-like illness in a school in west central Mississippi is also under investigation.

Strains of virus have been isolated in Massachusetts but these have not been identified.

Dr. R. Q. Robinson, Communicable Disease Center Laboratory, Montgomery, Alabama, reports that studies of strains of type B influenza virus sent from the Netherlands and a strain obtained in Montgomery County, Maryland, are closely related to the 1954 Great Lakes strain of type B and the 1955 Huerfing type B influenza viruses. The Great Lakes strain is included in the vaccines manufactured this year.

Continued on page 2

Table 1. Cases of Specified Notifiable Diseases: Continental United States

(See page 8 for source and nature of data)

DISEASE (Seventh Revision of International Lists, 1955)	8th WEEK			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended Feb. 28, 1959 <sup>1</sup>	Ended Mar. 1, 1958	Median 1954-58	First 8 weeks			Since seasonal low week			
				1959 <sup>1</sup>	1958	Median 1954-58	1958-59 <sup>1</sup>	1957-58	Median 1953-54 to 1957-58	
Anthrax-----062	-	-	-	-	-	4	(2)	(2)	(2)	(2)
Botulism-----049.1	31	-	-	1	-	-	(2)	(2)	(2)	(2)
Brucellosis (undulant fever)-----044	5	14	20	85	100	128	(2)	(2)	(2)	(2)
Diphtheria-----055	23	22	32	190	139	319	802	937	1,568	July 1
Encephalitis, infectious-----082	23	23	23	197	162	156	1,938	1,475	1,475	June 1
Hepatitis, infectious, and serum-----092, 1998.5 pt.	615	274	504	4,434	2,563	4,049	9,851	6,882	11,958	Sept. 1
Malaria-----110-117	-	2	3	10	7	25	(2)	(2)	(2)	(2)
Measles-----085	15,606	21,263	19,382	87,646	104,633	101,918	139,035	143,073	143,073	Sept. 1
Meningococcal infections-----057	45	74	74	410	521	599	1,273	1,530	1,566	Sept. 1
Meningitis, other-----340	461	67	---	493	385	---	---	---	---	---
Polio myelitis-----080	25	14	53	171	134	702	6,013	5,534	28,973	Apr. 1
Paralytic-----080.0, 080.1	16	11	20	119	77	338	3,138	1,979	---	Apr. 1
Nonparalytic-----080.2	5	3	14	25	43	182	1,980	2,691	---	Apr. 1
Unspecified-----080.3	4	-	12	27	14	128	895	864	---	Apr. 1
Psittacosis-----096.2	5	2	5	14	17	39	(2)	(2)	(2)	(2)
Rabies in man-----094	-	-	-	-	1	1	(2)	(2)	(2)	(2)
Typhoid fever-----040	8	13	26	89	117	198	988	1,147	1,634	Apr. 1
Typhus fever, endemic-----101	1	1	1	5	7	9	69	97	124	Apr. 1
Rabies in animals-----	75	91	137	618	729	891	1,519	1,627	1,991	Oct. 1

<sup>1</sup>Data exclude reports from Mississippi and Nebraska for the current week.  
in incidence.

<sup>2</sup>Reported in California.

<sup>3</sup>Data show no pronounced seasonal change  
<sup>4</sup>Includes 13 cases of aseptic meningitis; see footnotes to table 2.

**EPIDEMIOLOGICAL REPORTS—Continued**

To date influenza B has been confirmed in 3 areas of the United States: Washington, D. C., metropolitan area, Michigan, and Iowa.

The total number of deaths reported by 114 cities was lower this week than last, but deaths reported for cities in the South Atlantic and Mountain Divisions were somewhat higher than average as shown in table 3.

The WHO Weekly Epidemiological Report for the week ended February 27 states that a new outbreak of respiratory illness began in West Germany about February 12. Schools were closed in several cities; and in two cities adults were also affected. A few serologic tests have been positive for influenza B. A number of cases of mild influenza have been observed in Belgium but not in epidemic proportions. Strains of virus similar to influenza A-2 have been isolated in different parts of Bulgaria. The illness, which is more common in large towns, is more severe among adults. Type B influenza is being reported in additional areas of France. Illnesses are mild. Some classes in schools of Berne and Zurich, Switzerland, have had to be closed because of influenza. In Canada a few cases of influenza are again being reported from Prince Edward Island.

For the week ended February 21 there was a sharp increase in number of deaths from influenza in England and Wales. Pneumonia deaths also increased but to a lesser extent. Most of the influenza deaths continue to be in older persons.

**Yellow fever**

The Division of Foreign Quarantine, Public Health Service, states that the yellow fever infection is confined to Nariva and Mayaro, counties in the southeast corner of the island of Trinidad. The United States yellow fever regulations are now being applied only to the local area of Nariva-Mayaro. The remainder of the island is officially reported to be free of infection.

**Infectious hepatitis**

The Mississippi Morbidity Report for the week ended February 13, 1959, states that of 27 cases of infectious hepatitis reported in Mississippi so far this year, 21 have occurred in Sunflower county. Seven cases were reported in 2 families living in the same general area but not related nor close neighbors. The onset date of the first case was December 28, 1958. Thirteen cases are grouped on 2 adjoining streets near the edge of a town. Of this group several of the ill persons in different homes are relatives and all of them are close neighbors. Onset of the first of these cases occurred January 1, 1959. No sequential pattern of onset has been indicated by school attendance.

**Typhoid fever**

Dr. W. R. Giedt, Washington State Department of Health, supplied information on several cases of typhoid fever among members of 1 family. The father, aged 28 years, became ill on January 10 in Missouri where he and his family had been visiting for about 7 weeks. His 2-year-old daughter developed similar but less acute symptoms on the same day. The family left for Washington on January 10 and arrived at the paternal grandfather's home where the family was living, on January 29.

The man was admitted to a hospital on January 29. Agglutination tests revealed a typhoid antibody titer of 1:320 for "O" type agglutination and 1:640 for "H" type agglutination. Salmonella typhi, phage type B-1, was isolated from a stool specimen. High fever, chills, nausea, vomiting, and severe headache lasted for 3 days after admission to the hospital and diarrhea lasted until February 3. On that day a rash appeared on his chest and abdomen and lasted for 2 days. He was clinically well on February 6 and was discharged on the 10th. On February 9 an 11-year-old daughter and a sister of the father developed spiking fever, headache, mild diarrhea, and nausea; they were hospitalized. A stool specimen from the daughter was positive for S. typhi. At the home where the family stayed in Missouri, water was obtained from a cement cistern which held run-off water from the roof of the house. At another home where they visited, water was obtained from a dug well. Meals were eaten at the homes of various relatives during the month prior to onset of the illness. The father had been vaccinated against typhoid fever about 4 years earlier when in military service.

**Trichinosis**

Dr. Dean Fisher, Maine Commissioner of Health and Welfare, reported a family outbreak of trichinosis following the ingestion of homemade sausage. Four of 5 members of a family became ill about 2 days after eating the sausage. Symptoms included fever, abdominal cramps, diarrhea, pain in the eyes, in the skeletal muscles, and in the region of the diaphragm; also puffy eyelids were demonstrated. One child was hospitalized; laboratory study revealed a 19-percent eosinophilia, and a skin test was positive. The one member of the family who did not become ill was a baby who did not eat any of the sausage. The father, employed by a meat processing company, obtained raw pork from one of the slaughter houses and made the sausage in his home.

**Gastro-enteritis**

Dr. Dean Fisher also supplied information on an outbreak of gastro-enteritis among members of a high school band who made an overnight trip to eastern Massachusetts to give a concert. There were 15 known cases among the 60 members of the band. The group spent the night in private homes. The only meal in common was a supper at a church served at 6:30 p. m. The menu included fricasseed chicken, rolls, jello salad, succotash, ice cream, cookies, and milk. The trip home began at 8:30 the following morning. A few of the group began to be ill at this time; and the other cases developed on the road, most occurring between 1½ and 2 hours after beginning the homeward trip. The symptoms were diarrhea and cramps, with no nausea. Stool specimens from the 15 ill persons were found negative for pathogenic organisms.

**Salmonellosis**

The Los Angeles City Morbidity and Mortality Weekly Report, week ended February 7, states that during 1958 Salmonella organisms, excluding Salmonella typhi, were isolated from specimens from 209 persons. This is a rate of 8.8 per 100,000 population. In 1957 the rate was 9.5 and in 1956 it was 9.3. Four outbreaks in public food establishments accounted for 17 percent of the total cases. The causative organisms were S. typhimurium, S. st. paul, S. san diego, S. give, and S. dublin. The age distribution of the 209 persons

Continued on page 8

# Morbidity and Mortality Weekly Report

3

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MARCH 1, 1958, AND FEBRUARY 28, 1959

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

AREA	BRUCELLOSIS (undulant fever) 044		DIPHTHERIA 055				ENCEPHALITIS, INFECTIOUS 082		HEPATITIS, INFECTIOUS, AND SERUM 092,N998.5 pt.			
			8th week		Cumulative first 8 weeks				8th week		Cumulative first 8 weeks	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES <sup>1</sup> -----	5	14	23	22	190	139	23	23	615	274	4,434	2,563
NEW ENGLAND-----	-	-	-	1	2	5	-	-	22	21	143	101
Maine-----	-	-	-	-	-	-	-	-	5	-	32	9
New Hampshire-----	-	-	-	-	-	-	-	-	-	1	-	1
Vermont-----	-	-	-	-	-	-	-	-	1	-	12	2
Massachusetts-----	-	-	-	-	2	4	-	-	8	14	53	55
Rhode Island-----	-	-	-	-	-	-	-	-	4	3	17	15
Connecticut-----	-	-	-	1	-	1	-	-	4	3	29	19
MIDDLE ATLANTIC-----	-	1	7	1	13	15	8	5	91	37	626	281
New York-----	-	1	2	-	6	10	3	5	59	24	379	165
New Jersey-----	-	-	5	-	6	-	-	-	11	6	84	39
Pennsylvania-----	-	-	-	1	1	5	5	-	21	7	163	77
EAST NORTH CENTRAL-----	2	3	-	-	11	5	1	6	90	43	683	442
Ohio-----	-	-	-	-	3	2	-	-	36	7	225	129
Indiana-----	-	-	-	-	-	1	-	2	23	7	83	50
Illinois-----	2	2	-	-	6	-	1	2	13	9	135	98
Michigan-----	-	1	-	-	-	2	-	2	16	14	203	144
Wisconsin-----	-	-	-	-	2	-	-	-	2	6	37	21
WEST NORTH CENTRAL <sup>1</sup> -----	1	5	2	7	9	13	1	-	40	12	392	189
Minnesota-----	-	2	1	-	4	-	-	-	9	3	81	20
Iowa-----	1	2	-	-	2	2	1	-	3	2	39	32
Missouri-----	-	-	1	7	1	7	-	-	16	4	92	27
North Dakota-----	-	-	-	-	-	1	-	-	9	2	86	31
South Dakota-----	-	-	-	-	-	-	-	-	-	-	2	1
Nebraska-----	-	-	-	-	12	3	-	-	-	1	123	13
Kansas-----	-	1	-	-	-	-	-	-	3	-	69	65
SOUTH ATLANTIC-----	-	-	10	7	40	45	4	4	69	17	517	198
Delaware-----	-	-	-	-	-	-	-	-	-	-	21	4
Maryland-----	-	-	-	-	-	1	1	1	10	-	138	21
District of Columbia-----	-	-	-	-	-	-	-	-	-	2	6	4
Virginia-----	-	-	-	2	3	7	3	1	16	4	110	55
West Virginia-----	-	-	-	1	1	-	-	1	32	2	158	27
North Carolina-----	-	-	-	-	6	8	-	-	-	2	31	14
South Carolina-----	-	-	-	-	4	7	-	-	-	1	6	7
Georgia-----	-	-	4	2	11	13	-	-	5	2	11	22
Florida-----	-	-	6	3	15	8	-	1	6	4	36	44
EAST SOUTH CENTRAL <sup>1</sup> -----	1	2	-	-	29	10	-	1	72	26	401	239
Kentucky-----	-	-	-	-	1	1	-	-	39	15	221	127
Tennessee-----	1	2	-	-	3	3	-	-	22	6	70	68
Alabama-----	-	-	-	-	7	5	-	1	11	4	81	37
Mississippi-----	-	-	-	-	18	1	-	-	-	1	129	7
WEST SOUTH CENTRAL-----	-	-	4	4	76	31	-	-	34	33	251	202
Arkansas-----	-	-	1	2	25	6	-	-	1	2	14	16
Louisiana-----	-	-	-	-	25	1	-	-	2	-	27	3
Oklahoma-----	-	-	1	-	1	8	-	-	2	3	34	35
Texas-----	-	-	2	2	25	16	-	-	29	28	176	148
MOUNTAIN-----	-	1	-	2	7	13	-	-	71	40	692	451
Montana-----	-	-	-	-	-	4	-	-	7	9	71	74
Idaho-----	-	-	-	-	-	-	-	-	11	1	108	45
Wyoming-----	-	-	-	-	-	2	-	-	-	-	31	3
Colorado-----	-	-	-	-	2	5	-	-	18	6	191	34
New Mexico-----	-	-	-	2	4	2	-	-	9	9	143	87
Arizona-----	-	-	-	-	-	-	-	-	20	8	100	127
Utah-----	-	-	-	-	-	-	-	-	5	6	37	38
Nevada-----	-	1	-	-	1	-	-	-	1	1	11	43
PACIFIC-----	1	2	-	-	3	2	9	7	126	45	729	460
Alaska-----	-	-	-	-	1	-	-	-	2	-	7	(35)
Washington-----	-	-	-	-	-	-	-	-	9	16	112	98
Oregon-----	-	1	-	-	1	1	-	-	25	4	150	46
California-----	1	1	-	-	1	1	9	7	90	25	460	316
Hawaii-----	-	-	-	-	1	-	-	-	-	1	10	11
Puerto Rico-----	-	-	-	1	7	9	-	-	4	-	27	29

<sup>1</sup>Data exclude reports from Nebraska and Mississippi for the current week.

## Morbidity and Mortality Weekly Report

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MARCH 1, 1958, AND FEBRUARY 28, 1959—Continued

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

AREA	POLIOMYELITIS 080										MEASLES	
	Total <sup>2</sup>				Paralytic 080.0,080.1				Nonparalytic		085	
	8th week		Cumulative first 8 weeks		8th week		Cumulative first 8 weeks		080.2		085	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES <sup>1</sup> -----	25	14	171	134	16	11	119	77	5	3	15,606	21,263
NEW ENGLAND-----	-	1	2	3	-	-	2	2	-	1	974	2,582
Maine-----	-	-	-	2	-	-	-	2	-	-	67	79
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	10	124
Vermont-----	-	-	1	-	-	-	1	-	-	-	87	69
Massachusetts-----	-	1	1	1	-	-	1	-	-	1	210	1,293
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	2	396
Connecticut-----	-	-	-	-	-	-	-	-	-	-	598	621
MIDDLE ATLANTIC-----	3	1	14	7	-	1	1	4	1	-	4,192	3,931
New York-----	2	1	9	7	-	1	-	4	-	-	508	2,655
New Jersey-----	-	-	2	-	-	-	-	-	-	-	1,616	623
Pennsylvania-----	1	-	3	-	-	-	1	-	1	-	2,068	653
EAST NORTH CENTRAL-----	1	1	11	13	1	1	9	8	-	-	1,504	3,697
Ohio-----	1	-	4	1	1	-	2	-	-	-	374	225
Indiana-----	-	-	-	1	-	-	-	1	-	-	196	878
Illinois-----	-	1	-	3	-	1	-	2	-	-	250	464
Michigan-----	-	-	6	6	-	-	6	3	-	-	211	405
Wisconsin-----	-	-	1	2	-	-	1	2	-	-	473	1,725
WEST NORTH CENTRAL <sup>1</sup> -----	2	-	15	3	-	-	9	3	1	-	1,012	238
Minnesota-----	-	-	-	1	-	-	-	1	-	-	80	35
Iowa-----	-	-	-	1	-	-	-	1	-	-	575	72
Missouri-----	-	-	10	-	-	-	8	-	-	-	151	30
North Dakota-----	1	-	1	-	-	-	-	-	1	-	199	86
South Dakota-----	-	-	1	1	-	-	-	1	-	-	7	-
Nebraska-----	-	-	11	-	-	-	11	-	-	-	-	15
Kansas-----	1	-	2	-	-	-	-	-	-	-	(*)	(*)
SOUTH ATLANTIC-----	8	3	39	13	7	3	28	16	1	-	1,568	2,453
Delaware-----	1	-	1	-	1	-	1	-	-	-	30	32
Maryland-----	-	-	-	-	-	-	-	-	-	-	40	378
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	1	99
Virginia-----	-	-	2	1	-	-	2	1	-	-	463	622
West Virginia-----	2	2	7	3	2	2	6	3	-	-	645	430
North Carolina-----	1	-	2	8	1	-	2	2	-	-	102	203
South Carolina-----	2	1	4	2	2	1	3	1	-	-	122	378
Georgia-----	-	-	1	4	-	-	1	3	-	-	39	141
Florida-----	2	-	22	15	1	-	13	6	1	-	126	170
EAST SOUTH CENTRAL <sup>1</sup> -----	-	1	15	15	-	-	11	8	-	1	951	2,424
Kentucky-----	-	1	4	9	-	-	3	5	-	1	402	1,163
Tennessee-----	-	-	4	1	-	-	3	-	-	-	465	1,028
Alabama-----	-	-	1	3	-	-	-	3	-	-	84	159
Mississippi-----	-	-	16	2	-	-	15	-	-	-	-	74
WEST SOUTH CENTRAL-----	3	-	37	18	2	-	29	13	1	-	1,160	2,940
Arkansas-----	-	-	9	2	-	-	9	2	-	-	1	78
Louisiana-----	-	-	3	5	-	-	2	4	-	-	1	16
Oklahoma-----	-	-	3	-	-	-	2	-	-	-	20	169
Texas-----	3	-	22	11	2	-	16	7	1	-	1,138	2,677
MOUNTAIN-----	1	-	6	12	1	-	4	3	-	-	1,207	1,065
Montana-----	-	-	-	-	-	-	-	-	-	-	172	171
Idaho-----	-	-	-	-	-	-	-	-	-	-	61	195
Wyoming-----	-	-	-	1	-	-	-	1	-	-	17	18
Colorado-----	-	-	-	-	-	-	-	-	-	-	290	68
New Mexico-----	-	-	3	8	-	-	1	1	-	-	79	280
Arizona-----	1	-	3	2	1	-	3	1	-	-	472	294
Utah-----	-	-	-	1	-	-	-	-	-	-	109	35
Nevada-----	-	-	-	-	-	-	-	-	-	-	7	4
PACIFIC-----	7	7	32	30	5	6	26	20	1	1	3,038	1,933
Alaska-----	-	-	-	-	-	-	-	-	-	-	43	(20)
Washington-----	1	-	2	-	-	-	-	-	-	-	757	448
Oregon-----	-	3	2	4	-	3	2	3	-	-	368	393
California-----	6	4	28	26	5	3	24	17	1	1	1,870	1,092
Hawaii-----	-	-	3	1	-	-	3	1	-	-	54	7
Puerto Rico-----	1	1	3	16	1	1	3	13	-	-	54	38

<sup>1</sup>Data exclude reports from Nebraska and Mississippi for the current week.<sup>2</sup>Includes cases not specified by type, category number 080.3.

# Morbidity and Mortality Weekly Report

5

Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MARCH 1, 1958, AND FEBRUARY 28, 1959—Continued

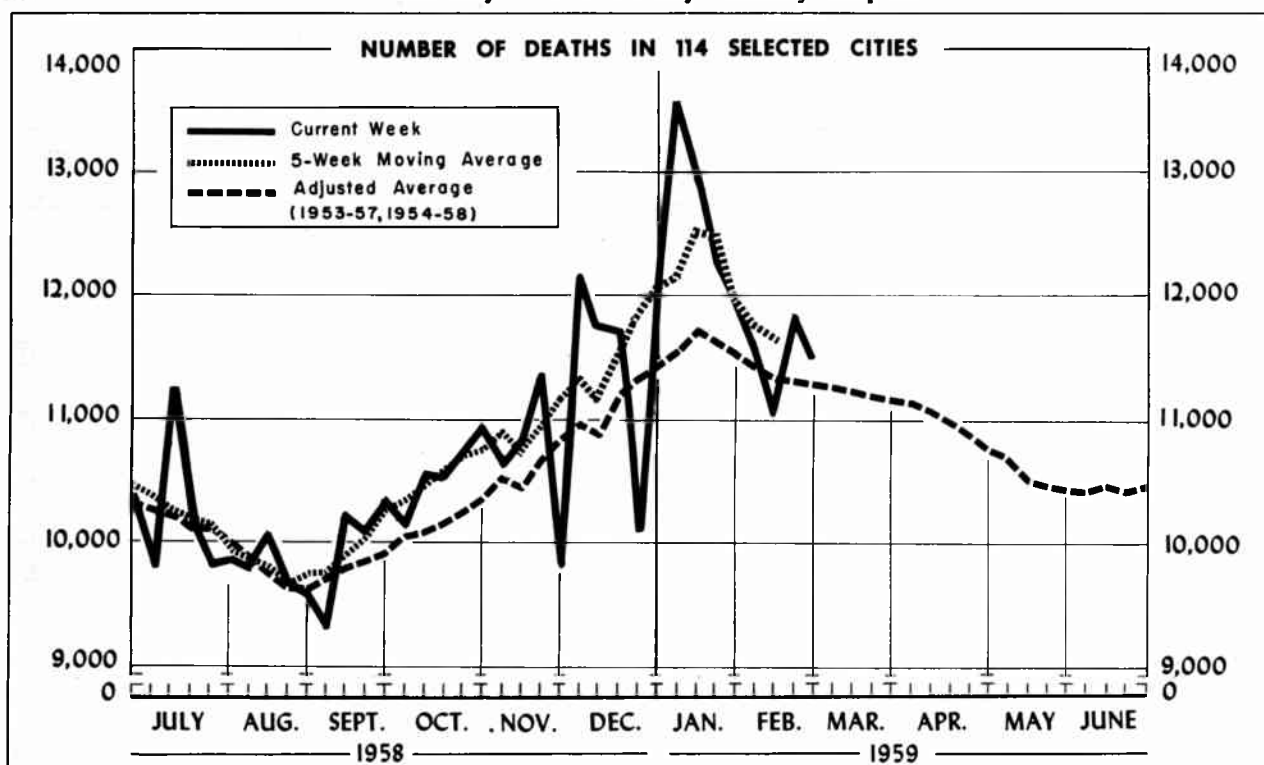
(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

AREA	MALARIA	MENINGOCOCCAL INFECTIONS		MENINGITIS, OTHER	PSITTACOSIS	TYPHOID FEVER 040				TYPHUS FEVER, ENDEMIC	RABIES IN ANIMALS	
	110-117	057		340	096.2	8th week		Cumulative first 8 weeks		101		
	1959	1959	1958	1959	1959	1959	1958	1959	1958	1959	1959	1958
CONT. UNITED STATES <sup>1</sup> -----	-	45	74	61	5	8	13	89	117	1	75	91
NEW ENGLAND-----	-	3	-	8	-	-	-	1	1	-	-	-
Maine-----	-	-	-	2	-	-	-	-	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	1	-	4	-	-	-	-	1	-	-	-
Rhode Island-----	-	2	-	2	-	-	-	1	-	-	-	-
Connecticut-----	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC-----	-	8	6	-	-	-	1	11	14	-	-	4
New York-----	-	2	-	-	-	-	-	5	2	-	-	1
New Jersey-----	-	1	4	-	-	-	1	2	6	-	-	-
Pennsylvania-----	-	5	2	-	-	-	-	4	6	-	-	3
EAST NORTH CENTRAL-----	-	7	17	8	2	2	2	7	14	-	6	16
Ohio-----	-	2	3	-	-	-	-	4	3	-	3	-
Indiana-----	-	-	2	-	-	1	-	2	4	-	1	5
Illinois-----	-	2	5	8	-	1	-	1	-	-	-	-
Michigan-----	-	3	4	-	-	-	1	-	3	-	-	-
Wisconsin-----	-	-	3	-	2	-	1	-	4	-	2	11
WEST NORTH CENTRAL <sup>1</sup> -----	-	2	5	-	-	-	1	5	17	-	22	16
Minnesota-----	-	2	3	-	-	-	-	-	2	-	9	4
Iowa-----	-	-	-	-	-	-	-	-	4	-	2	8
Missouri-----	-	-	1	-	-	-	1	3	9	-	6	1
North Dakota-----	-	-	-	-	-	-	-	1	-	-	5	1
South Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska-----	-	-	-	-	-	-	-	1	1	-	-	2
Kansas-----	-	-	1	-	-	-	-	1	1	-	-	-
SOUTH ATLANTIC-----	-	7	19	11	-	1	-	18	17	-	14	20
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-
Maryland-----	-	-	2	2	-	-	-	-	1	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	1	-	-	-
Virginia-----	-	2	4	4	-	1	-	2	1	-	4	11
West Virginia-----	-	-	2	1	-	-	-	1	1	-	2	3
North Carolina-----	-	-	3	-	-	-	-	5	9	-	3	-
South Carolina-----	-	2	-	-	-	-	-	1	1	-	1	3
Georgia-----	-	-	3	1	-	-	-	1	-	-	4	1
Florida-----	-	3	5	3	-	-	-	8	3	-	-	2
EAST SOUTH CENTRAL <sup>1</sup> -----	-	3	11	1	-	-	2	9	13	-	15	18
Kentucky-----	-	1	3	-	-	-	2	1	4	-	8	8
Tennessee-----	-	-	3	1	-	-	-	5	3	-	2	5
Alabama-----	-	2	3	-	-	-	-	2	5	-	5	5
Mississippi-----	-	-	2	-	-	-	-	1	1	-	-	-
WEST SOUTH CENTRAL-----	-	8	7	13	-	-	3	15	22	1	18	12
Arkansas-----	-	-	1	-	-	-	-	3	-	-	3	2
Louisiana-----	-	1	5	-	-	-	1	4	10	-	2	-
Oklahoma-----	-	1	-	2	-	-	-	3	-	-	-	1
Texas-----	-	6	1	11	-	-	2	5	12	1	13	9
MOUNTAIN-----	-	1	4	6	-	1	2	8	4	-	-	1
Montana-----	-	-	-	3	-	-	-	1	-	-	-	-
Idaho-----	-	-	-	-	-	-	2	2	2	-	-	-
Wyoming-----	-	-	1	-	-	-	-	1	-	-	-	-
Colorado-----	-	1	-	3	-	-	-	-	-	-	-	-
New Mexico-----	-	-	2	-	-	-	-	1	1	-	-	-
Arizona-----	-	-	-	-	-	1	-	3	1	-	-	1
Utah-----	-	-	-	-	-	-	-	-	-	-	-	-
Nevada-----	-	-	1	-	-	-	-	-	-	-	-	-
PACIFIC-----	-	6	5	14	3	4	2	15	15	-	-	4
Alaska-----	-	-	(1)	-	-	-	-	-	-	-	-	-
Washington-----	-	-	1	1	-	1	-	1	-	-	-	-
Oregon-----	-	-	-	2	-	-	-	1	3	-	-	-
California-----	-	6	4	11	3	3	2	13	12	-	-	4
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico-----	-	-	-	1	-	-	-	1	2	-	-	-

<sup>1</sup>Data exclude reports from Nebraska and Mississippi for the current week.

<sup>2</sup>Includes 2 cases of aseptic meningitis.

<sup>3</sup>Aseptic meningitis.



The chart shows the number of deaths reported for 114 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, 1954-58, for comparison. The adjusted average is computed as follows: From the total deaths reported each week for the years 1954-58, 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 2.3 percent to allow for estimated population growth in the cities.

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 a specified city. 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 made for use in plotting the figure in the chart.

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 114 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	8th week ended Feb. 28, 1959	7th week ended Feb. 21, 1959	Adjusted average, 8th week 1954-58	Percent change, adjusted average to current week <sup>1</sup>	CUMULATIVE NUMBER FIRST 8 WEEKS		
					1959	1958	Percent change
TOTAL, REPORTING CITIES-----	<sup>2</sup> 11,500	11,879	11,312	+1.7	<sup>2</sup> 96,774	103,504	-6.5
New England----- (14 cities)	2,795	692	758	+4.9	26,129	6,298	-2.7
Middle Atlantic----- (20 cities)	3,234	3,460	3,349	-3.4	27,835	30,435	-8.5
East North Central----- (19 cities)	2,438	2,504	2,425	+0.5	20,561	22,278	-7.7
West North Central----- (9 cities)	<sup>2</sup> 809	933	802	+0.9	26,908	7,213	-4.2
South Atlantic----- (11 cities)	1,036	970	937	+10.6	8,302	9,190	-9.7
East South Central----- (8 cities)	520	478	504	+3.2	4,466	4,952	-9.8
West South Central----- (13 cities)	926	961	906	+2.2	8,166	8,873	-8.0
Mountain----- (8 cities)	<sup>2</sup> 302	368	269	+12.3	22,697	2,556	+5.5
Pacific----- (12 cities)	1,440	1,513	1,391	+3.5	11,710	11,709	+0.0

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

<sup>2</sup>Includes estimate 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	8th week ended Feb. 28, 1959	7th week ended Feb. 21, 1959	CUMULATIVE NUMBER FIRST 8 WEEKS		AREA	8th week ended Feb. 28, 1959	7th week ended Feb. 21, 1959	CUMULATIVE NUMBER FIRST 8 WEEKS	
			1959	1958				1959	1958
NEW ENGLAND:									
Boston, Mass.-----	268	236	2,044	2,144	WEST NORTH CENTRAL—Con.:				
Bridgeport, Conn.-----	41	58	359	373	St. Louis, Mo.-----	256	303	2,148	2,445
Cambridge, Mass.-----	28	34	246	269	St. Paul, Minn.-----	82	57	570	650
Fall River, Mass.-----	33	24	244	236	Wichita, Kans.-----	32	51	402	396
Hartford, Conn.-----	55	43	413	447	SOUTH ATLANTIC:				
Lowell, Mass.-----	<sup>1</sup> 27	28	<sup>2</sup> 204	225	Atlanta, Ga.-----	132	87	950	994
Lynn, Mass.-----	21	23	195	174	Baltimore, Md.-----	250	292	2,044	2,334
New Bedford, Mass.-----	26	30	204	234	Charlotte, N. C.-----	34	46	305	290
New Haven, Conn.-----	61	38	402	411	Jacksonville, Fla.-----	54	52	495	624
Providence, R. I.-----	68	65	598	597	Miami, Fla.-----	64	52	620	704
Somerville, Mass.-----	12	13	133	118	Norfolk, Va.-----	44	42	374	339
Springfield, Mass.-----	53	34	382	340	Richmond, Va.-----	94	90	662	634
Waterbury, Conn.-----	25	21	218	246	Savannah, Ga.-----	29	30	307	326
Worcester, Mass.-----	77	45	487	484	St. Petersburg, Fla.-----	(78)	(60)	(609)	(674)
					Tampa, Fla.-----	81	48	564	663
					Washington, D. C.-----	212	183	1,631	1,943
					Wilmington, Del.-----	42	48	350	339
MIDDLE ATLANTIC:									
Albany, N. Y.-----	65	64	468	488	EAST SOUTH CENTRAL:				
Allentown, Pa.-----	32	42	301	294	Birmingham, Ala.-----	73	77	740	830
Buffalo, N. Y.-----	149	179	1,169	1,394	Chattanooga, Tenn.-----	51	35	378	455
Camden, N. J.-----	39	40	320	395	Knoxville, Tenn.-----	29	32	256	251
Elizabeth, N. J.-----	33	32	239	296	Louisville, Ky.-----	111	87	937	1,042
Erie, Pa.-----	33	38	304	292	Memphis, Tenn.-----	135	110	1,036	1,076
Jersey City, N. J.-----	61	93	661	678	Mobile, Ala.-----	35	55	334	405
Newark, N. J.-----	99	130	907	944	Montgomery, Ala.-----	30	29	266	359
New York City, N. Y.-----	1,696	1,717	14,074	15,727	Nashville, Tenn.-----	56	53	519	534
Paterson, N. J.-----	47	35	330	431	WEST SOUTH CENTRAL:				
Philadelphia, Pa.-----	471	536	4,449	4,606	Austin, Tex.-----	38	26	248	300
Pittsburgh, Pa.-----	167	180	1,640	1,781	Baton Rouge, La.-----	24	29	260	283
Reading, Pa.-----	24	23	208	186	Corpus Christi, Tex.-----	24	22	179	207
Rochester, N. Y.-----	101	103	831	880	Dallas, Tex.-----	114	121	1,008	1,046
Schenectady, N. Y.-----	14	28	191	220	El Paso, Tex.-----	33	50	318	347
Scranton, Pa.-----	40	48	340	283	Fort Worth, Tex.-----	70	84	535	578
Syracuse, N. Y.-----	66	63	505	527	Houston, Tex.-----	103	135	1,285	1,509
Trenton, N. J.-----	37	42	382	479	Little Rock, Ark.-----	54	59	511	452
Utica, N. Y.-----	39	35	263	254	New Orleans, La.-----	203	172	1,477	1,734
Yonkers, N. Y.-----	21	32	253	280	Oklahoma City, Okla.-----	79	65	597	621
					San Antonio, Tex.-----	78	112	826	901
					Shreveport, La.-----	58	49	497	439
					Tulsa, Okla.-----	48	37	425	456
EAST NORTH CENTRAL:									
Akron, Ohio-----	63	71	508	511	MOUNTAIN:				
Canton, Ohio-----	40	42	300	262	Albuquerque, N. Mex.-----	28	45	286	218
Chicago, Ill.-----	793	764	6,421	7,415	Colorado Springs, Colo.-----	10	21	133	112
Cincinnati, Ohio-----	155	168	1,420	1,465	Denver, Colo.-----	110	111	965	1,030
Cleveland, Ohio-----	213	215	1,826	1,917	Ogden, Utah-----	<sup>1</sup> 10	22	<sup>2</sup> 123	118
Columbus, Ohio-----	114	105	954	1,048	Phoenix, Ariz.-----	50	73	488	413
Dayton, Ohio-----	77	76	551	672	Pueblo, Colo.-----	14	14	108	100
Detroit, Mich.-----	347	342	2,854	2,928	Salt Lake City, Utah-----	56	45	389	381
Evansville, Ind.-----	42	44	313	339	Tucson, Ariz.-----	24	37	205	184
Flint, Mich.-----	31	49	326	339	PACIFIC:				
Fort Wayne, Ind.-----	44	30	297	338	Berkeley, Calif.-----	23	15	159	172
Gary, Ind.-----	40	29	292	292	Fresno, Calif.-----	(55)	(37)	(353)	(302)
Grand Rapids, Mich.-----	37	56	352	392	Glendale, Calif.-----	(29)	(51)	(318)	(286)
Indianapolis, Ind.-----	129	139	1,248	1,077	Long Beach, Calif.-----	53	61	482	482
Madison, Wis.-----	(22)	(33)	(233)	(241)	Los Angeles, Calif.-----	527	531	4,258	4,360
Milwaukee, Wis.-----	107	154	1,151	1,325	Oakland, Calif.-----	97	93	804	815
Peoria, Ill.-----	40	34	245	297	Pasadena, Calif.-----	34	35	263	302
Rockford, Ill.-----	(26)	(23)	(244)	(246)	Portland, Oreg.-----	144	96	961	812
South Bend, Ind.-----	23	27	231	244	Sacramento, Calif.-----	52	53	431	432
Toledo, Ohio-----	92	105	804	972	San Diego, Calif.-----	60	86	700	688
Youngstown, Ohio-----	51	54	468	445	San Francisco, Calif.-----	220	257	1,716	1,764
					San Jose, Calif.-----	(20)	(27)	(225)	(180)
					Seattle, Wash.-----	138	163	1,174	1,168
					Spokane, Wash.-----	52	66	429	394
					Tacoma, Wash.-----	40	57	333	320
					Honolulu, Hawaii-----	(31)	(41)	(303)	(319)
WEST NORTH CENTRAL:									
Des Moines, Iowa-----	58	72	483	480					
Duluth, Minn.-----	20	37	222	205					
Kansas City, Kans.-----	<sup>1</sup> 31	29	<sup>2</sup> 251	257					
Kansas City, Mo.-----	131	129	1,085	1,105					
Lincoln, Nebr.-----	(25)	(32)	(226)	(224)					
Minneapolis, Minn.-----	136	174	1,098	1,080					
Omaha, Nebr.-----	63	81	649	595					

<sup>1</sup>Estimated.

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

## EPIDEMIOLOGICAL REPORTS—Continued

was from 3 weeks to 84 years; 53 percent of the cases occurred in persons under 10 years of age and 30 percent in the age group 0-4 years. The incidence was 33 percent greater among females than among males due to the greater incidence in females in the age groups 0-4 years and 55-90 years. There were 6 deaths in which 5 species of organisms were found. The case fatality rate was 3 percent.

A total of 27 species of Salmonella were isolated; 10 in group B, 11 in group C, 3 in group D, 2 in group E, and 1 in group G. The species isolated from 10 or more persons were S. typhimurium (72), S. st. paul (23), S. oranienburg (16), S. newport (14), S. montevideo (13), S. infantis (11), and S. give (10).

Revised information has been received from the Wisconsin State Board of Health about the 4 cases of salmonellosis related to contact with diseased dairy cattle, reported last week. The first cow to become ill developed a severe diarrhea on September 22. Similar symptoms developed 2 days later in 4 other animals housed in the same barn. One of the farmers became ill with severe diarrhea, fever, and prostration on September 29. A total of 72 animals were housed in the same barn that housed the 5 animals with clinical illness. The diseased animals recovered from the acute symptoms within about 2 weeks. The rest of the information is the same as published last week.

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## QUARANTINE MEASURES

Immunization Information for International Travel

No changes reported.

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## 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--	( )

## SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from health departments of each State and of Hawaii and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Cumulative totals are routinely revised to include corrected and revised figures and delayed reports. In table 1, data for Alaska are included for 1959 but not for prior years. In table 2, total figures for the United States and the Pacific Division include figures for Alaska for 1959 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 (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) are reported, this will be noted below table 1.

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