

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 May 16, 1959

EPIDEMIOLOGICAL REPORTS

Influenza

Dr. Klaus Hummeler, University of Pennsylvania, reports that since March 30 sera from 9 sporadic cases showed evidence of influenza B infection by complement fixation tests. An outbreak of influenza A occurred in a preparatory school. There were 7 cases, ranging in age from 14 to 18 years. Complement fixation tests were positive for influenza type A2 in 8 cases, one-half of which occurred in Philadelphia. No sharp epidemics of influenza were reported in the area, but numerous respiratory illnesses were found to be adenovirus infections.

Miss A. Corpening, Virginia Department of Health, reports that 5 paired sera collected during an epidemic showed serologic evidence of type B influenza. No isolations of virus were made from specimens submitted.

Current mortality

Mortality for the current week from all causes for the second consecutive week was lower than that reported for the previous week, but still significantly above the average numbers reported for the years 1954-58. This is the 10th consecutive week for which mortality from all causes has been higher than average. By geographic division, deaths were high for the Middle Atlantic, South Atlantic, and Mountain Divisions.

For influenza and pneumonia, mortality has been higher than average for 13 consecutive weeks. However, for the past 5 weeks, the mortality has been decreasing. By geographic division, deaths were high for the Middle Atlantic, East North Central, West North Central, and East South Central Divisions.

Continued on page 2

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

(See page 8 for source and nature of data)

DISEASE (Seventh Revision of International Lists, 1955)	19th WEEK			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended May 16, 1959 ¹	Ended May 17, 1958	Median 1954-58	First 19 weeks			Since seasonal low week			
				1959 ¹	1958	Median 1954-58	1953-59 ¹	1957-58	Median 1953-54 to 1957-58	
Anthrax-----062	-	1	-	5	2	9	(2)	(2)	(2)	(2)
Botulism-----049.1	31	-	-	3	2	2	(2)	(2)	(2)	(2)
Brucellosis (undulant fever)-----044	3	16	26	250	268	350	(2)	(2)	(2)	(2)
Diphtheria-----055	18	11	16	330	272	572	942	1,070	1,808	July 1
Encephalitis, infectious-----082	26	29	30	522	526	470	2,263	1,839	1,818	June 1
Hepatitis, infectious, and serum-----092, W998.5 pt.	336	352	352	9,729	6,318	9,121	15,146	10,637	17,030	Sept. 1
Malaria-----110-117	-	3	5	25	20	68	(2)	(2)	(2)	(2)
Measles-----085	14,819	38,209	29,483	265,468	493,726	392,507	316,857	532,166	436,128	Sept. 1
Meningococcal infections-----057	46	38	63	1,040	1,137	1,275	1,903	2,146	2,242	Sept. 1
Meningitis, other-----340	457	36	---	1,195	932	---	---	---	---	---
Poliomyelitis-----080	38	25	85	446	309	1,543	178	122	564	Apr. 1
Paralytic-----080.0, 080.1	18	13	40	301	160	783	114	57	298	Apr. 1
Nonparalytic-----080.2	15	5	36	84	94	443	39	35	181	Apr. 1
Unspecified-----080.3	5	7	9	61	55	271	25	30	85	Apr. 1
Psittacosis-----096.2	2	4	9	45	57	110	(2)	(2)	(2)	(2)
Rabies in man-----094	-	-	-	-	2	2	(2)	(2)	(2)	(2)
Typhoid fever-----040	16	19	33	198	274	498	74	108	201	Apr. 1
Typhus fever, endemic-----101	-	1	3	10	16	29	4	5	13	Apr. 1
Rabies in animals-----	68	86	95	1,503	1,911	2,244	2,394	2,809	3,344	Oct. 1

¹Data exclude report from Pennsylvania for the current week.

²Data show no pronounced seasonal change in incidence.

³Reported in Mississippi.

⁴Includes 11 cases of aseptic meningitis; see footnote to table 2.

EPIDEMIOLOGICAL REPORTS—Continued

Measles

Information from Dr. Harry V. Gibson, Alaska Department of Health, states that 98 cases of measles were reported in a small community in southeastern Alaska. The community has a population of 626 persons; of these about 300 are children. Ninety-five of the cases occurred in Indian children.

Chemical food poisoning

Mr. Richard Dern, Sandusky County, Ohio, Department of Health, reported that 16 members of 3 families became ill following the consumption of ground beef to which a substance to preserve the red color of the meat had been added. Onset of illness occurred from 10 to 20 minutes after the ingestion of either meat loaf or chop suey prepared with the ground beef. In each individual the symptoms were very similar and consisted of marked flushing of the face and body, accompanied by a sensation of heat and itching. The symptoms lasted from a few minutes to an hour and were not associated with any other symptoms such as nausea, vomiting, and headache. The material contained between 11.7 and 14.2 percent niacin in 3 different samples and also contained from 6.2 to 7.1 percent ascorbic acid. A sample of the chop suey consumed by 1 family contained 17.5 mg. of niacin per ounce. The product involved in this outbreak was manufactured by a company that supplied material involved in an outbreak in Nebraska about 2 years ago. However, the trade names were not the same.

Salmonellosis

Dr. C. S. Mollohan, Colorado State Department of Public Health, supplied information on an outbreak of salmonellosis among persons who attended a smorgasbord dinner. Of a total of 180 persons, 130 became ill with vomiting and diarrhea from 12 to 18 hours after eating the meal. Specimens from more than 25 of the individuals were positive for *Salmonella st. pauli*. It was not possible to culture any of the foods, but it was thought the food vehicle may have been turkey salad or ham salad.

Dr. D. S. Fleming, Minnesota State Department of Health, reported that strains of *S. blockley* were isolated from a stool specimen from a 31-year-old woman who suffered a diarrheal illness while on a ship sailing from New York City for a Caribbean cruise.

The California Department of Public Health reported that 8 of 9 persons became ill 27 to 30 hours after eating a turkey dinner and turkey sandwiches. All 8 persons suffered from cramps, nausea, vomiting, and fever. No diarrhea was noted. The symptoms lasted about 36 hours. The turkey was purchased frozen and then left overnight at room temperature before it was refrigerated again for about 24 hours; then it was prepared. A sample of the turkey was positive for *S. typhimurium*.

Staphylococcal food poisoning

Three reports of staphylococcal food poisoning have been received from the California Department of Public Health. One report stated that 53 of 90 persons became ill from 6 to 14 hours after eating a meal consisting of vegetable salad, cold corned beef, pizza, and French bread. Symptoms were abdominal cramps and diarrhea which lasted about 24 hours. The salad was prepared from commercially canned vegetables and was refrigerated until served. The corned beef was refrigerated after cooking and again after slicing until it was served. The pizza was served hot. The dinner was arranged as a buffet and all the foods were placed on trays in the room and left until they were

consumed. All of the foods were positive for hemolytic coagulase-positive *Staphylococcus aureus* and specimens from 2 of the 5 food handlers were also positive.

Another report concerned 2 of 5 persons who became ill after eating cold ham. Symptoms of nausea and vomiting began 1½ and 3½ hours after eating, and later cramps and diarrhea also developed. A "precooked" ham was baked for 3½ hours at 350° F. After being served at that time it was cooled and refrigerated overnight and eaten cold the following day. Many colonies of golden-pigmented, coagulase-positive, gram-positive cocci were isolated from a sample of the ham.

The third report stated that 3 persons who ate a mixed salad of beans, eggs, and cabbage became ill with diarrhea, vomiting, and severe abdominal cramping. One person was hospitalized. The food was prepared in a store kitchen and kept in the refrigerator until taken to a delicatessen. It was thought probably too much food was stored in the refrigerator at one time. One food handler in the delicatessen had an ear infection and another, a probable streptococcal sore throat. A sample of the salad revealed *Micrococcus pyogenes var. aureus*.

Gastro-enteritis

A number of reports of gastro-enteritis of undetermined etiology also were received from the California State Department of Public Health. One report stated that about 30 persons in a county home became ill after eating a meal which included Spanish rice and creamed chicken and noodles. A total of 315 persons ate the meal. Those who became ill had eaten the chicken and those who did not become ill had eaten only the Spanish rice. The incubation ranged from 4 to 12 hours and the symptoms lasted about 24 hours. One of the 5 cooks who prepared the meal had an abscessed cyst on his elbow, and another had burns on his hands. No food was available for laboratory examination and stool specimens from 3 of the ill persons were negative for *Salmonella* and *Shigella* organisms.

In another report, 51 persons of 4 groups who ate luncheon in separate dining rooms at an auditorium became ill with mild cramps and diarrhea from 6 to 19 hours after the meal. The suspect food was ham julienne on the dinner salad. The man who prepared the salad and sliced the ham suffered from a cold and diarrhea at the time the suspect food was prepared. Investigation revealed that the ham and turkey used in the salad were unrefrigerated for several hours after cooking. Specimens from 24 persons were negative.

A third report stated that 3 persons became ill about 18 or 20 hours after the suspect meal. One of the victims was found unconscious and was noted to have excreted a reddish substance from the bowels or bladder. This person died in a hospital the following day. However, the autopsy report stated death was due to pneumonia. Specimens from the other 2 individuals were negative.

The other reports were about outbreaks of only a few cases each, most of which occurred in private homes. Usually no specimens were available for laboratory examination and in the few instances when some laboratory tests were made the results were negative. The suspect foods involved were: meat, sauce, and potatoes; meat balls and sausage sauce; turkey; pork and beef dip sandwiches; roast pork; baked ham; chocolate eclairs; and fondant-filled Boston pies.

QUARANTINE MEASURES

Immunization Information for International Travel

No changes reported

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MAY 17, 1958, AND MAY 16, 1959

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

AREA	BRUCELLOSIS (undulant fever)		DIPHTHERIA OSS				ENCEPHALITIS, INFECTION		HEPATITIS, INFECTION, AND SERUM 092,N998.5 pt.			
	044		19th week		Cumulative first 19 weeks		082		19th week		Cumulative first 19 weeks	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES ¹ -----	3	16	18	11	330	272	26	29	336	352	9,729	6,318
NEW ENGLAND-----	-	-	-	-	4	5	-	3	15	10	314	223
Maine-----	-	-	-	-	-	-	-	-	1	5	54	41
New Hampshire-----	-	-	-	-	-	-	-	-	1	-	9	1
Vermont-----	-	-	-	-	-	-	-	-	-	-	17	7
Massachusetts-----	-	-	-	-	4	4	-	3	7	2	141	95
Rhode Island-----	-	-	-	-	-	-	-	-	3	1	33	34
Connecticut-----	-	-	-	-	-	1	-	-	3	1	60	45
MIDDLE ATLANTIC ¹ -----	-	-	5	-	31	27	4	6	45	57	1,374	731
New York-----	-	-	3	-	17	13	3	5	36	40	829	480
New Jersey-----	-	-	2	-	9	1	1	1	9	6	167	69
Pennsylvania-----	-	-	-	-	15	13	-	-	-	11	1,378	182
EAST NORTH CENTRAL-----	-	2	-	-	17	25	2	3	68	63	1,580	1,138
Ohio-----	-	-	-	-	5	6	-	1	25	14	471	350
Indiana-----	-	-	-	-	1	11	-	1	10	2	169	115
Illinois-----	-	2	-	-	8	3	-	-	19	15	310	308
Michigan-----	-	-	-	-	1	4	2	1	9	25	535	311
Wisconsin-----	-	-	-	-	2	1	-	-	5	7	95	54
WEST NORTH CENTRAL-----	1	13	-	2	30	32	-	2	28	31	788	603
Minnesota-----	1	1	-	2	14	4	-	-	14	5	183	67
Iowa-----	-	1	-	-	2	5	-	-	1	3	75	126
Missouri-----	-	5	-	-	3	12	-	-	7	15	206	98
North Dakota-----	-	-	-	-	1	1	-	-	6	1	173	87
South Dakota-----	-	1	-	-	3	3	-	-	-	4	7	7
Nebraska-----	-	4	-	-	7	7	-	1	-	1	44	42
Kansas-----	-	1	-	-	-	-	-	1	-	-	100	176
SOUTH ATLANTIC-----	1	-	10	2	75	74	2	2	15	20	905	447
Delaware-----	-	-	-	-	-	-	-	-	-	1	48	28
Maryland-----	-	-	1	-	1	3	-	2	5	2	232	45
District of Columbia-----	-	-	-	-	-	-	-	-	-	1	10	5
Virginia-----	-	-	-	-	4	12	-	-	2	4	176	109
West Virginia-----	-	-	-	1	1	3	-	-	1	1	195	79
North Carolina-----	-	-	-	-	6	12	-	-	-	1	48	21
South Carolina-----	-	-	-	1	4	8	1	-	-	-	14	32
Georgia-----	1	-	1	-	29	20	-	-	-	4	84	48
Florida-----	-	-	8	-	30	16	1	-	7	6	98	80
EAST SOUTH CENTRAL-----	1	-	1	-	43	19	2	1	32	35	932	597
Kentucky-----	-	-	1	-	4	1	1	-	9	10	440	296
Tennessee-----	1	-	-	-	4	3	-	-	6	11	216	164
Alabama-----	-	-	-	-	9	11	1	-	13	12	191	110
Mississippi-----	-	-	-	-	26	4	-	1	4	2	85	27
WEST SOUTH CENTRAL-----	-	1	2	5	118	62	3	1	34	17	731	491
Arkansas-----	-	1	-	-	31	11	-	-	2	5	35	50
Louisiana-----	-	-	-	-	38	5	-	-	7	-	70	4
Oklahoma-----	-	-	-	1	1	16	1	-	7	1	109	82
Texas-----	-	-	2	4	48	30	2	1	18	11	517	355
MOUNTAIN-----	-	-	-	-	9	23	1	-	40	42	1,470	900
Montana-----	-	-	-	-	-	7	-	-	5	24	143	173
Idaho-----	-	-	-	-	-	1	-	-	2	-	160	77
Wyoming-----	-	-	-	-	-	2	-	-	-	-	42	3
Colorado-----	-	-	-	-	3	5	-	-	21	6	455	102
New Mexico-----	-	-	-	-	4	7	-	-	3	1	317	175
Arizona-----	-	-	-	-	1	1	-	-	8	4	258	188
Utah-----	-	-	-	-	-	-	-	-	1	5	81	92
Nevada-----	-	-	-	-	1	-	1	-	-	-	14	90
PACIFIC-----	-	-	-	2	3	5	12	11	59	77	1,635	1,188
Alaska-----	-	-	-	-	1	-	-	-	2	(2)	12	(58)
Washington-----	-	-	-	-	-	-	3	-	4	13	254	226
Oregon-----	-	-	-	-	1	1	-	-	8	11	328	150
California-----	-	-	-	2	1	4	9	11	45	55	1,041	812
Hawaii-----	-	-	-	-	1	-	1	-	-	1	23	23
Puerto Rico-----	-	-	-	-	11	23	-	-	3	-	87	64

¹Data exclude report from Pennsylvania for the current week.

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MAY 17, 1958, AND MAY 16, 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 ²				Paralytic 080.0,080.1				Nonparalytic		085	
	19th week		Cumulative first 19 weeks		19th week		Cumulative first 19 weeks		080.2		085	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES ¹ -----	38	25	446	309	18	13	301	160	15	5	14,819	38,209
NEW ENGLAND-----	-	-	6	6	-	-	5	4	-	-	851	3,234
Maine-----	-	-	-	2	-	-	-	2	-	-	57	149
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	37
Vermont-----	-	-	1	-	-	-	1	-	-	-	13	91
Massachusetts-----	-	-	4	1	-	-	3	-	-	-	166	1,482
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	26	478
Connecticut-----	-	-	1	3	-	-	1	2	-	-	589	997
MIDDLE ATLANTIC ² -----	4	2	35	13	2	1	14	5	1	-	2,816	6,619
New York-----	-	1	26	11	1	1	11	5	-	-	1,446	2,904
New Jersey-----	4	1	6	2	2	-	2	-	1	-	1,370	1,559
Pennsylvania-----	-	-	13	-	-	-	1	-	-	-	-	2,156
EAST NORTH CENTRAL-----	5	2	35	28	1	-	19	11	2	1	2,251	10,138
Ohio-----	1	-	15	4	-	-	6	-	-	-	791	1,510
Indiana-----	2	-	3	2	-	-	1	1	1	-	212	1,550
Illinois-----	-	1	3	5	-	-	1	2	-	1	293	1,250
Michigan-----	1	1	11	13	-	-	8	6	1	-	365	2,136
Wisconsin-----	1	-	3	4	1	-	3	2	-	-	590	3,692
WEST NORTH CENTRAL-----	5	-	45	13	3	-	25	7	-	-	1,146	1,129
Minnesota-----	-	-	-	1	-	-	-	1	-	-	96	101
Iowa-----	1	-	1	3	1	-	1	1	-	-	593	601
Missouri-----	-	-	30	1	-	-	21	1	-	-	105	134
North Dakota-----	-	-	1	2	-	-	-	1	-	-	304	215
South Dakota-----	-	-	2	3	-	-	-	1	-	-	38	-
Nebraska-----	2	-	5	2	2	-	3	2	-	-	10	78
Kansas-----	2	-	6	1	-	-	-	-	-	-	(*)	(*)
SOUTH ATLANTIC-----	5	6	97	62	2	3	70	31	3	-	888	4,483
Delaware-----	-	-	2	1	-	-	2	1	-	-	23	25
Maryland-----	-	-	-	-	-	-	-	-	-	-	159	158
District of Columbia-----	1	1	1	1	-	1	-	1	1	-	8	22
Virginia-----	-	-	4	3	-	-	4	3	-	-	378	1,567
West Virginia-----	-	1	14	6	-	1	10	5	-	-	36	532
North Carolina-----	-	-	7	10	-	-	5	3	-	-	100	85
South Carolina-----	-	-	7	3	-	-	5	2	-	-	51	995
Georgia-----	-	-	3	6	-	-	3	4	-	-	5	458
Florida-----	4	4	59	32	2	1	41	12	2	-	128	641
EAST SOUTH CENTRAL-----	3	2	37	32	-	2	22	15	3	-	914	2,581
Kentucky-----	1	1	8	14	-	1	6	8	1	-	186	823
Tennessee-----	1	-	12	5	-	-	7	2	1	-	431	1,129
Alabama-----	-	-	1	5	-	-	-	4	-	-	267	507
Mississippi-----	1	1	16	8	-	1	9	1	1	-	30	122
WEST SOUTH CENTRAL-----	11	5	97	59	6	4	75	42	5	1	1,369	4,567
Arkansas-----	2	-	18	4	2	-	18	4	-	-	-	46
Louisiana-----	-	-	14	6	-	-	12	5	-	-	1	2
Oklahoma-----	-	-	5	4	-	-	2	2	-	-	29	488
Texas-----	9	5	62	45	4	4	43	31	5	1	1,339	4,031
MOUNTAIN-----	-	6	15	32	-	2	8	12	-	2	1,677	2,630
Montana-----	-	1	-	3	-	-	-	-	-	1	115	218
Idaho-----	-	-	-	-	-	-	-	-	-	-	62	150
Wyoming-----	-	-	1	2	-	-	-	1	-	-	2	62
Colorado-----	-	-	2	5	-	-	2	4	-	-	374	653
New Mexico-----	-	-	5	10	-	-	1	3	-	-	273	276
Arizona-----	-	3	5	8	-	1	5	3	-	1	434	977
Utah-----	-	1	2	2	-	1	-	1	-	-	251	252
Nevada-----	-	1	-	2	-	-	-	-	-	-	166	42
PACIFIC-----	5	2	79	64	4	1	63	33	1	1	2,907	2,828
Alaska-----	-	-	-	(1)	-	-	-	(1)	-	-	98	(39)
Washington-----	-	-	5	6	-	-	-	-	-	-	855	603
Oregon-----	2	-	7	5	1	-	6	3	1	-	230	297
California-----	3	2	67	53	3	1	57	30	-	1	1,724	1,928
Hawaii-----	-	3	4	7	-	3	4	7	-	-	51	18
Puerto Rico-----	-	6	3	33	-	6	3	30	-	-	31	78

¹Data exclude report from Pennsylvania for the current week.²Includes cases not specified by type, category number 080.3.

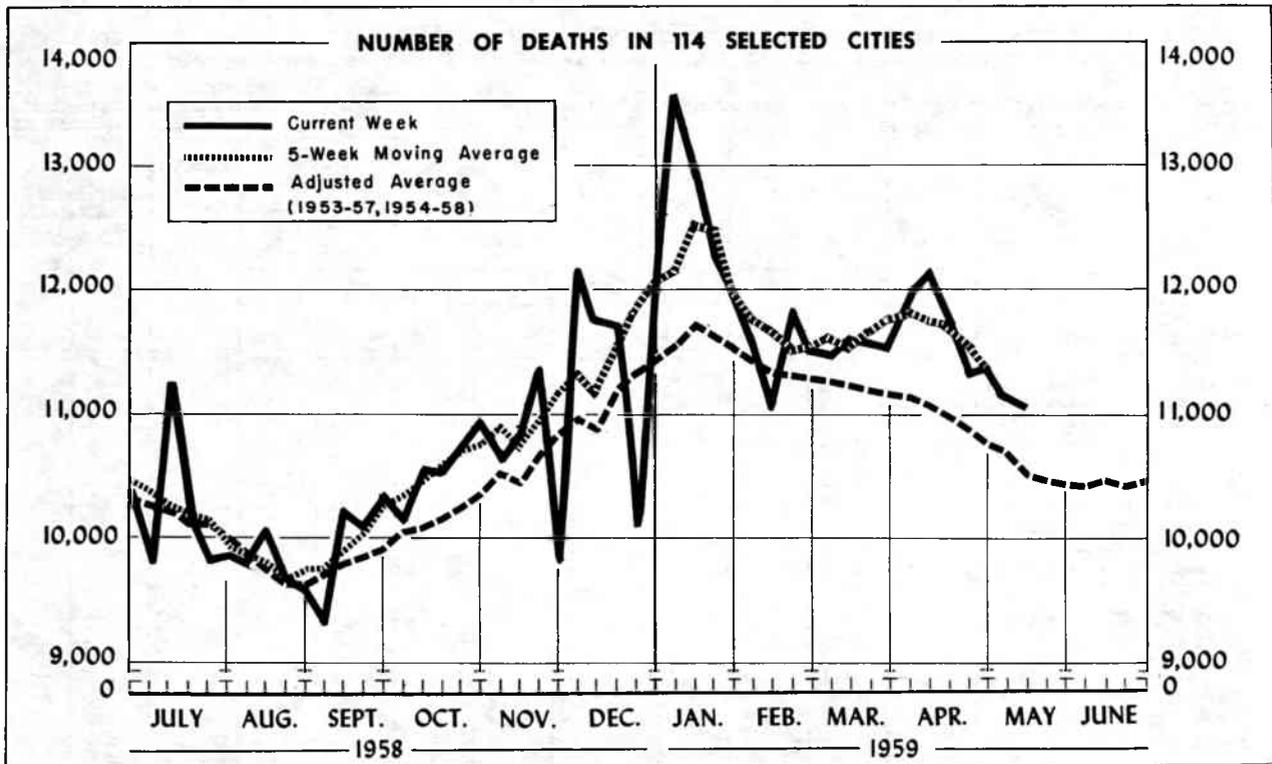
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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED MAY 17, 1958, AND MAY 16, 1959—Continued

(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	19th week		Cumulative first 19 weeks		101		
	1959	1958	1959	1958	1959	1959	1959	1958	1959	1958	1959	*1959	1958
CONT. UNITED STATES ¹ -----	-	46	38	57	2	16	19	198	274	-	68	86	
NEW ENGLAND -----	-	5	3	10	-	1	1	3	4	-	-	-	
Maine-----	-	1	1	-	-	-	-	-	1	-	-	-	
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-	
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-	
Massachusetts-----	-	3	1	8	-	1	-	1	2	-	-	-	
Rhode Island-----	-	-	1	2	-	-	-	1	-	-	-	-	
Connecticut-----	-	1	-	-	-	1	-	1	1	-	-	-	
MIDDLE ATLANTIC ¹ -----	-	7	7	5	-	-	12	20	41	-	2	2	
New York-----	-	4	4	-	-	-	-	8	8	-	2	-	
New Jersey-----	-	3	1	-	-	-	-	5	8	-	-	-	
Pennsylvania-----	-	-	2	-	-	-	12	7	25	-	-	2	
EAST NORTH CENTRAL -----	-	11	9	6	-	3	-	24	22	-	7	19	
Ohio-----	-	2	5	-	-	1	-	12	7	-	-	8	
Indiana-----	-	3	1	1	-	1	-	4	6	-	2	5	
Illinois-----	-	2	1	3	-	1	-	4	1	-	-	2	
Michigan-----	-	3	2	2	-	-	-	3	4	-	2	-	
Wisconsin-----	-	1	-	-	-	-	-	1	4	-	3	4	
WEST NORTH CENTRAL -----	-	3	1	3	-	1	-	8	26	-	15	21	
Minnesota-----	-	1	1	3	-	-	-	2	2	-	7	14	
Iowa-----	-	-	-	-	-	-	-	-	4	-	5	5	
Missouri-----	-	-	-	-	-	-	-	4	13	-	2	1	
North Dakota-----	-	2	-	-	-	-	-	1	1	-	1	-	
South Dakota-----	-	-	-	-	-	1	-	1	1	-	-	-	
Nebraska-----	-	-	-	-	-	-	-	-	1	-	-	1	
Kansas-----	-	-	-	-	-	-	-	2	5	-	-	-	
SOUTH ATLANTIC -----	-	9	9	10	-	1	-	45	45	-	18	16	
Delaware-----	-	-	-	-	-	-	-	-	-	-	-	-	
Maryland-----	-	1	-	3	-	-	-	-	2	-	-	-	
District of Columbia-----	-	-	-	1	-	-	-	1	2	-	-	-	
Virginia-----	-	1	5	3	-	1	-	11	4	-	5	6	
West Virginia-----	-	-	-	-	-	-	-	2	7	-	4	3	
North Carolina-----	-	4	1	-	-	-	-	5	10	-	5	-	
South Carolina-----	-	2	-	2	-	-	-	4	3	-	-	2	
Georgia-----	-	1	-	-	-	-	-	6	7	-	2	4	
Florida-----	-	-	3	³ 1	-	-	-	16	10	-	2	1	
EAST SOUTH CENTRAL -----	-	4	1	6	-	1	1	18	30	-	10	19	
Kentucky-----	-	-	-	2	-	-	-	4	7	-	5	7	
Tennessee-----	-	-	1	2	-	1	1	7	8	-	3	4	
Alabama-----	-	4	-	-	-	-	-	2	8	-	2	7	
Mississippi-----	-	-	2	-	-	-	-	5	7	-	-	1	
WEST SOUTH CENTRAL -----	-	3	1	5	-	4	4	38	66	-	10	2	
Arkansas-----	-	-	-	-	-	1	-	7	2	-	-	1	
Louisiana-----	-	1	-	-	-	-	2	7	35	-	4	-	
Oklahoma-----	-	-	-	2	-	-	-	6	4	-	-	-	
Texas-----	-	2	1	3	-	3	2	18	25	-	6	1	
MOUNTAIN -----	-	2	1	-	-	3	-	13	14	-	2	1	
Montana-----	-	-	-	-	-	-	-	1	2	-	-	-	
Idaho-----	-	-	-	-	-	-	-	2	4	-	-	-	
Wyoming-----	-	-	-	-	-	-	-	1	-	-	-	-	
Colorado-----	-	-	-	-	-	-	-	-	-	-	-	-	
New Mexico-----	-	-	1	-	-	3	-	5	7	-	2	-	
Arizona-----	-	1	-	-	-	-	-	4	1	-	-	1	
Utah-----	-	1	-	-	-	-	-	-	-	-	-	-	
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-	
PACIFIC -----	-	2	6	12	2	2	1	29	26	-	4	6	
Alaska-----	-	-	-	-	-	-	-	1	-	-	-	-	
Washington-----	-	-	1	1	-	-	-	1	-	-	-	-	
Oregon-----	-	1	-	1	-	-	1	1	6	-	-	-	
California-----	-	1	5	³ 10	2	2	-	26	20	-	4	6	
Hawaii-----	-	1	-	-	-	-	-	-	-	-	-	-	
Puerto Rico-----	-	-	-	-	-	-	-	2	10	-	-	1	

¹Data exclude report from Pennsylvania for the current week.
²Aseptic 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	19th week ended May 16, 1959	18th week ended May 9, 1959	Adjusted average, 19th week 1954-58	Percent change, adjusted average to current week ¹	CUMULATIVE NUMBER FIRST 19 WEEKS		
					1959	1958	Percent change
TOTAL, REPORTING CITIES-----	² 11,090	11,161	10,528	+5.3	² 224,008	228,640	-2.0
New England----- (14 cities)	713	727	688	+3.6	14,274	14,426	-1.1
Middle Atlantic----- (20 cities)	3,295	3,150	3,101	+6.3	65,701	66,547	-1.3
East North Central----- (19 cities)	² 2,414	2,350	2,284	+5.7	² 47,635	48,684	-2.2
West North Central----- (9 cities)	747	869	737	+1.4	15,605	16,165	-3.5
South Atlantic----- (11 cities)	971	953	873	+11.2	19,030	20,241	-6.0
East South Central----- (8 cities)	474	497	471	+0.6	10,062	10,961	-8.2
West South Central----- (13 cities)	844	1,000	813	+3.8	18,486	19,069	-3.1
Mountain----- (8 cities)	323	326	249	+29.7	6,301	5,857	+7.6
Pacific----- (12 cities)	1,309	1,289	1,287	+1.7	26,914	26,690	+0.8

¹Adjusted average used as base.

²Includes estimate for missing city.

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Table 4. DEATHS IN SELECTED CITIES

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

AREA	19th week ended	18th week ended	CUMULATIVE NUMBER FIRST 19 WEEKS		AREA	19th week ended	18th week ended	CUMULATIVE NUMBER FIRST 19 WEEKS	
	May 16, 1959	May 9, 1959	1959	1958		May 16, 1959	May 9, 1959	1959	1958
NEW ENGLAND:					WEST NORTH CENTRAL—Con.:				
Boston, Mass.-----	218	271	4,868	4,935	St. Louis, Mo.-----	216	259	4,837	5,138
Bridgeport, Conn.-----	40	27	792	822	St. Paul, Minn.-----	69	74	1,303	1,536
Cambridge, Mass.-----	24	30	559	592	Wichita, Kans.-----	32	57	919	870
Fall River, Mass.-----	37	28	581	569	SOUTH ATLANTIC:				
Hartford, Conn.-----	60	53	989	1,038	Atlanta, Ga.-----	128	110	2,225	2,264
Lowell, Mass.-----	21	13	448	544	Baltimore, Md.-----	236	244	4,786	5,156
Lynn, Mass.-----	19	13	461	418	Charlotte, N. C.-----	34	36	716	726
New Bedford, Mass.-----	16	26	465	490	Jacksonville, Fla.-----	45	63	1,138	1,283
New Haven, Conn.-----	49	45	904	973	Miami, Fla.-----	69	77	1,416	1,545
Providence, R. I.-----	52	85	1,359	1,310	Norfolk, Va.-----	48	34	813	744
Somerville, Mass.-----	15	14	277	279	Richmond, Va.-----	76	73	1,503	1,548
Springfield, Mass.-----	52	42	910	829	Savannah, Ga.-----	29	39	640	688
Waterbury, Conn.-----	34	21	551	557	St. Petersburg, Fla.-----	(59)	(60)	(1,365)	(1,473)
Worcester, Mass.-----	76	59	1,110	1,070	Tampa, Fla.-----	61	61	1,256	1,482
MIDDLE ATLANTIC:					Washington, D. C.-----	208	190	3,781	4,053
Albany, N. Y.-----	68	54	1,149	1,040	Wilmington, Del.-----	37	26	756	752
Allentown, Pa.-----	30	21	723	673	EAST SOUTH CENTRAL:				
Buffalo, N. Y.-----	144	146	2,856	3,119	Birmingham, Ala.-----	69	82	1,608	1,864
Camden, N. J.-----	56	34	814	895	Chattanooga, Tenn.-----	45	37	927	1,005
Elizabeth, N. J.-----	29	34	567	599	Knoxville, Tenn.-----	26	21	541	572
Erie, Pa.-----	42	42	735	685	Louisville, Ky.-----	99	107	2,195	2,325
Jersey City, N. J.-----	56	72	1,533	1,464	Memphis, Tenn.-----	111	125	2,229	2,374
Newark, N. J.-----	85	93	2,064	1,946	Mobile, Ala.-----	48	36	782	841
New York City, N. Y.-----	1,677	1,588	33,663	33,612	Montgomery, Ala.-----	18	40	627	740
Paterson, N. J.-----	40	36	780	870	Nashville, Tenn.-----	58	49	1,153	1,240
Philadelphia, Pa.-----	504	532	10,130	10,526	WEST SOUTH CENTRAL:				
Pittsburgh, Pa.-----	204	137	3,724	4,037	Austin, Tex.-----	22	34	590	672
Reading, Pa.-----	20	19	439	438	Baton Rouge, La.-----	29	23	565	576
Rochester, N. Y.-----	93	96	1,920	2,070	Corpus Christi, Tex.-----	22	28	391	423
Schenectady, N. Y.-----	27	26	472	464	Dallas, Tex.-----	108	115	2,275	2,314
Scranton, Pa.-----	40	48	806	720	El Paso, Tex.-----	23	42	705	742
Syracuse, N. Y.-----	63	65	1,242	1,218	Houston, Tex.-----	60	63	1,234	1,239
Trenton, N. J.-----	43	53	875	1,015	Fort Worth, Tex.-----	165	136	3,064	3,167
Utica, N. Y.-----	32	24	570	544	Little Rock, Ark.-----	51	49	1,110	1,067
Yonkers, N. Y.-----	42	30	639	612	New Orleans, La.-----	127	175	3,291	3,589
EAST NORTH CENTRAL:					Oklahoma City, Okla.-----	58	74	1,317	1,372
Akron, Ohio-----	71	54	1,178	1,163	San Antonio, Tex.-----	84	123	1,929	1,935
Canton, Ohio-----	39	33	662	594	Shreveport, La.-----	47	67	993	971
Chicago, Ill.-----	767	786	15,175	15,600	Tulsa, Okla.-----	48	71	1,022	1,002
Cincinnati, Ohio-----	169	150	3,181	3,352	MOUNTAIN:				
Cleveland, Ohio-----	223	198	4,082	4,313	Albuquerque, N. Mex.-----	34	31	616	547
Columbus, Ohio-----	96	111	2,232	2,339	Colorado Springs, Colo.-----	11	11	316	283
Dayton, Ohio-----	73	84	1,338	1,484	Denver, Colo.-----	114	117	2,277	2,266
Detroit, Mich.-----	358	315	6,544	6,440	Ogden, Utah-----	20	20	319	276
Evansville, Ind.-----	34	31	751	795	Phoenix, Ariz.-----	39	58	1,057	920
Flint, Mich.-----	37	34	795	754	Pueblo, Colo.-----	12	13	254	252
Fort Wayne, Ind.-----	30	33	718	736	Salt Lake City, Utah-----	60	50	968	915
Gary, Ind.-----	29	23	604	658	Tucson, Ariz.-----	33	26	494	398
Grand Rapids, Mich.-----	52	40	849	858	PACIFIC:				
Indianapolis, Ind.-----	131	142	2,846	2,535	Berkeley, Calif.-----	12	15	350	405
Madison, Wis.-----	(35)	(23)	(555)	(633)	Fresno, Calif.-----	(42)	(37)	(799)	(693)
Milwaukee, Wis.-----	120	126	2,589	2,749	Glendale, Calif.-----	(27)	(42)	(738)	(656)
Peoria, Ill.-----	22	36	603	685	Long Beach, Calif.-----	55	53	1,101	1,062
Rockford, Ill.-----	(36)	(35)	(561)	(512)	Los Angeles, Calif.-----	462	465	9,639	9,907
South Bend, Ind.-----	27	24	519	549	Oakland, Calif.-----	88	92	1,852	1,866
Toledo, Ohio-----	185	83	2,198	2,016	Passadena, Calif.-----	29	28	613	690
Youngstown, Ohio-----	51	47	1,061	1,064	Portland, Oreg.-----	93	129	2,256	1,956
WEST NORTH CENTRAL:					Sacramento, Calif.-----	50	53	1,044	1,001
Des Moines, Iowa-----	52	56	1,079	1,106	San Diego, Calif.-----	87	64	1,619	1,657
Duluth, Minn.-----	25	31	514	475	San Francisco, Calif.-----	212	184	3,902	3,900
Kansas City, Kans.-----	22	33	621	564	San Jose, Calif.-----	(34)	(30)	(513)	(446)
Kansas City, Mo.-----	129	126	2,396	2,535	Seattle, Wash.-----	120	132	2,698	2,610
Lincoln, Nebr.-----	(37)	(30)	(517)	(509)	Spokane, Wash.-----	54	41	994	898
Minneapolis, Minn.-----	120	141	2,487	2,533	Tacoma, Wash.-----	47	33	846	738
Omaha, Nebr.-----	82	92	1,449	1,408	Honolulu, Hawaii-----	(45)	(34)	(716)	(737)

¹ Estimated.

² Includes estimate for current week.

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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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