

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 September 21, 1957

EPIDEMIOLOGICAL REPORTS

Influenza

A further increase in incidence of influenza and influenza-like disease occurred during the past week. Epidemics, some of them explosive in nature, were reported in a number of schools and colleges located in various parts of the country. On the basis of reports from State health officers and the Armed Forces, the number of cases of influenza reported for the week ended September 21 was about 122,650. The cumulative total reported to date is an estimated 222,650. This figure is based on incomplete reports.

Reports from the New England States indicate that except for an epidemic at one military installation there was no unusual

amount of acute respiratory disease. Connecticut reported that 14 of 91 paired specimens of sera taken from patients with onsets prior to September 1 showed antibody rises. Three of the 14 were from physicians.

New York State reported several outbreaks in schools and in an institution. The latter was in metropolitan New York. The schools involved were mainly in the west central part of the State. An outbreak occurred among recruits at a Coast Guard station in New Jersey, where the total number of cases was about 100.

In the East North Central States, Indiana reported that school absenteeism rates due to respiratory disease averaged about 4 percent. The disease was occurring sporadically but with increased incidence in 5 counties. Illinois reported an

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

(Numbers after diseases are category numbers of the Sixth Revision of the International Lists, 1948)

DISEASE	38th WEEK			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended Sept. 21, 1957	Ended Sept. 22, 1956	Median 1952-56	First 38 weeks			Since seasonal low week			
				1957	1956	Median 1952-56	1956-57	1955-56	Median 1951-52 to 1955-56	
Anthrax-----062	1 ¹	-	-	16	32	23	(²)	(²)	(²)	(²)
Botulism-----049.1	-	-	-	11	5	8	(²)	(²)	(²)	(²)
Brucellosis (undulant fever)-----044	15	22	32	717	781	1,252	(²)	(²)	(²)	(²)
Diphtheria-----055	33	20	40	700	1,009	1,236	236	183	373	July 1
Encephalitis, infectious-----082	40	114	53	1,333	1,446	1,446	773	817	763	June 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	237	257	491	11,731	14,869	23,626	721	790	1,450	Sept. 1
Malaria-----110-117	3	13	16	115	182	514	(²)	(²)	(²)	(²)
Measles-----085	862	849	763	452,366	579,188	579,188	2,712	2,486	2,298	Sept. 1
Meningococcal infections-----057	42	37	48	1,796	2,066	3,248	111	101	139	Sept. 1
Meningitis, other-----340	41	29	---	1,741	1,134	---	---	---	---	---
Poliovmyelitis-----080	213	763	2,155	4,623	11,492	24,196	4,097	10,425	22,523	Apr. 1
Paralytic-----080.0,080.1	82	272	---	1,471	4,992	---	1,197	4,409	---	Apr. 1
Nonparalytic-----080.2	94	325	---	2,403	4,463	---	2,240	4,178	---	Apr. 1
Unspecified-----080.3	37	166	---	749	2,037	---	660	1,838	---	Apr. 1
Psittacosis-----096.2	7	4	4	201	396	202	(²)	(²)	(²)	(²)
Rabies in man-----094	-	1	-	4	7	7	(²)	(²)	(²)	(²)
Typhoid fever-----040	26	46	65	965	1,385	1,647	708	1,073	1,245	Apr. 1
Typhus fever, endemic-----101	4	2	4	95	81	129	70	62	99	Apr. 1
Rabies in animals-----	74	92	107	3,339	3,679	5,330	4,303	4,706	7,083	Oct. 1

¹Reported in Massachusetts

²Data show no pronounced seasonal change in incidence.

Symbols.—1 dash [-]: no cases reported; 3 dashes [---]: data not available.

EPIDEMIOLOGICAL REPORTS—Continued

epidemic of influenza-like disease in a seminary where 140 of the 310 students and faculty became ill. A few sporadic cases were also reported from other parts of the State. Dr. C. G. Loosli, University of Chicago, states that he isolated an Asian strain of virus from a student at the university. An outbreak in a school in Saginaw, Michigan, which was reported previously has been confirmed by isolation of an Asian strain of influenza virus at the University of Michigan. In another county of Michigan, 400 children were absent from school because of a respiratory disease. Detroit reports a spotty excess of absenteeism in elementary schools and the isolation of an Asian strain of virus from an adult male living in that city. Dr. W. S. Jordan, Western Reserve University, Cleveland, Ohio, reports the isolation of 6 strains, presumably Asian type, from hospital and civilian populations in Cleveland. An increasing number of cases of influenza-like illness are being seen in a hospital health service and in family studies.

In the West North Central States, 4 States reported the occurrence of influenza. In Missouri, influenza-like disease was reported among high school students in an urban community where about 20 percent of the students were ill. Sporadic cases were also reported in several counties and in a military installation. In South Dakota, there were 4 scattered cases that have been confirmed by laboratory tests as influenza, and in North Dakota, there have been sporadic cases in all sections. In Iowa, only a few cases have been reported.

In the South Atlantic States, a few outbreaks of acute respiratory disease were reported in the civilian population. One occurred in an institution with a population of 300 children in the District of Columbia. An influenza virus was isolated from 2 specimens of throat washings. Another institutional outbreak is under investigation. Four sporadic cases were reported in Maryland and 1 in Delaware, none of which has been confirmed. An outbreak in a college in South Carolina is under investigation. Georgia reported that 275 of 520 students in a public school were ill in 1 county, and that 14 of 370 children in an institution had influenza. One sporadic case confirmed by laboratory tests was reported in Florida. Reports from Kentucky state that there were 249 cases, and Tennessee reported 766 for the week ended September 21. Mississippi has reported a high incidence in most of the State except in a few counties in the northeastern part. Alabama reports increasing incidence in 12 counties.

A small outbreak of influenza has been reported among students of a college in Arkansas. It began a few days after the opening of school among students who had arrived from 9 different States. Sporadic outbreaks are occurring in 4 localities of Oklahoma. Laboratory confirmation has been made in 4 cases. There has been 1 death possibly attributable to influenza. In Texas 20 counties reported at least 100 cases. Several schools closed because 20 to 40 percent of the pupils were absent. Outbreaks were reported in 2 universities, 1,500 and 400 cases respectively. Twelve more positive laboratory tests have been obtained from previously reported cases.

In Colorado, several hundred students in a university have had influenza which has been confirmed by the isolation of 3 strains of type A virus. Scattered cases are also occurring. The occurrence of influenza in various public schools of Utah continues to be reported. Absenteeism rates have been high, varying from 20 to 50 percent. Idaho reports that sporadic cases are occurring in all parts of the State. Schools are closed in 1 county.

In Arizona a fatal case has been reported in a 19-year-old boy who was stationed on a military installation. The onset of illness was on September 17 with symptoms typical of influenza. He developed pneumonia and died on September 22 in spite of antibiotic therapy. A staphylococcus was recovered from the heart and blood at autopsy, but laboratory confirmation of the diagnosis of influenza was not reported. An outbreak of influenza-like disease has occurred at this military installation, and it appears to have reached its peak.

The report for Oregon states that to date an Asian strain of influenza virus has been isolated on 2 occasions and 16 cases have been confirmed by serologic tests. The latter cases were from scattered areas of the State. Currently 10 outbreaks are under investigation, 1 in a girls' camp, 1 in a jail, 1 in an Indian School, and the remainder in public schools. Three of the public schools are in 1 county. Two outbreaks were reported in Washington State, 1 in a public school and the other in a small community.

Dr. G. Arbona, Puerto Rico Department of Health, has estimated the probable number of cases of influenza in Puerto Rico to be 171,024. This figure was based on school and industrial absenteeism. Dr. Arbona stated that the epidemic was near its peak, on the basis of reports received from health centers. There had been 3 additional deaths associated with influenza, which brought the total to 7 for the epidemic. Dr. O'Neal, Virgin Islands Department of Health, reported 359 suspect cases of influenza.

Dr. J. B. Enright, Hawaii Department of Health, has submitted a report of the death of an 18-year-old boy. The boy was seen twice in an island dispensary on July 24. The first time he appeared he had a fever of 102.6° F. and signs and symptoms of influenza, but when he was returned 6 hours later he was moribund with a fever of 105.6° F., pulse 150, and respirations 34. He was admitted to the hospital and given supportive therapy and chloramphenicol. Cerebrospinal fluid was normal. He became comatose and died on July 25. Death was attributed to hyperpyrexia due to severe influenza.

The Pan American Sanitary Bureau forwarded information from Canada that influenza virus A/Asla/57 was isolated from 7 girls who attended a camp in Ontario, and that 150 persons were ill in a group of 1,500 campers from several countries. In Quebec outbreaks of influenza have occurred in 4 schools located in different parts of the province. Passengers arriving in Canadian east coast ports from Europe have been ill with an influenza-like disease.

Aseptic meningitis

Dr. R. M. Albrecht, New York State Department of Health, reports an outbreak of sore throat, low-grade fever lasting 2 days, splitting headache, nuchal rigidity, and occasional gastroenteric symptoms among several families in Lewis County. Examination of the cerebrospinal fluid in 2 cases revealed an increased protein and an increase in cells (30-60), most of which were polymorphonuclear. Recovery was uneventful.

Gastro-enteritis

Dr. F. R. Williams, Pinal County (Arizona) Health Department has reported an outbreak of gastro-enteritis in 125 of 250 residents in a copper mining camp. The etiological agent, *Staphylococcus aureus*, was traced to an infected blister on the hand of a cook who had prepared egg, ham, and beef sandwiches the day previous to ingestion, and these had not been refrigerated. The miners became ill with nausea, vomiting, abdominal cramps, diarrhea, malaise, and fever 2 to 6 hours after

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED SEPTEMBER 22, 1956 AND SEPTEMBER 21, 1957

(By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	BRUCELLOSIS (UNDULANT FEVER)		DIPHTEHERIA 055				ENCEPHALITIS, INFECTIONOUS		HEPATITIS, INFECTIONOUS, AND SERUM 092,N988.5 pt.			
	044		38th week		Cumulative first 38 weeks		082		38th week		Cumulative first 38 weeks	
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956
CONT. UNITED STATES-----	15	22	33	20	700	1,009	40	114	257	257	11,731	14,869
NEW ENGLAND-----	-	-	-	1	20	12	1	3	16	28	648	978
Maine-----	-	-	-	-	3	-	-	-	5	3	204	233
New Hampshire-----	-	-	-	-	-	1	-	-	-	1	8	29
Vermont-----	-	-	-	-	-	-	-	-	-	17	86	133
Massachusetts-----	-	-	-	1	17	11	-	2	6	5	192	249
Rhode Island-----	-	-	-	-	-	-	1	1	1	1	60	120
Connecticut-----	-	-	-	-	-	-	-	-	4	1	98	214
MIDDLE ATLANTIC-----	-	2	-	1	59	51	7	6	53	41	1,853	3,177
New York-----	-	-	-	-	30	18	7	5	33	22	1,129	1,656
New Jersey-----	-	-	-	-	9	14	-	1	4	4	233	293
Pennsylvania-----	-	2	-	1	20	19	-	-	16	15	491	1,228
EAST NORTH CENTRAL-----	2	5	-	1	40	175	5	20	36	30	2,001	2,215
Ohio-----	-	-	-	-	11	14	2	6	14	9	511	559
Indiana-----	-	-	-	1	9	85	-	12	3	3	284	314
Illinois-----	-	4	-	-	3	8	2	1	5	4	443	502
Michigan-----	-	-	-	-	15	66	1	-	4	10	544	588
Wisconsin-----	2	1	-	-	2	2	-	1	10	4	219	252
WEST NORTH CENTRAL-----	8	6	1	-	55	94	5	21	10	17	691	1,260
Minnesota-----	-	-	1	-	22	25	-	-	7	7	243	403
Iowa-----	6	1	-	-	7	17	1	-	-	4	164	326
Missouri-----	-	1	-	-	1	11	-	1	1	2	115	75
North Dakota-----	-	-	-	-	3	5	2	-	-	-	90	100
South Dakota-----	-	1	-	-	6	7	-	-	-	2	34	157
Nebraska-----	-	1	-	-	10	26	-	3	2	-	22	90
Kansas-----	2	2	-	-	6	3	2	17	-	2	23	109
SOUTH ATLANTIC-----	-	5	13	11	230	234	1	1	14	30	897	963
Delaware-----	-	-	-	-	-	-	-	-	1	-	8	30
Maryland-----	-	-	-	-	2	1	-	-	1	3	85	78
District of Columbia-----	-	-	-	-	-	1	-	1	-	-	10	18
Virginia-----	-	2	1	1	12	24	-	-	3	13	349	376
West Virginia-----	-	-	-	1	5	6	-	-	2	2	77	54
North Carolina-----	-	-	-	1	27	32	1	-	3	6	84	106
South Carolina-----	-	-	6	1	66	50	-	-	-	1	26	55
Georgia-----	-	3	4	4	52	60	-	-	1	2	98	123
Florida-----	-	-	2	3	66	60	-	-	3	3	160	123
EAST SOUTH CENTRAL-----	3	1	9	1	100	130	4	-	17	28	1,536	1,303
Kentucky-----	-	-	-	-	14	10	4	-	9	11	654	404
Tennessee-----	2	-	-	-	10	20	-	-	4	9	574	549
Alabama-----	1	1	5	-	42	61	-	-	4	2	200	161
Mississippi-----	-	-	4	1	34	39	-	-	-	6	108	189
WEST SOUTH CENTRAL-----	2	2	9	3	137	239	8	48	30	10	919	1,082
Arkansas-----	-	1	4	-	16	19	-	-	1	-	67	97
Louisiana-----	1	-	1	-	13	26	-	-	1	1	49	112
Oklahoma-----	-	-	-	-	18	57	1	1	6	3	109	86
Texas-----	1	1	4	3	90	137	7	47	22	6	694	787
MOUNTAIN-----	-	-	-	-	26	24	-	1	13	19	1,006	1,311
Montana-----	-	-	-	-	9	3	-	-	2	4	144	326
Idaho-----	-	-	-	-	1	1	-	-	-	2	81	170
Wyoming-----	-	-	-	-	1	4	-	-	-	2	45	74
Colorado-----	-	-	-	-	2	3	-	-	-	9	159	303
New Mexico-----	-	-	-	-	9	5	-	1	4	-	327	109
Arizona-----	-	-	-	-	3	5	-	-	2	2	180	259
Utah-----	-	-	-	-	1	3	-	-	4	-	42	65
Nevada-----	-	-	-	-	-	-	-	-	-	-	28	5
PACIFIC-----	-	1	1	2	33	50	9	14	48	54	2,180	2,580
Washington-----	-	-	1	1	23	10	-	-	6	10	294	537
Oregon-----	-	-	-	-	2	11	-	-	9	17	407	511
California-----	-	1	-	1	8	29	9	14	33	27	1,479	1,532
Alaska-----	-	-	-	-	-	35	-	-	4	3	71	71
Hawaii-----	-	-	-	-	-	-	1	-	7	1	42	44
Puerto Rico-----	-	-	-	1	38	51	-	-	2	6	124	198

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED SEPTEMBER 22, 1956 AND SEPTEMBER 21, 1957—Continued

(By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	POLIOMYELITIS 080								MALARIA		MEASLES	
	Total ¹				Paralytic		Nonparalytic		110-117		085	
	38th week		Cumulative first 38 weeks		080.0,080.1		080.2		110-117		085	
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956
CONT. UNITED STATES-----	213	763	4,623	11,492	82	272	94	325	3	13	862	849
NEW ENGLAND-----	2	18	66	213	2	4	-	12	-	-	38	12
Maine-----	-	-	6	19	-	-	-	-	-	-	7	1
New Hampshire-----	-	-	4	3	-	-	-	-	-	-	-	-
Vermont-----	-	2	4	19	-	-	-	2	-	-	1	1
Massachusetts-----	1	6	20	93	1	2	-	2	-	-	19	7
Rhode Island-----	-	-	-	9	-	-	-	-	-	-	-	1
Connecticut-----	1	10	32	70	1	2	-	8	-	-	11	2
MIDDLE ATLANTIC-----	11	86	252	824	3	11	5	39	-	-	121	93
New York-----	5	46	153	532	3	9	1	25	-	-	82	63
New Jersey-----	6	21	63	168	-	2	4	14	-	-	17	15
Pennsylvania-----	-	19	36	124	-	-	-	-	-	-	22	15
EAST NORTH CENTRAL-----	80	216	1,184	3,180	17	78	41	82	-	2	179	106
Ohio-----	9	43	200	438	-	11	-	10	-	-	30	6
Indiana-----	5	35	127	282	-	13	4	9	-	-	9	9
Illinois-----	18	63	267	1,612	6	28	6	25	-	2	-	23
Michigan-----	42	37	392	476	8	10	29	25	-	-	30	34
Wisconsin-----	6	38	198	372	3	16	2	13	-	-	110	34
WEST NORTH CENTRAL-----	16	128	384	1,318	8	21	5	72	1	1	34	24
Minnesota-----	2	20	39	163	2	3	-	17	-	-	1	2
Iowa-----	9	46	71	513	3	3	5	36	-	1	8	10
Missouri-----	2	26	103	325	2	6	-	6	1	-	15	4
North Dakota-----	1	10	9	24	-	1	-	9	-	-	7	6
South Dakota-----	-	1	37	28	-	-	-	-	-	-	1	-
Nebraska-----	1	12	68	112	1	2	-	2	-	-	2	2
Kansas-----	1	13	57	153	-	6	-	2	-	-	-	-
SOUTH ATLANTIC-----	28	79	625	1,084	14	44	12	32	-	3	86	77
Delaware-----	-	3	4	20	-	1	-	2	-	-	2	-
Maryland-----	1	14	11	56	1	8	-	6	-	-	7	9
District of Columbia-----	6	1	47	8	5	1	-	-	-	-	-	-
Virginia-----	5	9	74	167	2	7	3	2	-	1	19	16
West Virginia-----	1	10	25	86	-	8	-	2	-	-	14	8
North Carolina-----	4	15	182	235	-	6	4	8	-	-	8	8
South Carolina-----	5	8	106	90	3	2	2	6	-	1	35	17
Georgia-----	2	5	65	157	1	5	1	-	-	-	1	1
Florida-----	4	14	111	265	2	6	2	6	-	1	-	18
EAST SOUTH CENTRAL-----	19	33	314	498	12	18	4	9	-	1	87	210
Kentucky-----	6	10	76	140	5	5	1	4	-	1	16	35
Tennessee-----	6	7	108	100	3	4	3	1	-	-	58	167
Alabama-----	7	1	40	55	4	-	-	-	-	-	12	6
Mississippi-----	-	15	90	203	-	9	-	4	-	-	1	2
WEST SOUTH CENTRAL-----	19	54	948	1,896	9	26	7	25	1	3	115	104
Arkansas-----	2	7	56	143	1	3	1	4	1	-	-	9
Louisiana-----	4	13	151	508	2	7	2	6	-	-	-	1
Oklahoma-----	5	7	105	175	1	2	1	2	-	3	23	1
Texas-----	8	27	636	1,070	5	14	3	13	-	-	92	93
MOUNTAIN-----	7	40	195	596	3	9	3	6	-	-	102	60
Montana-----	1	-	10	28	1	-	-	-	-	-	45	4
Idaho-----	-	2	19	91	-	-	-	-	-	-	13	4
Wyoming-----	1	1	12	24	-	1	1	-	-	-	3	6
Colorado-----	1	10	35	109	-	5	1	5	-	-	-	4
New Mexico-----	2	2	45	58	1	2	-	-	-	-	10	16
Arizona-----	2	2	41	104	1	1	1	1	-	-	23	11
Utah-----	-	22	29	153	-	-	-	-	-	-	8	13
Nevada-----	-	1	4	29	-	-	-	-	-	-	-	2
PACIFIC-----	31	109	655	1,883	14	61	17	48	1	3	100	163
Washington-----	-	5	10	131	-	3	-	2	-	-	24	38
Oregon-----	1	3	37	114	-	3	1	-	-	-	17	15
California-----	30	101	608	1,638	14	55	16	46	1	3	59	110
Alaska-----	-	-	3	10	-	-	-	-	-	-	2	9
Hawaii-----	1	-	5	60	1	-	-	-	-	-	-	57
Puerto Rico-----	2	3	28	43	2	3	-	-	-	-	47	27

¹Includes cases not specified by type, category number 080.3.

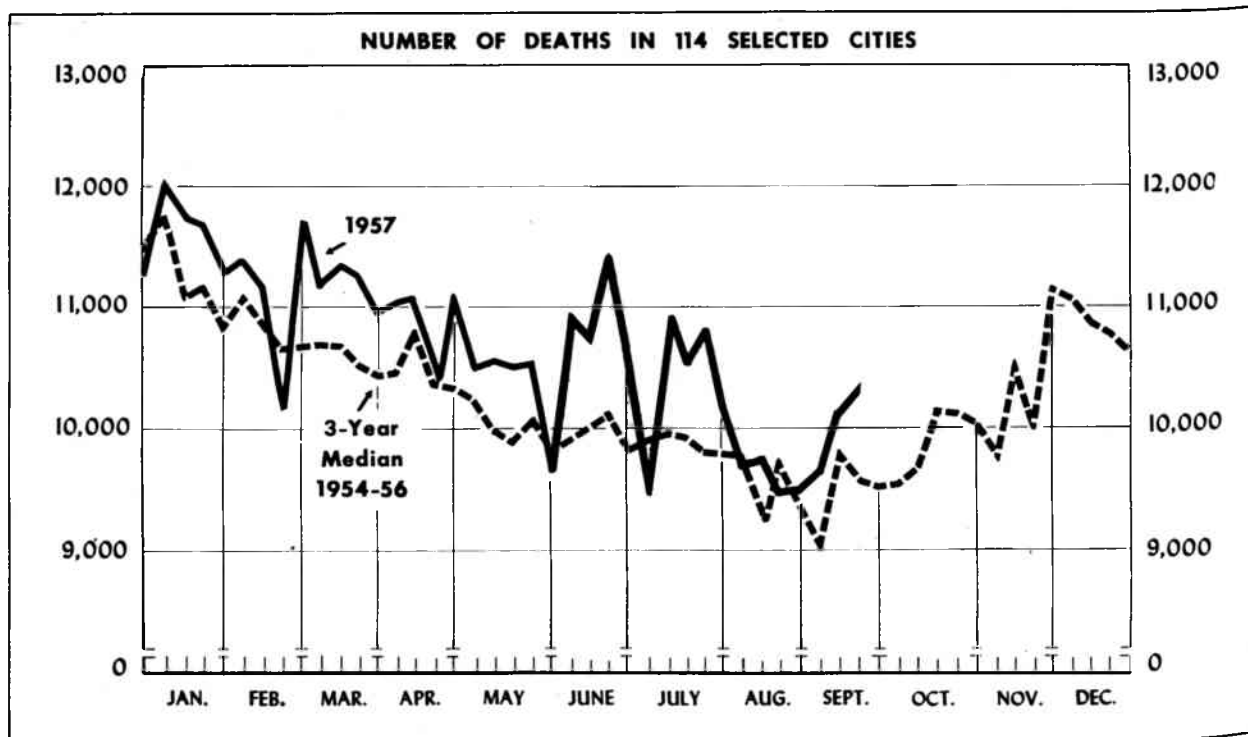
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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED SEPTEMBER 22, 1956 AND SEPTEMBER 21, 1957—Continued
 (By place of occurrence. Numbers under diseases are category numbers of the Sixth Revision of the International Lists, 1948)

AREA	MENINGOCOCCAL INFECTIONS		MENINGITIS, OTHER	PSITTACOSIS		TYPHOID FEVER 040				TYPHUS FEVER, ENDEMIC	RABIES IN ANIMALS	
	057			096.2		38th week		Cumulative first 38 weeks			101	1957
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1957		
CONT. UNITED STATES-----	42	37	41	7	4	26	46	965	1,385	4	74	92
NEW ENGLAND-----	2	1	2	1	-	-	2	19	44	-	-	-
Maine-----	-	-	1	-	-	-	-	2	12	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	2	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	1	-	-	-
Massachusetts-----	1	-	1	1	-	-	1	8	15	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	4	5	-	-	-
Connecticut-----	1	1	-	-	-	-	1	3	11	-	-	-
MIDDLE ATLANTIC-----	-	4	-	2	-	2	5	96	178	-	8	22
New York-----	-	2	-	1	-	-	1	39	52	-	8	21
New Jersey-----	-	1	-	-	-	-	-	19	24	-	-	-
Pennsylvania-----	-	1	-	1	-	2	4	38	102	-	-	1
EAST NORTH CENTRAL-----	12	9	10	3	-	5	5	131	190	-	17	16
Ohio-----	1	-	-	-	-	3	-	54	44	-	13	4
Indiana-----	1	-	-	-	-	-	3	38	25	-	1	8
Illinois-----	2	7	10	-	-	1	1	18	33	-	1	1
Michigan-----	3	1	-	-	-	1	1	11	46	-	-	1
Wisconsin-----	5	1	-	3	-	-	-	10	42	-	2	2
WEST NORTH CENTRAL-----	4	3	2	-	-	3	2	72	172	-	18	15
Minnesota-----	1	1	-	-	-	-	-	5	35	-	8	3
Iowa-----	-	-	2	-	-	-	-	18	56	-	4	1
Missouri-----	1	1	-	-	-	2	1	38	48	-	4	10
North Dakota-----	-	-	-	-	-	-	-	1	6	-	1	-
South Dakota-----	1	-	-	-	-	1	-	5	3	-	-	-
Nebraska-----	-	1	-	-	-	-	-	-	12	-	1	1
Kansas-----	1	-	-	-	-	1	-	5	12	-	-	-
SOUTH ATLANTIC-----	9	5	9	1	1	5	8	188	224	2	6	18
Delaware-----	-	-	-	-	-	-	-	1	3	-	-	-
Maryland-----	-	-	-	-	-	-	-	7	17	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	8	11	-	-	-
Virginia-----	1	1	8	1	-	-	2	36	43	-	3	2
West Virginia-----	-	-	1	-	-	1	1	44	21	-	-	3
North Carolina-----	4	1	-	-	-	-	2	11	25	-	-	2
South Carolina-----	1	1	-	-	-	3	-	17	24	-	-	7
Georgia-----	-	2	-	-	1	-	3	25	44	1	3	1
Florida-----	3	-	-	-	-	1	-	39	56	1	-	3
EAST SOUTH CENTRAL-----	5	6	4	-	-	2	4	147	174	-	9	11
Kentucky-----	-	-	2	-	-	-	1	46	36	-	5	4
Tennessee-----	-	2	2	-	-	1	1	59	66	-	-	1
Alabama-----	5	3	-	-	-	1	-	12	20	-	4	6
Mississippi-----	-	1	-	-	-	-	2	30	52	-	-	-
WEST SOUTH CENTRAL-----	5	5	6	-	2	6	11	210	261	1	8	8
Arkansas-----	-	-	-	-	-	2	2	36	59	-	-	2
Louisiana-----	1	3	-	-	-	1	1	48	36	1	2	6
Oklahoma-----	1	-	-	-	-	-	1	24	39	-	4	-
Texas-----	3	2	6	-	2	3	7	102	127	-	2	-
MOUNTAIN-----	2	1	5	-	1	1	3	40	53	-	-	-
Montana-----	1	-	1	-	-	-	-	2	3	-	-	-
Idaho-----	-	-	1	-	-	-	-	4	3	-	-	-
Wyoming-----	-	-	-	-	-	-	-	2	2	-	-	-
Colorado-----	1	-	-	-	1	-	-	11	10	-	-	-
New Mexico-----	-	-	3	-	-	-	-	13	15	-	-	-
Arizona-----	-	1	-	-	-	-	2	7	17	-	-	-
Utah-----	-	-	-	-	-	1	-	1	1	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	2	-	-	-
PACIFIC-----	3	3	3	-	-	2	6	62	89	1	8	2
Washington-----	-	-	-	-	-	-	-	3	2	-	-	-
Oregon-----	1	1	3	-	-	-	2	5	9	-	-	-
California-----	2	2	-	-	-	2	4	54	78	1	8	2
Alaska-----	-	-	-	-	-	-	-	1	1	-	-	-
Hawaii-----	-	-	-	-	-	-	-	4	-	-	-	-
Puerto Rico-----	-	-	-	-	-	-	12	15	52	-	-	-

Symbol.—1 dash [-]: no cases reported.

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The chart shows the number of deaths reported for 114 major cities of the United States by week for the current year, and, for comparison, the median of the number of deaths reported for the corresponding weeks of the 3 previous calendar years. (The median is the central one of the three values arranged in order of magnitude.) 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 to maintain comparability for graphic presentation.

The figures reported represent the number of death certificates received in the vital statistics offices during the week indicated for deaths occurring in that 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.

While week-to-week changes in the total number of deaths reported for all major cities generally represent a change in mortality conditions, this may not be true for variations in weekly figures for each city. For example, in a city with a weekly average of 50 deaths, the number of deaths occurring in a week may be expected to vary by chance alone from 36 to 64 ($d \pm 2\sqrt{d}$, where d represents the average number of deaths per week).

The number of deaths in cities of the same size may also differ because of variations in the age, race, and sex composition of their 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)

AREA	38th week ended Sept. 21, 1957	37th week ended Sept. 14, 1957	38th week median 1954-56	Percent change, median to current week	CUMULATIVE NUMBER FIRST 38 WEEKS		
					1957	1956	Percent change
TOTAL: 112 REPORTING CITIES-----	10,087	9,883	9,328	+8.1	396,379	386,661	+2.5
New England----- (14 cities)	662	689	597	+10.9	26,213	25,586	+2.5
Middle Atlantic----- (20 cities)	2,884	2,839	2,817	+2.4	117,954	116,213	+1.5
East North Central----- (19 cities)	2,268	2,212	2,081	+9.0	87,721	86,079	+1.9
West North Central----- (8 cities)	635	610	611	+3.9	24,559	23,935	+2.6
South Atlantic----- (11 cities)	876	850	828	+5.8	34,274	33,308	+2.9
East South Central----- (8 cities)	509	494	451	+12.9	18,270	17,928	+1.9
West South Central----- (12 cities)	658	692	598	+10.0	27,652	25,962	+6.5
Mountain----- (8 cities)	293	246	213	+37.6	10,191	9,308	+9.5
Pacific----- (12 cities)	1,302	1,251	1,226	+6.2	49,545	48,342	+2.5

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Table 4. DEATHS IN SELECTED CITIES

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

AREA	38th week ended Sept. 21, 1957	37th week ended Sept. 14, 1957	CUMULATIVE NUMBER FIRST 38 WEEKS		AREA	38th week ended Sept. 21, 1957	37th week ended Sept. 14, 1957	CUMULATIVE NUMBER FIRST 38 WEEKS	
			1957	1956				1957	1956
NEW ENGLAND					WEST NORTH CENTRAL—Con.				
Boston, Mass.-----	234	219	8,850	8,624	St. Louis, Mo.-----	248	229	9,006	8,877
Bridgeport, Conn.-----	29	49	1,420	1,415	St. Paul, Minn.-----	55	66	2,504	2,518
Cambridge, Mass.-----	25	33	1,139	1,126	Wichita, Kans.-----	65	22	1,666	1,539
Fall River, Mass.-----	38	27	1,025	1,036	SOUTH ATLANTIC				
Hartford, Conn.-----	40	49	1,838	1,798	Atlanta, Ga.-----	106	97	4,081	4,144
Lowell, Mass.-----	32	27	1,065	895	Baltimore, Md.-----	216	230	9,000	8,719
Lynn, Mass.-----	14	27	777	797	Charlotte, N. C.-----	23	46	1,243	1,175
New Bedford, Mass.-----	27	18	916	848	Jacksonville, Fla.-----	55	67	2,042	1,942
New Haven, Conn.-----	57	58	1,745	1,708	Miami, Fla.-----	59	43	1,888	1,900
Providence, R. I.-----	55	57	2,333	2,368	Norfolk, Va.-----	40	36	1,362	1,222
Somerville, Mass.-----	10	16	510	595	Richmond, Va.-----	86	47	2,829	2,625
Springfield, Mass.-----	24	29	1,586	1,562	Savannah, Ga.-----	21	33	1,112	1,084
Waterbury, Conn.-----	23	26	953	949	Tampa, Fla.-----	57	49	2,354	2,235
Worcester, Mass.-----	54	54	2,056	1,865	Washington, D. C.-----	171	176	6,987	6,941
MIDDLE ATLANTIC					Wilmington, Del.-----	42	26	1,376	1,321
Albany, N. Y.-----	45	42	1,855	1,849	EAST SOUTH CENTRAL				
Allentown, Pa.-----	25	42	1,416	1,391	Birmingham, Ala.-----	99	70	2,961	2,905
Buffalo, N. Y.-----	134	109	5,381	5,346	Chattanooga, Tenn.-----	53	42	1,747	1,603
Camden, N. J.-----	45	34	1,513	1,462	Knoxville, Tenn.-----	12	42	1,034	1,287
Elizabeth, N. J.-----	30	22	1,070	1,038	Louisville, Ky.-----	117	118	3,956	4,007
Erie, Pa.-----	33	33	1,347	1,264	Memphis, Tenn.-----	123	103	4,042	3,748
Jersey City, N. J.-----	66	44	2,554	2,659	Mobile, Ala.-----	30	31	1,347	1,266
Newark, N. J.-----	98	65	3,851	3,641	Montgomery, Ala.-----	21	43	948	1,091
New York City, N. Y.-----	1,474	1,474	59,513	58,581	Nashville, Tenn.-----	54	45	2,235	2,021
Peterason, N. J.-----	35	27	1,464	1,384	WEST SOUTH CENTRAL				
Philadelphia, Pa.-----	405	466	18,231	18,108	Austin, Tex.-----	27	19	1,123	1,062
Pittsburgh, Pa.-----	184	130	6,787	6,871	Baton Rouge, La.-----	21	23	931	833
Reading, Pa.-----	19	30	880	809	Corpus Christi, Tex.-----	21	28	800	745
Rochester, N. Y.-----	97	92	3,610	3,544	Dallas, Tex.-----	80	101	4,120	4,060
Schenectady, N. Y.-----	20	31	891	844	El Paso, Tex.-----	31	35	1,179	1,016
Scranton, Pa.-----	22	30	1,409	1,306	Fort Worth, Tex.-----	58	57	2,345	2,220
Syracuse, N. Y.-----	59	55	2,194	2,214	Houston, Tex.-----	152	126	5,670	5,109
Trenton, N. J.-----	46	52	1,677	1,663	Little Rock, Ark.-----	41	63	2,027	1,751
Utica, N. Y.-----	19	37	1,187	1,124	New Orleans, La.-----	---	(162)	---	(6,039)
Yonkers, N. Y.-----	28	24	1,124	1,115	Oklahoma City, Okla.-----	67	53	2,340	2,375
EAST NORTH CENTRAL					San Antonio, Tex.-----	88	80	3,606	3,515
Akron, Ohio-----	50	41	2,016	1,981	Shreveport, La.-----	41	55	1,756	1,729
Canton, Ohio-----	33	35	1,164	1,056	Tulsa, Okla.-----	31	52	1,755	1,747
Chicago, Ill.-----	746	728	28,271	27,632	MOUNTAIN				
Cincinnati, Ohio-----	133	169	5,706	5,726	Albuquerque, N. Mex.-----	31	33	976	862
Cleveland, Ohio-----	197	202	7,819	7,702	Colorado Springs, Colo.-----	11	11	514	493
Columbus, Ohio-----	93	100	4,228	4,045	Denver, Colo.-----	124	101	4,177	4,113
Dayton, Ohio-----	68	82	2,708	2,475	Ogden, Utah-----	15	11	466	465
Detroit, Mich.-----	328	314	12,174	12,084	Phoenix, Ariz.-----	45	29	1,137	985
Evansville, Ind.-----	43	40	1,187	1,253	Pueblo, Colo.-----	13	11	485	471
Flint, Mich.-----	29	34	1,394	1,464	Salt Lake City, Utah-----	41	43	1,663	1,700
Fort Wayne, Ind.-----	32	30	1,334	1,332	Tucson, Ariz.-----	13	7	773	219
Gary, Ind.-----	31	15	1,092	1,070	PACIFIC				
Grand Rapids, Mich.-----	38	19	1,532	1,572	Berkeley, Calif.-----	20	22	723	625
Indianapolis, Ind.-----	110	104	4,450	4,384	Long Beach, Calif.-----	46	58	2,039	1,967
Milwaukee, Wis.-----	145	115	4,893	4,691	Los Angeles, Calif.-----	470	481	17,910	17,662
Peoria, Ill.-----	21	24	1,102	1,096	Oakland, Calif.-----	113	86	3,577	3,420
South Bend, Ind.-----	35	24	982	917	Pasadena, Calif.-----	34	24	1,344	1,349
Toledo, Ohio-----	81	91	3,592	3,525	Portland, Oreg.-----	102	92	3,634	3,549
Youngstown, Ohio-----	55	45	2,077	2,074	Sacramento, Calif.-----	49	59	1,933	1,810
WEST NORTH CENTRAL					San Diego, Calif.-----	77	69	3,000	2,819
Des Moines, Iowa-----	47	58	2,051	1,904	San Francisco, Calif.-----	173	167	7,230	7,164
Duluth, Minn.-----	27	34	983	990	Seattle, Wash.-----	138	106	4,943	4,775
Kansas City, Kans.-----	25	19	1,110	1,184	Spokane, Wash.-----	46	47	1,733	1,760
Kansas City, Mo.-----	---	(87)	---	(4,133)	Tacoma, Wash.-----	34	40	1,479	1,442
Minneapolis, Minn.-----	108	116	4,676	4,480	Honolulu, Hawaii-----	(38)	(49)	(1,461)	(1,324)
Omaha, Nebr.-----	60	66	2,563	2,443					

Symbols.—parentheses (): data not included in table 3; 3 dashes --- : data not available.

Morbidity and Mortality Weekly Report

EPIDEMIOLOGICAL REPORTS—Continued

eating the contaminated sandwiches. *Staph. aureus* was recovered from vomitus of hospitalized patients.

The California State Department of Public Health has supplied information on several outbreaks of gastro-enteritis. One episode, diagnosed as probable ichthyotoxism, occurred in 10 individuals who ate smoked tuna or yellowtail. Symptoms developed $\frac{1}{2}$ to 1 $\frac{1}{2}$ hours after ingestion. One person partook of the fish on two separate occasions with the same toxic reaction resulting each time. Nine of 31 persons who ate in a restaurant developed gastro-enteric symptoms 2 to 5 hours after ingestion of the meal. The source of infection was attributed to stuffed green peppers. Four of 7 people eating a Chinese meal became ill within 2 $\frac{1}{2}$ to 10 $\frac{1}{2}$ hours later. The etiology was not determined. Two persons became ill 3 and 4 $\frac{1}{2}$ hours after eating chocolate eclairs in a hotel dining room. The probable agent was a staphylococcus. Sixteen of 50 workers in a Mexican migrant labor camp became ill 3 to 4 hours after eating beans, tongue, and chili sauce. No pathogens were isolated.

QUARANTINE MEASURES

Immunization Information for International Travel Public Health Service Publication No. 384

Africa.—Ghana (Supplement, p. 3) now requires cholera immunization of arrivals from infected areas. All other information remains the same.

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 Alaska, Hawaii, and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Cases of anthrax, botulism, and rabies in man are not shown in table 2, but a footnote to table 1 shows the States reporting on these diseases. In addition, 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 at the end of table 1.

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