

# 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 August 17, 1957

### EPIDEMIOLOGICAL REPORTS

#### Influenza

Dr. Morris Greenberg, New York City Department of Health, has supplied information on an outbreak of influenza among foreign exchange students who recently arrived in New York from Rotterdam. Forty-four from Turkey left Istanbul on July 31. Several were ill when they reached Belgrade and 15, when they arrived in Rotterdam, August 5. They were not permitted to board the ship and left by plane. Nine were ill on arrival in New York. An Asian strain of influenza A virus was isolated from throat washings from this group. Four continued to their destinations in Illinois, New Hampshire, New York, and California where they became ill. The remainder of the exchange students, 647, came by ship from Rotterdam to New

York. Those from Vienna had contact with the Turkish students and were the first to become ill on board the ship. It is estimated that before arrival in New York, there were about 50 that were sick in bed. They had fever ranging up to 104° F., red throat, headache, and general malaise. One crew member had been ill and 1 nonstudent passenger who was quartered with 3 students. One of the students, a 17-year-old boy, had onset of illness about August 8, before arrival in New York on August 12. The next day, complained of abdominal pain, and when seen by a physician, his temperature was 103° F.; he had severe abdominal pain and a rigid abdominal wall. When hospitalized an X-ray film of the chest indicated that he had pneumonia. The abdominal symptoms were considered to be referred

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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	33d week			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended Aug. 17, 1957 <sup>1</sup>	Ended Aug. 18, 1956	Median 1952-56	First 33 weeks			Since seasonal low week			
				1957 <sup>1</sup>	1956	Median 1952-56	1956-57 <sup>1</sup>	1955-56	Median 1951-52 to 1955-56	
Anthrax-----062	-	1	1	14	30	20	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Botulism-----049.1	32	-	-	49	5	7	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Brucellosis (undulant fever)-----044	16	24	43	636	669	1,060	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Diphtheria-----055	18	14	27	572	932	1,090	108	106	186	July 1
Encephalitis, infectious-----062	81	42	35	1,063	1,073	1,006	503	444	413	June 1
Hepatitis, infectious, and serum-----092,N998.5 pt.	279	276	448	10,599	13,573	21,100	15,798	21,076	---	Sept. 1
Malaria-----110-117	6	3	18	84	141	411	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Measles-----085	1,410	1,627	1,419	447,350	574,398	574,398	484,554	603,496	603,496	Sept. 1
Meningococcal infections-----057	43	25	58	1,631	1,913	3,009	2,362	2,836	4,238	Sept. 1
Meningitis, other-----340	56	55	---	1,378	955	---	---	---	---	---
Polioomyelitis-----080	319	894	1,994	3,217	7,073	12,893	2,691	6,006	11,220	Apr. 1
Paralytic-----080.0,080.1	81	388	---	1,054	3,381	---	780	2,798	---	Apr. 1
Nonparalytic-----080.2	190	361	---	1,663	2,532	---	1,500	2,247	---	Apr. 1
Unspecified-----080.3	48	145	---	500	1,160	---	411	961	---	Apr. 1
Psittacosis-----096.2	4	6	6	185	360	194	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Rabies in man-----094	-	-	-	3	6	4	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
Typhoid fever-----040	56	53	60	815	1,145	1,295	558	833	893	Apr. 1
Typhus fever, endemic-----101	1	1	1	76	70	113	51	51	83	Apr. 1
Rabies in animals-----	52	65	99	3,025	3,299	4,876	3,989	4,326	6,475	Oct. 1

<sup>1</sup>Data exclude report from Nevada for the current week.

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

<sup>3</sup>Reports show 1 case in Maryland and 1 case in New Jersey.

<sup>4</sup>Includes revised report from Washington State for week ended August 10, 1957.

NOTE.—Los Angeles County (California) has reported 2 cases of suspected botulism. Home-canned tuna fish is suspected to be the source.

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

## EPIDEMIOLOGICAL REPORTS—Continued

pains. His condition deteriorated rapidly with signs of cardiovascular collapse; and he died several hours later. At autopsy, consolidation of the lungs was found. Specimens of lung and heart tissue were sent to Walter Reed Army Institute of Research where an Asian strain of influenza A virus was isolated from the tissues. It was stated that at least 5,000 infectious particles per gram of tissue were found.

Dr. F. M. Davenport, University of Michigan, has reported further isolations of an Asian strain of virus from Mexican laborers at Three Rivers and Deckerville, Michigan. Both outbreaks of influenza in labor camps located in New York State, which were reported last week, have been confirmed by laboratory tests as Asian type of influenza. An Asian strain of virus has been isolated from inmates of the Fresno County (California) Jail. Dr. J. D. Martin reports the serologic evidence of influenza A/Denver/57 in a sporadic case in New Orleans. Serologic evidence of influenza has been obtained in cases in Oregon; and by virus isolation, in a Boy Scout returning to this State.

Up to the present time, mortality data from 114 cities in the United States show no evidence of an increase which might be attributed to influenza.

Aseptic meningitis due to ECHO-9 virus

Dr. E. R. Krumbiegel, Milwaukee (Wisconsin) Commissioner of Health, has reported an extensive outbreak of aseptic meningitis caused by ECHO-9 virus, in Milwaukee. In the investigation being carried out in association with Dr. A. B. Sabin of the University of Cincinnati, it has been found that the disease has been widely disseminated throughout the city and also involves suburban area within a radius of 30 miles. A total of 115 cases have been hospitalized; but nursing visits in homes suggest a large number of cases, estimated to be about 10,000. The incubation period of the infection has not been determined. In 12 households surveyed, 34 of the 59 members gave a history of illness. Thirty-one of the 34 had fever, 17 had headache (mostly frontal), 5 had vomiting, 6 had stiffness of the neck, 14 complained of sore throat, 7 had conjunctivitis, and 20 had a rash. The rash, which was maculopapular and pink or pinkish-red in color, appeared about 1 to 3 days after onset. The illness was often mistaken for measles. Hospitalized cases had fever ranging from 101° to 103° F. Spinal fluid cell counts have been high—1,500 or more cells. There have been no deaths, and residual paralyses have not been seen. Up to the present time Dr. Sabin has recovered 37 strains of virus, 25 of which have been typed as ECHO-9. Five strains have been recovered from spinal fluid. The virus may also be obtained from stools and throat washings. They can be isolated by tissue culture using monkey kidney or human amniotic cells, but not when Hela cells are used. This outbreak appears to be the first communitywide outbreak of ECHO-9 infection in the United States. However, a localized outbreak was discovered by Dr. Sabin in a suburb in Cincinnati among persons who had come back from Florida. The disease has been reported in Europe.

Botulism

The Washington State Department of Health has reported 5 cases of botulism in a family in Walla Walla County. One of the patients, a 6-year-old child, died and 3 others were hospitalized. The suspect food item was a "gluten" preparation made on July 28 in a pressure cooker. A jar of this was cooked with fresh vegetables on August 3 and eaten that evening and again the next morning. Botulinus toxin was found in this food.

Anthrax

Dr. A. M. Washburn, Arkansas State Board of Health, has reported a case of human anthrax in a veterinarian. The patient's clientele are distributed over several southeastern counties. This area is reported to have had previous outbreaks of anthrax in animals, but no reported cases in the past 2 years. One night the veterinarian performed an autopsy on a cow after dark with the aid of a flashlight. During the examination he received an insect bite on the back of his left hand. According to the veterinarian the animal examined at this time did not have anthrax. Furthermore, the veterinarian did not recall being around any known cases of anthrax in animals. About 5 days after receiving the insect bite he noticed an enlarged red spot on his hand. By the end of 7 days the spot had become a papule or vesicle which later developed into a large edematous swelling, going much deeper and involving the adjacent tissues. The hand and the wrist were very badly swollen. The patient did not feel very ill, and his temperature never exceeded 100° F. The diagnosis was laboratory confirmed by demonstration of bacilli in the exudate from the lesion. It was impossible to trace further the source of this infection. The area is under observation for any additional cases of anthrax in man or animals.

Rabies in man

Dr. G. E. McDaniel, South Carolina State Board of Health, has given additional information on the case of human rabies reported for the week ended June 1, 1957. The victim, a 10-year-old boy, was given antirabies vaccine made with brain tissue on the same day that he was bitten and he continued to receive 2 doses a day for 7 days and 1 dose a day for the next 7 days for a total of 21 doses. He was given 5 cc. of hyperimmune serum on the day following the biting episode. The child became ill with frontal headache and anorexia and developed a sore throat. There was no history of excitement, irritability, lethargy, or confusion. There was no increase of pain of the throat at sight of food or water. However, 2 days after onset he became very irritable and there was moderate excitement; restlessness and irritability continued. After death a post-mortem examination of the brain showed atypical bodies not definitely identified as Negri bodies. The brain of mice inoculated showed typical Negri bodies.

Typhoid fever

Dr. A. C. Offutt, Indiana State Board of Health, has reported an outbreak of typhoid fever, which was first thought to be influenza, in a convent. Thirty-two cases were reported during the latter part of July. No new cases have been reported since August 4. This appears to be a common source outbreak but the source itself has not yet been determined. *Salmonella typhosa* has been isolated from specimens from some patients. During the period of onset of the outbreak about 500 Sisters, coming from many parts of the country, were spending about a month at the convent.

Shigellosis

Dr. Mason Romaine, Virginia Department of Health, has reported an outbreak of shigellosis among members of 3 rural families. Of 17 persons in these families, 11 became ill with headache, nausea, vomiting, chills, generalized aching, abdominal pain, diarrhea, and fever. Laboratory examination of stool specimens collected revealed 3 were positive for *Shigella sonnei*. The probable mode of transmission was direct contact between children in 2 families, and in the third, flies aided by

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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 AUGUST 18, 1956 AND AUGUST 17, 1957

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

AREA	BRUCELLOSIS (UNDULANT FEVER)		DIPHTHERIA 055				ENCEPHALITIS, INFECTIOUS		HEPATITIS, INFECTIOUS, AND SERUM 092, N998.5 pt.			
	044		33d week		Cumulative first 33 weeks		082		33d week		Cumulative first 33 weeks	
	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956	1957	1956
CONT. UNITED STATES <sup>1</sup> -----	16	24	18	14	572	932	81	42	279	276	10,599	13,573
NEW ENGLAND-----	-	-	-	-	19	9	2	1	12	14	578	878
Maine-----	-	-	-	-	3	-	-	-	-	6	181	214
New Hampshire-----	-	-	-	-	-	1	-	-	-	1	8	27
Vermont-----	-	-	-	-	-	-	-	-	-	1	86	105
Massachusetts-----	-	-	-	-	16	8	1	1	6	4	166	220
Rhode Island-----	-	-	-	-	-	-	-	-	5	-	55	115
Connecticut-----	-	-	-	-	-	-	1	-	1	2	82	197
MIDDLE ATLANTIC-----	-	1	1	1	57	45	4	7	53	67	1,631	2,910
New York-----	-	1	1	1	30	17	3	7	30	40	974	1,492
New Jersey-----	-	-	-	-	9	12	1	-	10	3	221	265
Pennsylvania-----	-	-	-	1	18	16	-	-	13	24	436	1,153
EAST NORTH CENTRAL-----	6	4	-	-	37	174	17	15	52	25	1,856	2,056
Ohio-----	-	-	-	-	8	14	5	9	11	9	464	508
Indiana-----	-	1	-	-	9	84	4	4	11	3	269	300
Illinois-----	5	-	-	-	3	8	4	1	17	2	404	478
Michigan-----	-	1	-	-	15	66	3	1	10	5	526	537
Wisconsin-----	1	2	-	-	2	2	1	-	3	6	193	233
WEST NORTH CENTRAL-----	6	11	1	-	51	91	4	-	18	17	634	1,137
Minnesota-----	3	3	-	-	21	25	-	-	6	11	230	358
Iowa-----	2	4	1	-	7	17	2	-	4	1	150	298
Missouri-----	-	1	-	-	1	10	-	-	1	1	106	61
North Dakota-----	-	2	-	-	3	5	1	-	6	-	81	87
South Dakota-----	-	-	-	-	6	6	1	-	-	4	27	142
Nebraska-----	-	-	-	-	8	25	-	-	1	-	18	90
Kansas-----	1	1	-	-	5	3	-	-	-	-	22	101
SOUTH ATLANTIC-----	1	3	3	5	161	197	1	4	30	19	806	853
Delaware-----	-	-	-	-	-	-	-	-	1	-	7	25
Maryland-----	-	-	-	1	1	1	-	3	3	1	83	71
District of Columbia-----	-	-	-	-	-	1	-	-	-	1	9	16
Virginia-----	1	-	-	-	10	22	-	-	9	7	316	332
West Virginia-----	-	-	-	-	4	5	-	-	-	-	62	50
North Carolina-----	-	-	-	1	22	26	-	1	5	3	72	79
South Carolina-----	-	2	2	1	27	47	-	-	1	3	22	53
Georgia-----	-	-	1	2	36	41	-	-	2	2	86	114
Florida-----	-	1	-	-	61	54	1	-	9	2	149	113
EAST SOUTH CENTRAL-----	1	4	7	1	76	121	1	2	23	21	1,433	1,201
Kentucky-----	-	2	-	-	12	9	-	1	9	8	612	372
Tennessee-----	1	1	1	-	8	19	1	1	6	5	540	512
Alabama-----	-	-	5	-	34	59	-	-	7	2	177	149
Mississippi-----	-	1	1	1	22	35	-	-	1	6	104	168
WEST SOUTH CENTRAL-----	2	1	2	3	120	226	40	1	21	27	786	1,015
Arkansas-----	1	-	1	-	10	17	-	1	1	1	59	91
Louisiana-----	-	-	1	-	10	25	1	-	1	6	44	108
Oklahoma-----	-	-	-	-	17	56	4	-	-	2	93	75
Texas-----	1	1	-	3	83	128	35	1	19	18	590	741
MOUNTAIN <sup>1</sup> -----	-	-	-	1	21	24	-	1	14	14	916	1,219
Montana-----	-	-	-	-	5	3	-	-	-	6	120	308
Idaho-----	-	-	-	-	1	1	-	1	2	1	64	158
Wyoming-----	-	-	-	1	1	4	-	-	-	-	45	64
Colorado-----	-	-	-	-	2	3	-	-	2	1	143	273
New Mexico-----	-	-	-	-	8	5	-	-	6	2	315	109
Arizona-----	-	-	-	-	3	5	-	-	4	2	169	242
Utah-----	-	-	-	-	1	3	-	-	-	1	35	61
Nevada-----	-	-	-	-	1	-	-	-	-	1	125	4
PACIFIC-----	-	-	4	3	30	45	12	11	56	72	1,959	2,304
Washington-----	-	-	3	3	22	8	-	2	4	9	259	497
Oregon-----	-	-	-	-	2	10	-	-	8	15	368	451
California-----	-	-	1	-	6	27	12	9	44	48	1,332	1,356
Alaska-----	-	-	-	-	-	35	-	-	1	1	57	65
Hawaii-----	-	-	-	-	-	-	-	-	1	5	35	34
Puerto Rico-----	1	-	3	-	36	48	-	-	-	7	116	173

<sup>1</sup>Data exclude report from Nevada for the current week.

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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 AUGUST 18, 1956 AND AUGUST 17, 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 <sup>2</sup>				Paralytic		Nonparalytic		110-117		085	
	33d week		Cumulative first 33 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 <sup>1</sup> -----	319	894	3,217	7,073	81	368	190	361	6	3	1,410	1,627
NEW ENGLAND-----	1	16	36	134	-	5	1	10	-	-	95	38
Maine-----	-	-	3	12	-	-	-	-	-	-	10	7
New Hampshire-----	-	-	3	3	-	-	-	-	-	-	-	-
Vermont-----	-	-	2	16	-	-	-	-	-	-	5	12
Massachusetts-----	-	9	11	64	-	2	-	6	-	-	51	14
Rhode Island-----	-	-	-	7	-	-	-	-	-	-	2	-
Connecticut-----	1	7	17	32	-	3	1	4	-	-	27	5
MIDDLE ATLANTIC-----	13	64	135	416	-	14	8	35	-	-	224	421
New York-----	5	45	81	285	-	11	5	28	-	-	174	334
New Jersey-----	5	12	28	67	-	3	3	7	-	-	33	31
Pennsylvania-----	3	7	26	64	-	-	-	-	-	-	17	56
EAST NORTH CENTRAL-----	135	342	612	1,757	32	176	76	108	-	-	380	265
Ohio-----	17	33	123	202	8	10	3	4	-	-	28	51
Indiana-----	19	34	69	136	9	21	4	6	-	-	11	10
Illinois-----	20	180	119	1,052	9	111	6	53	-	-	46	38
Michigan-----	47	62	182	224	5	21	41	35	-	-	42	57
Wisconsin-----	32	33	119	143	1	13	22	10	-	-	253	109
WEST NORTH CENTRAL-----	32	113	268	570	4	14	18	77	-	-	51	48
Minnesota-----	2	16	30	62	-	2	2	14	-	-	1	-
Iowa-----	8	52	35	205	-	7	7	51	-	-	28	25
Missouri-----	10	21	76	152	4	7	4	3	-	-	5	6
North Dakota-----	-	2	5	8	-	1	-	1	-	-	9	13
South Dakota-----	4	3	28	21	-	-	-	-	-	-	4	1
Nebraska-----	3	7	53	51	-	1	2	5	-	-	4	2
Kansas-----	5	12	41	71	-	3	3	3	-	-	-	1
SOUTH ATLANTIC-----	43	88	472	656	15	42	25	32	1	1	107	244
Delaware-----	-	1	4	8	-	-	-	1	-	-	-	-
Maryland-----	-	2	7	27	-	2	-	-	-	-	22	7
District of Columbia-----	7	-	15	3	5	-	2	-	-	-	7	2
Virginia-----	2	13	46	82	-	8	2	5	-	-	29	17
West Virginia-----	2	7	16	49	-	4	2	2	-	-	4	107
North Carolina-----	22	23	156	136	4	13	17	10	1	-	4	12
South Carolina-----	4	11	91	56	-	2	2	5	-	-	17	28
Georgia-----	6	13	49	93	6	8	-	2	-	1	9	10
Florida-----	-	18	88	202	-	5	-	7	-	-	15	61
EAST SOUTH CENTRAL-----	21	45	242	306	7	14	13	22	-	1	53	118
Kentucky-----	7	15	49	91	5	3	2	11	-	1	10	22
Tennessee-----	7	14	81	62	-	5	7	8	-	-	15	64
Alabama-----	2	3	30	29	-	-	2	-	-	-	27	25
Mississippi-----	5	13	82	124	2	6	2	3	-	-	1	7
WEST SOUTH CENTRAL-----	35	101	792	1,463	10	58	23	39	-	-	160	184
Arkansas-----	3	11	50	84	1	8	2	3	-	-	4	10
Louisiana-----	6	35	120	392	2	19	4	16	-	-	3	2
Oklahoma-----	5	10	79	123	1	2	2	4	-	-	9	11
Texas-----	21	45	543	864	6	29	15	16	-	-	144	161
MOUNTAIN <sup>1</sup> -----	10	36	155	370	6	12	4	11	-	1	156	56
Montana-----	-	2	5	21	-	-	-	1	-	-	9	5
Idaho-----	1	3	14	51	1	1	-	-	-	-	41	11
Wyoming-----	1	1	9	12	-	1	1	-	-	-	3	1
Colorado-----	-	11	22	50	-	6	-	5	-	-	22	7
New Mexico-----	6	6	39	34	4	3	2	1	-	-	28	8
Arizona-----	2	6	37	85	1	1	1	4	-	1	26	12
Utah-----	-	7	25	95	-	-	-	-	-	-	27	11
Nevada-----	-	-	14	22	-	-	-	-	-	-	-	1
PACIFIC-----	29	89	505	1,401	7	53	22	27	5	-	184	253
Washington-----	1	17	4	76	-	6	1	2	-	-	18	50
Oregon-----	-	7	34	88	-	4	-	3	-	-	63	38
California-----	28	65	467	1,237	7	43	21	22	5	-	103	165
Alaska-----	-	1	2	8	-	1	-	-	-	-	6	19
Hawaii-----	-	1	2	56	-	1	-	-	-	1	2	92
Puerto Rico-----	4	-	21	34	4	-	-	-	-	-	29	32

<sup>1</sup>Data exclude report from Nevada for the current week.

<sup>2</sup>Includes cases not specified by type, category number 080.3.

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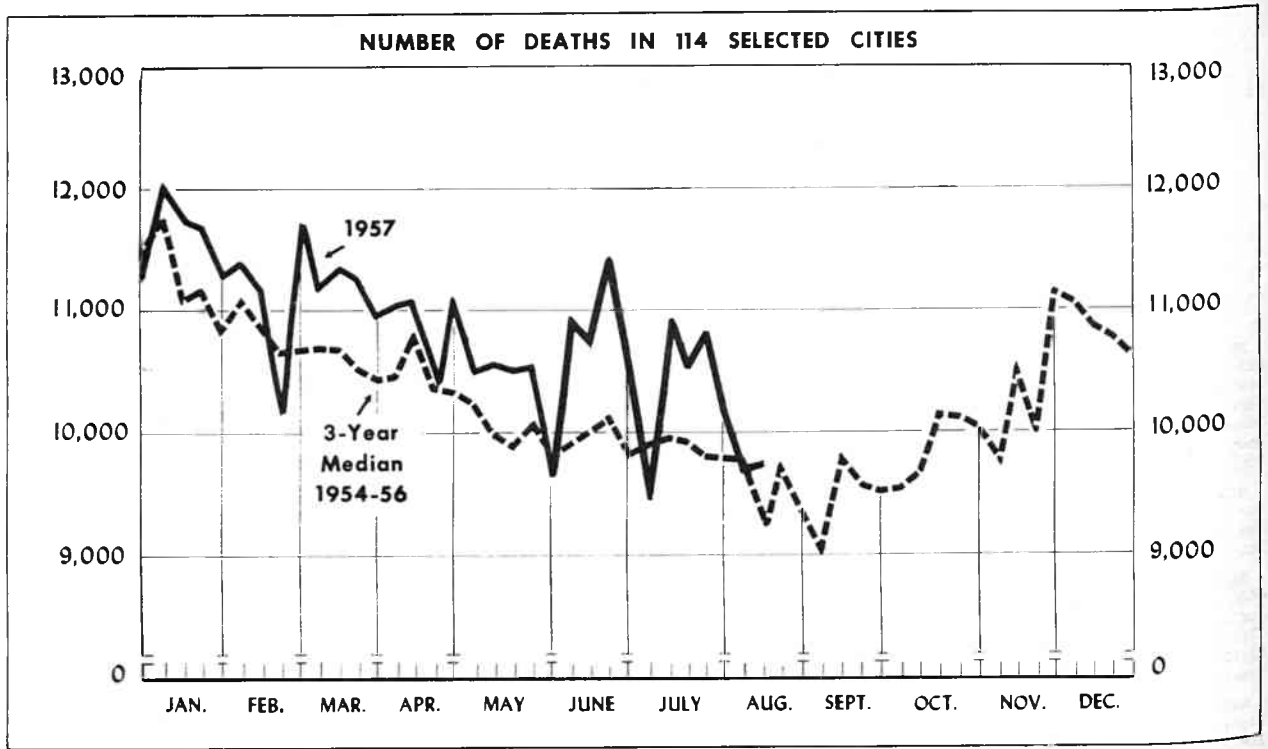
Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, ALASKA, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED AUGUST 18, 1956 AND AUGUST 17, 1957—Continued

(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			340	096.2		33d week		Cumulative first 33 weeks		101	1957
	1957	1956	1957	1957	1956	1957	1956	1957	1956	1957	1957	1956
CONF. UNITED STATES <sup>1</sup>	43	25	56	4	6	56	53	815	1,145	1	52	65
NEW ENGLAND-----	4	3	-	-	-	-	1	17	40	-	-	-
Maine-----	-	-	-	-	-	-	-	2	12	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	2	-	-	-	-
Vermont-----	1	-	-	-	-	-	-	-	1	-	-	-
Massachusetts-----	1	1	-	-	-	-	1	7	13	-	-	-
Rhode Island-----	-	-	-	-	-	-	-	4	5	-	-	-
Connecticut-----	2	2	-	-	-	-	-	2	9	-	-	-
MIDDLE ATLANTIC-----	5	1	-	1	1	1	7	82	154	-	8	10
New York-----	1	1	-	1	-	1	2	34	42	-	7	9
New Jersey-----	2	-	-	-	1	-	3	18	20	-	-	-
Pennsylvania-----	2	-	-	-	-	-	2	30	92	-	1	1
EAST NORTH CENTRAL-----	5	1	13	1	1	26	1	106	164	-	3	-
Ohio-----	-	-	-	-	-	3	-	41	32	-	-	-
Indiana-----	1	-	5	-	-	21	-	36	19	-	-	-
Illinois-----	2	1	7	-	1	1	1	12	32	-	2	-
Michigan-----	-	-	1	-	-	-	-	10	40	-	-	-
Wisconsin-----	2	-	-	1	-	1	-	7	41	-	1	-
WEST NORTH CENTRAL-----	2	4	4	2	1	5	5	59	147	-	6	16
Minnesota-----	1	-	-	2	-	-	-	4	32	-	3	7
Iowa-----	-	1	4	-	1	2	1	15	55	-	1	1
Missouri-----	1	1	-	-	-	3	1	31	34	-	1	2
North Dakota-----	-	1	-	-	-	-	-	1	6	-	-	-
South Dakota-----	-	-	-	-	-	-	-	4	3	-	-	-
Nebraska-----	-	1	-	-	-	-	2	-	10	-	1	6
Kansas-----	-	-	-	-	-	-	1	4	7	-	-	-
SOUTH ATLANTIC-----	10	5	24	-	2	6	16	168	189	-	14	15
Delaware-----	-	1	-	-	-	-	-	1	1	-	-	-
Maryland-----	-	1	4	-	1	-	1	3	16	-	-	-
District of Columbia-----	-	-	2	-	-	-	-	8	11	-	-	-
Virginia-----	2	-	14	-	-	6	3	34	31	-	6	4
West Virginia-----	1	-	2	-	-	-	2	40	19	-	-	1
North Carolina-----	4	2	-	-	1	-	1	12	21	-	-	-
South Carolina-----	-	-	-	-	-	-	5	13	22	-	4	6
Georgia-----	-	1	2	-	-	-	-	22	35	-	2	-
Florida-----	2	-	-	-	-	-	4	35	33	-	2	4
EAST SOUTH CENTRAL-----	7	3	8	-	-	5	8	131	137	-	6	14
Kentucky-----	1	-	1	-	-	-	1	38	26	-	2	2
Tennessee-----	-	1	6	-	-	3	1	54	55	-	-	1
Alabama-----	5	2	-	-	-	-	1	9	13	-	4	10
Mississippi-----	1	-	1	-	-	2	5	30	43	-	-	1
WEST SOUTH CENTRAL-----	4	-	5	-	-	10	8	173	204	1	12	4
Arkansas-----	1	-	3	-	-	-	1	30	42	-	1	2
Louisiana-----	-	-	-	-	-	3	-	41	34	-	-	2
Oklahoma-----	-	-	1	-	-	2	1	19	26	-	2	-
Texas-----	3	-	1	-	-	5	6	83	102	1	9	-
MOUNTAIN <sup>2</sup> -----	2	2	2	-	1	2	6	32	40	-	-	2
Montana-----	1	1	-	-	-	-	-	2	3	-	-	-
Idaho-----	-	-	-	-	-	-	-	2	2	-	-	-
Wyoming-----	-	-	-	-	-	-	-	2	2	-	-	-
Colorado-----	-	-	1	-	-	2	-	9	8	-	-	-
New Mexico-----	1	-	1	-	-	-	-	11	11	-	-	-
Arizona-----	-	1	-	-	1	-	6	6	11	-	-	2
Utah-----	-	-	-	-	-	-	-	-	1	-	-	-
Nevada-----	-	-	-	-	-	-	-	1	2	-	-	-
PACIFIC-----	4	6	-	-	-	1	1	47	70	-	3	4
Washington-----	1	-	-	-	-	1	-	3	1	-	-	-
Oregon-----	-	1	-	-	-	-	1	5	7	-	-	-
California-----	3	5	-	-	-	-	-	39	62	-	-	4
Alaska-----	-	-	-	-	-	-	-	1	1	-	-	-
Hawaii-----	-	-	-	-	-	-	-	4	-	-	-	-
Puerto Rico-----	-	-	-	-	-	1	1	15	36	-	-	1

<sup>1</sup>Data exclude report from Nevada for the current week.

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



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	33d week ended Aug. 17, 1957	32d week ended Aug. 10, 1957	33d week median 1954-56	Percent change, median to current week	CUMULATIVE NUMBER FIRST 33 WEEKS		
					1957	1956	Percent change
TOTAL: 110 REPORTING CITIES-----	9,595	9,579	9,090	+5.6	352,678	343,210	+2.8
New England----- (14 cities)	595	578	595	0	23,138	22,530	+2.7
Middle Atlantic----- (19 cities)	2,825	2,701	2,620	+7.8	105,267	101,519	+1.7
East North Central----- (17 cities)	2,024	1,995	1,960	+3.3	73,409	72,291	+1.5
West North Central----- (9 cities)	695	740	666	+4.4	25,477	24,652	+3.3
South Atlantic----- (11 cities)	770	794	793	-2.9	30,105	29,242	+3.0
East South Central----- (7 cities)	443	448	406	+9.1	14,823	14,591	+1.6
West South Central----- (13 cities)	830	821	712	+16.6	30,104	27,832	+8.2
Mountain----- (8 cities)	259	251	207	+25.1	8,908	8,125	+9.6
Pacific----- (12 cities)	1,154	1,251	1,145	+0.8	43,447	42,428	+2.4

# Morbidity and Mortality Weekly Report

Table 4. DEATHS IN SELECTED CITIES

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

AREA	33d week ended Aug. 17, 1957	32d week ended Aug. 10, 1957	CUMULATIVE NUMBER FIRST 33 WEEKS		AREA	33d week ended Aug. 17, 1957	32d week ended Aug. 10, 1957	CUMULATIVE NUMBER FIRST 33 WEEKS	
			1957	1956				1957	1956
<b>NEW ENGLAND</b>					<b>WEST NORTH CENTRAL—Con.</b>				
Boston, Mass.-----	201	207	7,850	7,606	St. Louis, Mo.-----	230	242	7,854	7,795
Bridgeport, Conn.-----	46	29	1,244	1,228	St. Paul, Minn.-----	62	52	2,206	2,216
Cambridge, Mass.-----	23	30	999	990	Wichita, Kans.-----	23	55	1,460	1,343
Fall River, Mass.-----	16	26	893	928	<b>SOUTH ATLANTIC</b>				
Hartford, Conn.-----	36	35	1,614	1,549	Atlanta, Ga.-----	108	78	3,596	3,629
Lowell, Mass.-----	34	30	921	803	Baltimore, Md.-----	201	218	7,943	7,818
Lynn, Mass.-----	17	13	680	696	Charlotte, N. C.-----	18	38	1,090	1,024
New Bedford, Mass.-----	18	10	811	756	Jacksonville, Fla.-----	48	49	1,768	1,692
New Haven, Conn.-----	45	42	1,532	1,527	Miami, Fla.-----	58	43	1,617	1,692
Providence, R. I.-----	44	44	2,075	2,084	Norfolk, Va.-----	23	26	1,196	1,054
Somerville, Mass.-----	9	19	460	526	Richmond, Va.-----	70	61	2,480	2,358
Springfield, Mass.-----	44	32	1,414	1,374	Savannah, Ga.-----	50	27	976	962
Waterbury, Conn.-----	26	22	835	835	Tampa, Fla.-----	53	59	2,072	1,989
Worcester, Mass.-----	36	39	1,810	1,628	Washington, D. C.-----	125	164	6,144	6,102
<b>MIDDLE ATLANTIC</b>					Wilmington, Del.-----	36	31	1,223	1,142
Albany, N. Y.-----	39	38	1,622	1,616	<b>EAST SOUTH CENTRAL</b>				
Allentown, Pa.-----	30	35	1,263	1,244	Birmingham, Ala.-----	69	99	2,584	2,548
Buffalo, N. Y.-----	80	142	4,722	4,634	Chattanooga, Tenn.-----	52	51	1,533	1,392
Camden, N. J.-----	26	38	1,327	1,292	Knoxville, Tenn.-----	31	21	918	1,135
Elizabeth, N. J.-----	24	30	953	926	Louisville, Ky.-----	96	92	3,447	3,527
Erie, Pa.-----	27	36	1,181	1,112	Memphis, Tenn.-----	111	86	3,556	3,286
Jersey City, N. J.-----	49	68	2,290	2,337	Mobile, Ala.-----	---	(25)	---	(1,101)
Newark, N. J.-----	71	83	3,440	3,218	Montgomery, Ala.-----	24	33	800	959
New York City, N. Y.-----	1,537	1,324	52,401	51,492	Nashville, Tenn.-----	60	66	1,985	1,744
Peterborough, N. J.-----	38	30	1,292	1,230	<b>WEST SOUTH CENTRAL</b>				
Philadelphia, Pa.-----	409	429	16,175	15,973	Austin, Tex.-----	37	30	1,009	923
Pittsburgh, Pa.-----	166	160	5,976	6,069	Baton Rouge, La.-----	20	24	830	737
Reading, Pa.-----	---	(18)	---	(716)	Corpus Christi, Tex.-----	20	18	694	632
Rochester, N. Y.-----	88	90	3,145	3,103	Dallas, Tex.-----	99	114	3,644	3,523
Schenectady, N. Y.-----	21	28	773	738	El Paso, Tex.-----	27	30	1,024	890
Scranton, Pa.-----	41	36	1,262	1,158	Fort Worth, Tex.-----	66	51	2,066	1,913
Syracuse, N. Y.-----	76	46	1,911	1,946	Houston, Tex.-----	133	142	4,999	4,415
Trenton, N. J.-----	43	35	1,478	1,452	Little Rock, Ark.-----	31	44	1,798	1,501
Utica, N. Y.-----	24	30	1,052	985	New Orleans, La.-----	190	148	5,700	5,317
Yonkers, N. Y.-----	36	23	1,004	994	Oklahoma City, Okla.-----	65	52	2,048	2,055
<b>EAST NORTH CENTRAL</b>					San Antonio, Tex.-----	84	94	3,159	2,891
Akron, Ohio-----	42	41	1,776	1,735	Shreveport, La.-----	39	34	1,538	1,503
Canton, Ohio-----	29	29	1,019	938	Tulsa, Okla.-----	19	40	1,595	1,532
Chicago, Ill.-----	736	606	24,763	24,468	<b>MOUNTAIN</b>				
Cincinnati, Ohio-----	146	138	5,016	5,027	Albuquerque, N. Mex.-----	28	19	839	746
Cleveland, Ohio-----	150	203	6,839	6,815	Colorado Springs, Colo.-----	18	12	457	425
Columbus, Ohio-----	102	112	3,718	3,545	Denver, Colo.-----	103	106	3,655	3,595
Dayton, Ohio-----	---	(54)	---	(2,179)	Ogden, Utah-----	16	13	404	411
Detroit, Mich.-----	289	287	10,712	10,562	Phoenix, Ariz.-----	25	28	969	871
Evansville, Ind.-----	38	30	1,014	1,097	Pueblo, Colo.-----	12	13	419	398
Flint, Mich.-----	---	(38)	---	(1,285)	Salt Lake City, Utah-----	47	42	1,465	1,506
Fort Wayne, Ind.-----	33	43	1,181	1,174	Tucson, Ariz.-----	10	18	700	173
Gary, Ind.-----	28	32	966	939	<b>PACIFIC</b>				
Grand Rapids, Mich.-----	40	37	1,354	1,379	Berkeley, Calif.-----	22	17	630	560
Indianapolis, Ind.-----	105	120	3,891	3,849	Long Beach, Calif.-----	54	60	1,786	1,724
Milwaukee, Wis.-----	103	128	4,303	4,107	Los Angeles, Calif.-----	453	425	15,784	15,454
Peoria, Ill.-----	33	30	1,000	927	Oakland, Calif.-----	70	91	3,145	3,008
South Bend, Ind.-----	27	24	851	798	Pasadena, Calif.-----	26	38	1,173	1,176
Toledo, Ohio-----	88	83	3,167	3,110	Portland, Oreg.-----	70	121	3,143	3,133
Youngstown, Ohio-----	35	52	1,839	1,821	Sacramento, Calif.-----	40	43	1,684	1,586
<b>WEST NORTH CENTRAL</b>					San Diego, Calif.-----	68	78	2,636	2,479
Des Moines, Iowa-----	50	61	1,807	1,673	San Francisco, Calif.-----	170	160	6,330	6,292
Duluth, Minn.-----	24	22	869	878	Seattle, Wash.-----	109	150	4,325	4,206
Kansas City, Kans.-----	24	39	995	1,043	Spokane, Wash.-----	38	49	1,528	1,555
Kansas City, Mo.-----	114	97	3,938	3,632	Tacoma, Wash.-----	54	39	1,285	1,255
Minneapolis, Minn.-----	103	116	4,104	3,923	Honolulu, Hawaii-----	(28)	(38)	(1,264)	(1,150)
Omaha, Nebr.-----	65	56	2,244	2,149					

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

# Morbidity and Mortality Weekly Report

## EPIDEMIOLOGICAL REPORTS—Continued

the primitive sanitary conditions still found in rural areas. The source of the original case was not found.

Dr. D. S. Fleming, Minnesota State Department of Health, has reported a family outbreak of shigellosis in a rural household. Eleven of a family of 13 became ill with fever, vomiting, and diarrhea. One, a 3-year-old girl, died after 24 hours of illness. *S. flexneri*, group 2, was isolated from stool specimens from 3 patients. The source of the first case, which was the mother, was not found.

### Gastro-enteritis

The Los Angeles County (California) Health Department has reported 4 cases of gastro-enteritis occurring after the ingestion of French dip ham sandwiches in a restaurant. Laboratory examination of stool specimens from the 4 patients revealed coagulase-negative *Staphylococcus aureus*. No pathogenic organisms were found in specimens of gravy and drippings. The source of this outbreak was not determined.

### Yellow fever virus in Panama

The Government of Panama has informed the Pan American Sanitary Bureau, WHO, that the virus of yellow fever has been isolated from a batch of *Haemagogus lucifer* mosquitoes captured in Peñas Blancas, Province of Colón. This locality is near the Trans-Isthmian Highway, 20 miles southeast of the city of Colón.

## QUARANTINE MEASURES

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

Africa.—Sudan (Supplement, p. 5) now requires smallpox vaccination of all arrivals, and cholera and yellow fever vaccinations of arrivals from infected areas.

## 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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