

# 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 November 14, 1959

For the week ended November 14, 1959, a total of 187 cases of poliomyelitis was reported; of these, 143 were paralytic and 26 nonparalytic cases. For the preceding week the total was 180, of which 136 were paralytic cases. During the week ended November 15, 1958, 160 cases were reported, including 107 classified as paralytic. For the current week, the numbers of paralytic cases were about the same or less than those for the previous week in all geographic divisions but the West North Central Division. Delayed reports of paralytic cases in Iowa account for much of the apparent increase in the totals for the Nation.

The Virginia Morbidity Report for the week ended October 24 states that of the 225 paralytic cases reported by October 27, 94 (42 percent) have occurred in children under 5 years of age and 51 (23 percent) in the age group 5 to 9 years. Of the 37 nonparalytic cases, only 5 have been in children under 5

years of age; 12 were in the age group 5 to 9 years, and 13 were in the age group 10 to 14. Twenty-five of the paralytic cases were in persons who had received 3 or more doses of vaccine; 144 persons had received none.

The age distribution of 120 paralytic cases reported in Pennsylvania by October 31 shows that the highest percentage of cases was in the 5 to 9 year age group—35 percent. Only 28 percent of the cases have been in children under 5 years. Five of 35 persons with nonparalytic disease were under 5 years of age, and 8 were in each of the age groups 5 to 9 years and 10 to 14 years. Thirty-two of the persons with paralytic disease had received 3 or 4 inoculations; 65 had received none.

The North Carolina communicable disease summary for the week ended November 7 states that type I poliovirus has

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

(See page 8 for source and nature of data)

DISEASE (Seventh Revision of International Lists, 1955)	45th WEEK			CUMULATIVE NUMBER						Approximate seasonal low point
	Ended Nov. 14, 1959	Ended Nov. 15, 1958	Median 1954-58	First 45 weeks			Since seasonal low week			
				1959	1958	Median 1954-58	1958-59	1957-58	Median 1953-54 to 1957-58	
Anthrax-----062	-	-	-	12	13	19	(1)	(1)	(1)	(1)
Botulism-----049.1	-	1	-	21	4	11	(1)	(1)	(1)	(1)
Brucellosis (undulant fever)-----044	11	7	18	641	712	948	(1)	(1)	(1)	(1)
Diphtheria-----055	17	27	48	746	697	1,253	358	375	508	July 1
Encephalitis, infectious-----082	34	60	29	1,953	2,115	1,728	1,372	1,521	1,172	June 1
Hepatitis, infectious, and serum-----092, 998.5 pt.	435	334	334	19,389	13,253	16,710	4,611	3,172	3,199	Sept. 1
Malaria-----110-117	1	2	3	67	66	220	(1)	(1)	(1)	(1)
Measles-----085	2,455	2,958	2,558	375,857	723,785	573,431	13,572	19,041	14,581	Sept. 1
Meningococcal infections-----057	53	45	60	1,953	2,241	2,309	389	521	521	Sept. 1
Meningitis, other-----340	2102	125	---	4,845	3,860	---	---	---	---	---
Poliomyelitis-----080	187	160	236	7,902	5,396	14,574	7,634	5,209	13,595	Apr. 1
Paralytic-----080.0, 080.1	143	107	117	5,150	2,711	6,261	4,963	2,608	5,730	Apr. 1
Nonparalytic-----080.2	26	37	69	2,092	1,892	5,660	2,047	1,833	5,398	Apr. 1
Unspecified-----080.3	18	16	50	660	793	2,653	624	768	2,467	Apr. 1
Psittacosis-----096.2	1	1	2	96	128	243	(1)	(1)	(1)	(1)
Rabies in man-----094	-	-	-	4	4	5	(1)	(1)	(1)	(1)
Typhoid fever-----040	18	19	26	767	942	1,535	643	776	1,245	Apr. 1
Typhus fever, endemic-----101	1	-	1	41	64	107	35	53	83	Apr. 1
Rabies in animals-----	83	69	65	3,376	4,020	4,119	517	433	467	Oct. 1

<sup>1</sup>Data show no pronounced seasonal change in incidence.

<sup>2</sup>Includes 34 cases of aseptic meningitis; see footnote to table 2.

been isolated from 51 patients and type III from 8. No isolations of type II poliovirus have been made in North Carolina this year.

#### EPIDEMIOLOGICAL REPORTS

##### Arthropod-borne encephalitis

Dr. James O. Bond, Florida State Board of Health, has supplied the following provisional report of an outbreak of encephalitis in Florida. Dr. W. C. Ballard, Pinellas County Health Officer, has reported an unusual occurrence of illness in humans with a preliminary diagnosis of encephalitis during September and October. At least 75 individuals have had some symptoms and are considered as suspect cases for investigation. Of these, it is estimated that at least 30 are confirmed cases of encephalitis, and an equal number have evidence of an aseptic inflammatory disease of the central nervous system but are without encephalitic symptoms. Extensive laboratory examinations of sera, stools, cerebral spinal fluid, and brain tissue are in process. Two cases have had etiologies established. A 75-year-old white male with clinical encephalitis exhibited a rise in complement-fixation antibodies in paired sera from negative to greater than 1:16 against eastern equine encephalitis. A 72-year-old white female with a similar illness showed a rise in titer from 1:5 to 1:10 in paired sera taken late in the course of her illness. Laboratory studies for viral agents in the remainder of the specimens tested have been negative to date. Three deaths have occurred. Clinical and autopsy findings agreed with the diagnosis of acute encephalitis. Virus studies are in process for 2 of these deaths. The epidemiology of the illness indicates a marked selection for the elderly; however, many of the milder cases have occurred in children and young adults. There has been little evidence of significant associations of cases by sex, race, place of residence, or with mosquitoes, other insects, or other common vehicles or vectors. Extensive mosquito and animal studies, including collections of wild birds, are underway.

Dr. Charlotte Silverman, Maryland State Department of Health, supplied information on a case of eastern equine encephalitis in a 54-year-old female resident of Somerset County. The woman had visited a beach resort in Worcester County over the Labor Day weekend. On September 22, she became ill with headache, malaise, fever, and severe prostration. This was followed by semi-stupor, and flaccid paralysis of the left arm. By October 15, she had made a nearly complete recovery. A serum specimen taken on September 25 was positive in a titer of 1:160 against EEE antigen, and a specimen taken on October 4 was positive in a titer of 1:320. There was no reaction to western equine antigen.

##### Tularemia

The Kansas summary of notifiable diseases for the month of September states that so far during 1959, 48 cases of tularemia have been recorded and 11 more are pending confirmation. During the corresponding 9 months of 1958, only 8 cases had been reported. One infection reported this year was contracted while dressing quail. Another case occurred in a 76-year-old man who developed a cutaneous lesion on his finger at the site of a cut by a fin of a fish which he had caught. Positive agglutination tests, axillary lymphadenopathy, and other typical symptoms followed. Another unusual case was reported in a 51-year-old housewife who, when first examined, was suffering from chills and fever. An X-ray revealed a localized pneumonitis. Laboratory studies revealed a white

cell count of 9,400, of which 19 percent were lymphocytes. Agglutination tests were negative. Initially she responded to treatment, but for the next month, she had repeated episodes of fever, cough, malaise, and weakness despite treatment with various antibiotics. At the end of a month, agglutination studies were found to be strongly positive for tularemia. One month later, the tests were repeated and again were strongly positive. The woman stated that she had handled and cooked wild rabbits but that they had always been well-cooked. She had never shown any evidence of a cutaneous lesion nor adenopathy which could be ascribed to tularemia.

##### Leptospirosis

Dr. R. A. Tjalma, State University of Iowa College of Medicine, has supplied the following preliminary report on an outbreak of leptospirosis in Iowa. The investigation was carried out in considerable detail by the Institute of Agricultural Medicine, the Communicable Disease Center (PHS), and the Iowa State Department of Health. In mid-September, the routine epidemiological investigation of a hospitalized patient led to a diagnosis of leptospirosis. Further investigation revealed that 2 members of the patient's immediate family were also hospitalized with an undiagnosed febrile illness. Clinical symptomatology and serologic studies supported a diagnosis of leptospirosis in these 2 cases. A local swimming hole located on a rural creek was implicated as the probable exposure source for the 3 cases. Epidemiological investigation of those persons known to have had swimming exposure in the stream and/or suggestive clinical illness has resulted in the identification of approximately 36 cases to date. Preliminary information indicates at least 8 of the cases resulted from swimming exposure in local creeks other than the one originally identified. Investigation of domestic animals known to have had access to the various streams has revealed many herds of cattle serologically positive for leptospirosis. The Veterinary Public Health Laboratory Unit of the Communicable Disease Center is conducting isolation studies on urine specimens collected from patients and suspect infected animals. To date, Leptospira have been isolated from urine of 2 of the 10 serologically positive cattle located immediately adjacent to and upstream from the swimming hole associated with the majority of the cases. Leptospira have also been isolated from the urine of 2 patients. A spirochete, possibly a pathogenic Leptospira, has been isolated from water collected from the primary swimming hole. The isolated strains of Leptospira have not yet been typed, but clinical symptoms and repeated serologic studies on individual patients indicate that the organism is probably L. pomona. Several hundred other cultures are under observation.

##### Staphylococcal food poisoning

Information has been received from Region IX of the U.S. Public Health Service of the occurrence of staphylococcal food poisoning aboard 2 commercial aircraft. Two persons on 1 flight and 4 on the other became ill after eating a meal consisting of tossed salad, stuffed celery, a meat dish, spaghetti, vegetables, and dessert. Staphylococci in large numbers were isolated from 2 meat samples, 2 spaghetti and vegetable samples combined, and 1 sample of mixed salad. Of the 15 isolated colonies examined by concentrated phage typing, 9 were type 7 and 6 were nontypable. No Shigella nor Salmonella were found in any samples. None of the staphylococci reacted in phage tests at routine test dilutions.

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED NOVEMBER 15, 1958, AND NOVEMBER 14, 1959

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

AREA	BRUCELLOSIS (undulant fever) 044		DIPHTHERIA 055				ENCEPHALITIS, INFECTIOUS 082		HEPATITIS, INFECTIOUS, AND SERUM 092,N998.5 pt.			
			45th week		Cumulative first 45 weeks				45th week		Cumulative first 45 weeks	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES-----	11	7	17	27	746	697	34	60	435	334	19,389	13,253
NEW ENGLAND-----	-	-	-	-	5	6	-	3	17	28	643	521
Maine-----	-	-	-	-	-	-	-	-	-	2	88	65
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	15	2
Vermont-----	-	-	-	-	-	-	-	-	-	2	23	26
Massachusetts-----	-	-	-	-	5	5	-	1	11	18	322	264
Rhode Island-----	-	-	-	-	-	-	-	1	-	4	65	66
Connecticut-----	-	-	-	-	-	1	-	1	6	2	130	98
MIDDLE ATLANTIC-----	-	-	-	-	48	34	3	3	61	48	2,879	1,805
New York-----	-	-	-	-	25	16	3	-	36	33	1,706	1,225
New Jersey-----	-	-	-	-	9	2	-	1	2	5	304	147
Pennsylvania-----	-	-	-	-	14	16	-	2	23	10	869	433
EAST NORTH CENTRAL-----	6	1	3	1	30	38	5	12	83	40	3,019	2,235
Ohio-----	-	-	2	-	11	8	3	7	24	12	872	700
Indiana-----	1	-	-	-	4	14	-	2	5	2	275	199
Illinois-----	1	1	1	1	10	9	-	2	23	8	675	546
Michigan-----	4	-	-	-	3	6	1	1	23	10	1,004	589
Wisconsin-----	-	-	-	-	2	1	1	-	8	8	193	201
WEST NORTH CENTRAL-----	3	3	-	2	55	105	1	12	25	29	1,506	1,117
Minnesota-----	-	-	-	1	22	45	-	-	4	7	377	167
Iowa-----	3	3	-	-	3	14	-	-	3	2	130	189
Missouri-----	-	-	-	-	6	14	1	-	1	5	388	221
North Dakota-----	-	-	-	-	2	3	-	1	9	5	316	211
South Dakota-----	-	-	1	3	3	17	-	2	1	-	61	16
Nebraska-----	-	-	-	-	19	10	-	-	-	7	78	79
Kansas-----	-	-	-	-	-	2	-	9	7	3	156	234
SOUTH ATLANTIC-----	-	1	2	15	227	226	4	2	41	26	1,748	1,036
Delaware-----	-	-	-	-	-	3	-	-	4	1	114	52
Maryland-----	-	-	-	-	7	2	2	-	5	10	357	138
District of Columbia-----	-	-	-	-	-	27	-	-	-	1	17	19
Virginia-----	-	-	-	1	12	12	-	1	13	2	433	249
West Virginia-----	-	-	-	-	3	25	-	-	11	1	278	138
North Carolina-----	-	-	1	2	23	33	-	-	2	1	109	57
South Carolina-----	-	-	1	3	28	70	-	-	-	-	47	39
Georgia-----	-	1	-	6	80	44	-	-	-	8	120	128
Florida-----	-	-	-	3	74	10	2	1	6	2	273	216
EAST SOUTH CENTRAL-----	1	1	2	3	96	74	7	-	50	18	1,926	1,104
Kentucky-----	1	-	-	-	9	4	2	-	34	8	932	538
Tennessee-----	-	1	-	-	8	8	5	-	2	6	435	294
Alabama-----	-	-	2	2	38	35	-	-	11	3	411	193
Mississippi-----	-	-	-	1	41	27	-	-	3	1	148	79
WEST SOUTH CENTRAL-----	-	-	9	4	251	160	4	17	33	19	1,551	1,032
Arkansas-----	-	-	-	2	37	32	1	-	2	2	77	96
Louisiana-----	-	-	3	2	78	61	-	-	1	-	112	12
Oklahoma-----	-	-	-	-	3	22	-	-	1	3	211	143
Texas-----	-	-	6	-	133	45	3	17	29	14	1,151	781
MOUNTAIN-----	1	-	1	1	19	41	1	2	62	67	2,507	1,802
Montana-----	-	-	-	-	-	8	-	-	8	5	217	358
Idaho-----	-	-	-	-	-	1	-	-	20	11	312	171
Wyoming-----	-	-	-	-	-	2	-	-	2	-	55	17
Colorado-----	-	-	-	1	7	11	-	2	17	17	762	261
New Mexico-----	-	-	-	-	8	16	-	-	6	5	453	291
Arizona-----	-	-	-	-	2	3	-	-	6	17	502	438
Utah-----	1	-	-	-	-	-	1	-	3	12	184	165
Nevada-----	-	-	1	-	2	-	-	-	-	-	22	101
PACIFIC-----	-	1	-	1	15	13	9	9	63	59	3,610	2,601
Alaska-----	-	-	-	-	5	-	-	-	-	-	68	(72)
Washington-----	-	-	-	-	-	-	-	2	4	4	487	410
Oregon-----	-	-	-	1	4	8	-	-	14	11	745	392
California-----	-	1	-	-	6	5	9	7	45	44	2,310	1,799
Hawaii-----	-	-	-	-	2	-	-	-	1	-	43	58
Puerto Rico-----	-	-	-	1	27	44	-	-	-	2	266	137

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED NOVEMBER 15, 1958, AND NOVEMBER 14, 1959—Continued

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

AREA	POLIOMYELITIS 080										MEASLES	
	Total <sup>1</sup>				Paralytic 080.0,080.1				Nonparalytic			
	45th week		Cumulative first 45 weeks		45th week		Cumulative first 45 weeks		080.2		085	
	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958	1959	1958
CONT. UNITED STATES-----	187	160	7,902	5,396	143	107	5,150	2,711	26	37	2,455	2,958
NEW ENGLAND-----	14	1	351	89	11	1	270	55	2	-	193	252
Maine-----	2	-	68	4	2	-	68	4	-	-	32	15
New Hampshire-----	-	-	5	4	-	-	4	-	-	-	-	30
Vermont-----	3	-	8	6	2	-	7	5	1	-	68	58
Massachusetts-----	5	1	144	30	4	1	105	14	-	-	85	72
Rhode Island-----	-	-	10	3	-	-	7	3	-	-	-	2
Connecticut-----	4	-	116	42	3	-	79	29	1	-	8	75
MIDDLE ATLANTIC-----	29	14	754	650	23	11	495	356	3	2	132	769
New York-----	17	8	456	273	14	6	279	166	-	2	84	55
New Jersey-----	3	1	132	275	3	-	88	108	-	-	17	98
Pennsylvania-----	9	5	166	102	6	5	128	82	3	-	31	616
EAST NORTH CENTRAL-----	29	45	1,196	1,956	18	21	519	736	6	14	518	388
Ohio-----	5	17	264	367	3	6	118	106	-	3	65	86
Indiana-----	5	4	150	123	4	4	98	68	-	-	18	111
Illinois-----	7	3	297	227	3	2	151	80	2	-	224	54
Michigan-----	9	18	435	1,179	6	7	127	456	3	10	96	71
Wisconsin-----	3	3	50	60	2	2	25	26	1	1	115	66
WEST NORTH CENTRAL-----	31	16	1,508	359	22	11	790	180	3	4	70	245
Minnesota-----	9	2	237	30	8	2	192	23	1	-	30	6
Iowa-----	11	1	447	63	8	1	199	20	2	-	25	113
Missouri-----	11	8	485	147	6	7	264	105	-	1	2	15
North Dakota-----	-	-	13	41	-	-	6	23	-	-	11	107
South Dakota-----	-	1	13	13	-	-	-	1	-	-	-	2
Nebraska-----	-	4	134	34	-	1	69	4	-	3	2	2
Kansas-----	-	-	179	31	-	-	60	4	-	-	(*)	(*)
SOUTH ATLANTIC-----	30	26	1,208	774	28	17	955	427	1	9	100	356
Delaware-----	-	1	9	23	-	1	7	14	-	-	1	5
Maryland-----	1	4	39	23	1	2	38	19	-	2	11	35
District of Columbia-----	-	-	6	5	-	-	5	3	-	-	-	-
Virginia-----	4	4	285	138	4	4	241	116	-	-	56	75
West Virginia-----	7	12	185	189	7	6	153	118	-	6	7	157
North Carolina-----	11	1	267	94	10	-	224	35	1	1	6	22
South Carolina-----	-	1	80	26	-	1	44	16	-	-	3	-
Georgia-----	2	2	152	54	2	2	118	30	-	-	-	46
Florida-----	5	1	185	222	4	1	125	76	-	-	16	16
EAST SOUTH CENTRAL-----	20	16	814	332	16	13	618	167	4	3	186	62
Kentucky-----	2	6	97	64	2	6	78	52	-	-	83	-
Tennessee-----	14	4	363	107	10	2	273	45	4	2	96	51
Alabama-----	2	6	242	48	2	5	204	38	-	1	6	10
Mississippi-----	2	-	112	113	2	-	63	32	-	-	1	1
WEST SOUTH CENTRAL-----	7	25	1,096	682	4	21	713	451	2	4	324	134
Arkansas-----	2	2	293	25	2	2	223	23	-	-	4	2
Louisiana-----	-	-	134	75	-	-	92	51	-	-	-	1
Oklahoma-----	4	-	150	56	2	-	84	23	1	-	2	1
Texas-----	1	23	519	526	-	19	314	354	1	4	318	130
MOUNTAIN-----	6	5	186	193	3	1	105	92	2	-	330	438
Montana-----	-	1	10	64	-	-	4	41	-	-	73	226
Idaho-----	1	-	7	12	-	-	-	-	-	-	30	5
Wyoming-----	-	2	2	12	-	-	1	1	-	-	2	2
Colorado-----	-	1	25	20	-	1	17	15	-	-	16	148
New Mexico-----	-	1	41	36	-	-	24	16	-	-	44	11
Arizona-----	4	-	84	33	2	-	52	13	2	-	8	28
Utah-----	1	-	11	11	1	-	4	4	-	-	120	18
Nevada-----	-	-	6	5	-	-	3	2	-	-	37	-
PACIFIC-----	21	12	789	361	18	11	685	247	3	1	602	314
Alaska-----	-	-	20	(2)	-	-	14	(1)	-	-	46	(72)
Washington-----	9	-	195	33	9	-	195	3	-	-	350	64
Oregon-----	1	-	156	37	-	-	121	24	1	-	62	87
California-----	11	12	418	291	9	11	355	220	2	1	144	163
Hawaii-----	-	-	5	75	-	-	5	75	-	-	142	10
Puerto Rico-----	-	-	4	54	-	-	3	51	-	-	7	89

<sup>1</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, HAWAII, AND PUERTO RICO, FOR WEEKS ENDED NOVEMBER 15, 1958, AND NOVEMBER 14, 1959—Continued

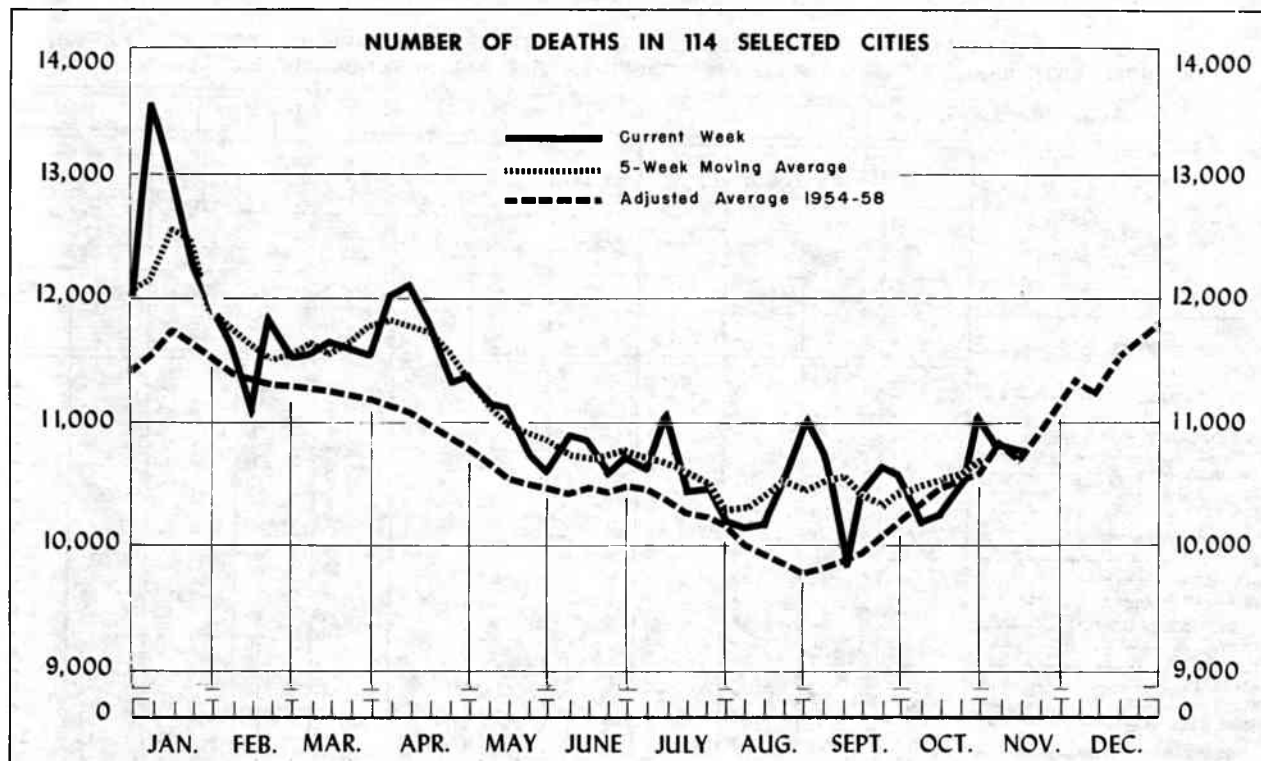
(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

AREA	MALARIA	MENINGOCOCCAL INFECTIONS		MENINGITIS, OTHER	PSITTACOSIS	TYPHOID FEVER 040				TYPHUS FEVER, ENDEMIC	RABIES IN ANIMALS	
	110-117	057		340	096.2	45th week		Cumulative first 45 weeks		101		
	1959	1959	1958	1959	1959	1959	1958	1959	1958	1959	1959	1958
CONT. UNITED STATES-----	1	53	45	102	1	18	19	767	942	1	83	69
NEW ENGLAND-----	-	3	3	6	-	-	-	15	19	-	-	-
Maine-----	-	1	-	1	-	-	-	2	2	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	1	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	2	1	4	-	-	-	-	5	9	-	-	-
Rhode Island-----	-	2	1	-	-	-	-	3	1	-	-	-
Connecticut-----	-	-	-	-	-	-	-	5	6	-	-	-
MIDDLE ATLANTIC-----	-	21	7	8	-	3	4	79	100	-	21	6
New York-----	-	19	3	24	-	1	1	35	33	-	19	5
New Jersey-----	-	1	3	34	-	-	3	12	22	-	-	-
Pennsylvania-----	-	1	1	-	-	2	-	32	45	-	2	1
EAST NORTH CENTRAL-----	1	12	9	32	1	-	-	98	98	-	-	8
Ohio-----	1	3	4	6	-	-	-	49	37	-	-	-
Indiana-----	-	1	-	3	-	-	-	15	16	-	-	4
Illinois-----	-	5	-	12	-	-	-	20	22	-	-	-
Michigan-----	-	3	3	10	-	-	-	8	13	-	-	-
Wisconsin-----	-	-	2	31	1	-	-	6	10	-	-	4
WEST NORTH CENTRAL-----	-	1	3	2	-	1	-	47	72	-	11	14
Minnesota-----	-	-	-	2	-	-	-	1	3	-	4	10
Iowa-----	-	-	-	-	-	1	-	9	14	-	3	2
Missouri-----	-	1	1	-	-	-	-	17	34	-	2	-
North Dakota-----	-	-	-	-	-	-	-	5	2	-	1	2
South Dakota-----	-	-	-	-	-	-	-	3	7	-	-	-
Nebraska-----	-	-	2	-	-	-	-	5	2	-	1	-
Kansas-----	-	-	-	-	-	-	-	7	10	-	-	-
SOUTH ATLANTIC-----	-	8	8	23	-	-	5	131	163	-	13	17
Delaware-----	-	-	-	-	-	-	-	2	5	-	-	-
Maryland-----	-	-	-	2	-	-	-	5	11	-	-	-
District of Columbia-----	1	-	-	-	-	-	-	4	6	-	-	-
Virginia-----	1	4	7	-	-	3	-	27	36	-	4	2
West Virginia-----	2	1	2	-	-	1	-	15	21	-	4	1
North Carolina-----	-	-	1	-	-	-	-	11	18	-	1	-
South Carolina-----	-	-	-	-	-	-	-	11	12	-	-	1
Georgia-----	1	-	1	-	-	1	-	28	32	-	1	11
Florida-----	3	2	31	-	-	-	-	28	22	-	3	2
EAST SOUTH CENTRAL-----	-	1	4	4	-	5	4	112	115	-	10	14
Kentucky-----	-	1	-	2	-	1	3	18	34	-	3	5
Tennessee-----	-	1	2	-	-	2	1	57	34	-	5	3
Alabama-----	-	1	-	-	-	2	-	21	19	-	2	6
Mississippi-----	-	2	-	-	-	-	-	16	28	-	-	-
WEST SOUTH CENTRAL-----	-	2	5	9	-	9	1	163	216	1	20	10
Arkansas-----	-	1	-	1	-	-	-	32	27	-	7	3
Louisiana-----	1	1	-	-	-	4	1	25	79	-	-	-
Oklahoma-----	-	2	2	-	-	1	-	17	11	-	-	-
Texas-----	-	2	6	-	-	4	-	89	101	1	13	7
MOUNTAIN-----	-	-	1	-	-	-	4	40	74	-	5	-
Montana-----	-	-	-	-	-	-	-	2	4	-	-	-
Idaho-----	-	-	-	-	-	-	1	5	7	-	-	-
Wyoming-----	-	-	-	-	-	-	1	7	4	-	-	-
Colorado-----	-	1	-	-	-	1	-	4	9	-	5	-
New Mexico-----	-	-	-	-	-	1	-	15	31	-	-	-
Arizona-----	-	-	-	-	-	-	-	6	11	-	-	-
Utah-----	-	-	-	-	-	-	-	1	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	8	-	-	-
PACIFIC-----	-	5	5	18	-	-	1	82	83	-	3	-
Alaska-----	-	-	-	-	-	-	-	4	-	-	-	-
Washington-----	2	1	1	-	-	-	-	2	3	-	-	-
Oregon-----	2	-	2	-	-	-	-	7	12	-	-	-
California-----	1	4	315	-	-	1	-	69	68	-	3	-
Hawaii-----	-	-	-	-	-	1	-	2	-	-	-	-
Puerto Rico-----	-	1	1	-	-	-	-	16	-	-	-	-

<sup>2</sup>Includes 3 cases of aseptic meningitis.<sup>3</sup>Aseptic meningitis.



## Morbidity and Mortality Weekly Report



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	45th week ended Nov. 14, 1959	44th week ended Nov. 7, 1959	Adjusted average, 45th week 1954-58	Percent change, adjusted average to current week <sup>1</sup>	CUMULATIVE NUMBER FIRST 45 WEEKS		
					1959	1958	Percent change
TOTAL, REPORTING CITIES-----	<sup>2</sup> 10,748	<sup>2</sup> 10,709	10,674	+0.7	<sup>2</sup> 498,970	495,790	+0.6
New England----- (14 cities)	708	687	713	-0.7	31,582	31,364	+0.7
Middle Atlantic----- (20 cities)	<sup>2</sup> 2,993	<sup>2</sup> 3,059	3,132	-4.4	<sup>2</sup> 143,893	142,977	+0.6
East North Central----- (19 cities)	2,379	2,307	2,302	+3.3	106,864	105,833	+1.0
West North Central----- (9 cities)	765	751	791	-3.3	34,760	35,086	-0.9
South Atlantic----- (11 cities)	939	938	895	+4.9	42,888	42,830	+0.1
East South Central----- (8 cities)	448	525	480	-6.7	22,907	23,115	-0.9
West South Central----- (13 cities)	946	911	862	+9.7	42,039	42,127	-0.2
Mountain----- (8 cities)	<sup>2</sup> 260	308	261	-0.4	<sup>2</sup> 13,942	13,234	+5.3
Pacific----- (12 cities)	1,310	1,312	1,296	+1.1	60,095	59,224	+1.5

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

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

## Morbidity and Mortality Weekly Report

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Table 4. DEATHS IN SELECTED CITIES

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

AREA	45th week ended Nov. 14, 1959	44th week ended Nov. 7, 1959	CUMULATIVE NUMBER FIRST 45 WEEKS		AREA	45th week ended Nov. 14, 1959	44th week ended Nov. 7, 1959	CUMULATIVE NUMBER FIRST 45 WEEKS	
			1959	1958				1959	1958
NEW ENGLAND:									
Boston, Mass.-----	242	243	10,768	10,745	WEST NORTH CENTRAL--Con.:				
Bridgeport, Conn.-----	38	29	1,762	1,679	St. Louis, Mo.-----	247	222	10,550	10,907
Cambridge, Mass.-----	22	30	1,269	1,289	St. Paul, Minn.-----	62	78	2,926	3,157
Fall River, Mass.-----	22	26	1,258	1,218	Wichita, Kans.-----	37	41	2,111	2,021
Hartford, Conn.-----	48	42	2,192	2,238	SOUTH ATLANTIC:				
Lowell, Mass.-----	23	29	1,054	1,147	Atlanta, Ga.-----	100	121	4,950	4,935
Lynn, Mass.-----	28	16	1,045	996	Baltimore, Md.-----	205	237	10,778	10,913
New Bedford, Mass.-----	26	30	1,087	1,026	Charlotte, N. C.-----	59	42	1,654	1,559
New Haven, Conn.-----	40	61	1,994	2,071	Jacksonville, Fla.-----	44	59	2,543	2,663
Providence, R. I.-----	62	61	2,887	2,888	Miami, Fla.-----	51	69	3,106	3,171
Somerville, Mass.-----	16	12	576	634	Norfolk, Va.-----	40	43	1,762	1,561
Springfield, Mass.-----	52	32	1,984	1,873	Richmond, Va.-----	84	73	3,473	3,349
Waterbury, Conn.-----	32	23	1,249	1,178	Savannah, Ga.-----	29	31	1,469	1,444
Worcester, Mass.-----	57	53	2,457	2,382	St. Petersburg, Fla.-----	(66)	(54)	(2,885)	(2,855)
MIDDLE ATLANTIC:									
Albany, N. Y.-----	43	37	2,265	2,209	Tampa, Fla.-----	42	56	2,773	2,868
Allentown, Pa.-----	27	42	1,539	1,445	Washington, D. C.-----	254	177	8,693	8,703
Buffalo, N. Y.-----	158	149	6,504	6,676	Wilmington, Del.-----	31	30	1,687	1,664
Camden, N. J.-----	45	36	1,845	1,852	EAST SOUTH CENTRAL:				
Elizabeth, N. J.-----	33	40	1,351	1,315	Birmingham, Ala.-----	95	89	3,706	3,886
Erie, Pa.-----	32	56	1,652	1,594	Chattanooga, Tenn.-----	37	47	2,060	2,132
Jersey City, N. J.-----	60	50	3,242	3,111	Knoxville, Tenn.-----	19	28	1,273	1,199
Newark, N. J.-----	116	90	4,493	4,241	Louisville, Ky.-----	103	101	5,054	4,890
New York City, N. Y.-----	1,563	1,641	73,806	72,426	Memphis, Tenn.-----	96	117	5,043	5,145
Paterson, N. J.-----	32	50	1,735	1,817	Mobile, Ala.-----	42	41	1,725	1,701
Philadelphia, Pa.-----	422	351	21,761	22,293	Montgomery, Ala.-----	15	35	1,465	1,512
Pittsburgh, Pa.-----	130	183	8,242	8,476	Nashville, Tenn.-----	41	67	2,581	2,650
Reading, Pa.-----	117	121	2,978	946	WEST SOUTH CENTRAL:				
Rochester, N. Y.-----	93	90	4,542	4,519	Austin, Tex.-----	31	31	1,429	1,440
Schenectady, N. Y.-----	22	20	1,109	1,023	Baton Rouge, La.-----	43	32	1,234	1,232
Scranton, Pa.-----	31	45	1,632	1,561	Corpus Christi, Tex.-----	25	16	940	944
Syracuse, N. Y.-----	73	65	2,816	2,808	Dallas, Tex.-----	106	119	5,288	5,152
Trenton, N. J.-----	44	24	1,906	2,076	El Paso, Tex.-----	36	39	1,629	1,634
Utica, N. Y.-----	34	37	1,270	1,223	Fort Worth, Tex.-----	69	63	2,828	2,694
Yonkers, N. Y.-----	18	32	1,405	1,366	Houston, Tex.-----	173	107	6,932	7,046
EAST NORTH CENTRAL:									
Akron, Ohio-----	49	53	2,609	2,523	Little Rock, Ark.-----	53	49	2,388	2,444
Canton, Ohio-----	37	40	1,504	1,386	New Orleans, La.-----	167	171	7,565	7,745
Chicago, Ill.-----	739	707	33,723	33,642	Oklahoma City, Okla.-----	69	78	3,129	3,011
Cincinnati, Ohio-----	135	144	7,080	7,162	San Antonio, Tex.-----	84	100	4,230	4,344
Cleveland, Ohio-----	216	193	9,360	9,319	Shreveport, La.-----	35	45	2,270	2,196
Columbus, Ohio-----	154	131	5,298	5,147	Tulsa, Okla.-----	55	61	2,177	2,245
Dayton, Ohio-----	76	81	3,036	3,210	MOUNTAIN:				
Detroit, Mich.-----	334	319	14,685	14,235	Albuquerque, N. Mex.-----	26	30	1,335	1,259
Evansville, Ind.-----	43	34	1,640	1,703	Colorado Springs, Colo.-----	117	23	704	686
Flint, Mich.-----	47	36	1,801	1,680	Denver, Colo.-----	74	121	5,117	5,015
Fort Wayne, Ind.-----	46	29	1,632	1,559	Ogden, Utah-----	14	11	675	652
Gary, Ind.-----	23	35	1,328	1,395	Phoenix, Ariz.-----	51	43	2,276	1,996
Grand Rapids, Mich.-----	39	39	1,888	1,812	Pueblo, Colo.-----	15	13	624	580
Indianapolis, Ind.-----	116	141	6,163	5,818	Salt Lake City, Utah-----	42	56	2,170	2,151
Madison, Wis.-----	(38)	(37)	(1,341)	(1,467)	Tucson, Ariz.-----	21	11	1,041	895
Milwaukee, Wis.-----	119	126	5,719	5,887	PACIFIC:				
Peoria, Ill.-----	32	31	1,311	1,430	Berkeley, Calif.-----	21	16	761	832
Rockford, Ill.-----	(23)	(29)	(1,231)	(1,174)	Fresno, Calif.-----	(51)	(42)	(1,811)	(1,802)
South Bend, Ind.-----	38	26	1,235	1,186	Glendale, Calif.-----	(33)	(43)	(1,626)	(1,465)
Toledo, Ohio-----	82	99	4,449	4,379	Long Beach, Calif.-----	56	47	2,425	2,448
Youngstown, Ohio-----	54	43	2,403	2,360	Los Angeles, Calif.-----	449	524	21,543	21,543
WEST NORTH CENTRAL:									
Des Moines, Iowa-----	60	53	2,398	2,431	Oakland, Calif.-----	104	91	4,067	4,124
Duluth, Minn.-----	22	32	1,132	1,117	Pasadena, Calif.-----	31	28	1,412	1,546
Kansas City, Kans.-----	35	31	1,598	1,289	Portland, Oreg.-----	79	86	4,899	4,452
Kansas City, Mo.-----	130	125	5,376	5,435	Sacramento, Calif.-----	54	67	2,472	2,516
Lincoln, Nebr.-----	(21)	(31)	(1,167)	(1,125)	San Diego, Calif.-----	90	94	3,673	3,682
Minneapolis, Minn.-----	97	104	5,487	5,613	San Francisco, Calif.-----	193	144	8,665	8,458
Omaha, Nebr.-----	75	65	3,182	3,116	San Jose, Calif.-----	(33)	(29)	(1,157)	(1,009)
WEST NORTH CENTRAL--Con.:									
					Seattle, Wash.-----	134	141	6,137	6,035
					Spokane, Wash.-----	57	40	2,229	2,030
					Tacoma, Wash.-----	42	34	1,812	1,758
					Honolulu, Hawaii-----	(45)	(25)	(1,705)	(1,645)

<sup>1</sup>Estimated.<sup>2</sup>Includes estimate for current week and previous week.<sup>3</sup>Includes estimate for current week.

## EPIDEMIOLOGICAL REPORTS—Continued

Gastroenteritis

Dr. R. N. Barr, Executive Officer, Minnesota State Department of Health, reported that 5 persons became ill with gastroenteritis aboard an airline flight from Minneapolis. The symptoms were typical of a foodborne infection. There was no conclusive proof as to the food product involved, but the record of foods consumed indicated that Rock Cornish hen may have been the contaminated product. Identical meals were served the same day aboard another flight, and no illness was reported on that flight. The food service facility also prepares food for several other airlines, and no illness has been reported by those airlines.

Information from Region V of the U.S. Public Health Service reports an outbreak of gastroenteritis among a party of 47 persons aboard a train. All suffered some degree of illness. The group had a private car and had brought its own food, consisting of sandwiches, salads, coffee, and celery, aboard the train. None of the group ate in the railroad dining car facilities until just prior to reaching the train's destination. At that time a few of them went to the dining car to get hot broth and coffee.

## QUARANTINE MEASURES

Immunization Information for International Travel

Public Health Service Publication No. 384 (1959)

Changes Reported

Asia.—Pakistan (p. 42). Smallpox vaccination is now required of all arrivals from Herat (Afghanistan) only; delete Singapore. All other information remains the same.

Oceania.—Okinawa (p. 54). Delete all information and insert new information as follows:

Ryukyu Islands (United States Administration)	Smallpox vaccination is required of all arrivals.
	Cholera vaccination is required of all arrivals 6 months of age or over from infected areas.
	Yellow fever vaccination is required of all arrivals 6 months of age and over 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 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.

## 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--	( )

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