

# Morbidity and Mortality

Weekly  
Report

PUBLIC HEALTH SERVICE

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

Prepared by the

COMMUNICABLE DISEASE CENTER

MEIrose 4-5131

For release April 7, 1961

Atlanta 22, Georgia

Vol. 10, No. 13

## Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended April 1, 1961

**Influenza** - There have not been any reports of influenza activity in the continental United States with the exception of New York State (Vol. 10, No. 12). Deaths due to influenza and pneumonia for the nation are within limits of seasonal expectancy.

**Diphtheria** - Pennsylvania had 6 of the 9 cases reported this week. Dr. W. D. Schrack, Director, Communicable Disease Control has notified us that the cases occurred over the period March 10-24 in 3 families of Washington Township, a rural area in Lehigh County (Eastern Pennsylvania). In addition, six asymptomatic carriers have been found. Four cases and 2 carriers were

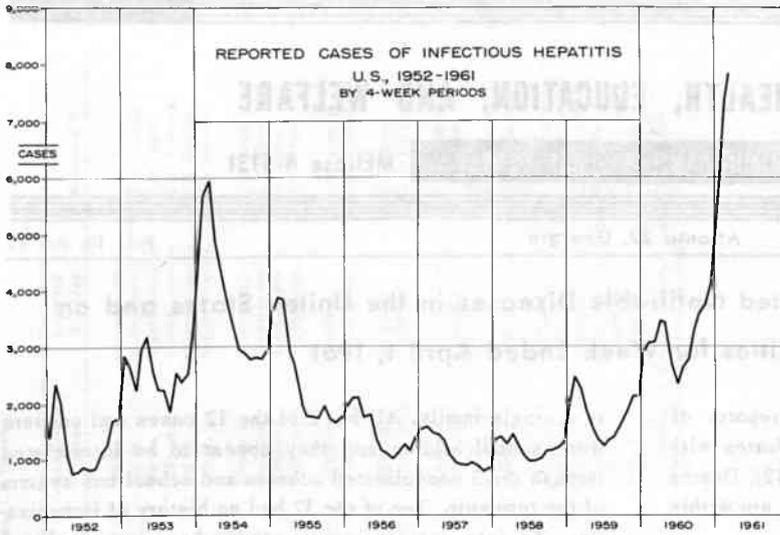
in a single family. All but 2 of the 12 cases and carriers were schoolchildren and they appear to be interrelated through the 2 consolidated schools and school bus system of the township. Ten of the 12 had no history of immunization. To date, toxigenic *mitis* strains have been isolated from 2 cases and 2 carriers. Classroom and school bus cultures are being done to find other carriers. In a mass immunization effort directed by a local physician more than 3,000 doses of pediatric and adult type D-T vaccine have been given. Followup immunizations are planned.

**Hepatitis** - The sustained high incidence continues. (See graph, page 2.)

Table 1. Cases of Specified Notifiable Diseases: United States

(Cumulative totals include revised and delayed reports through previous week)

Disease (Seventh Revision of International Lists, 1955)	13th Week			Cumulative						Approximate seasonal low point	
	Ended April 1, 1961	Ended April 2, 1960	Median 1956-60	First 13 weeks			Since seasonal low week				
				1961	1960	Median 1956-60	1960-61	1959-60	Median 1955-56 to 1959-60		
* Weekly incidence low or sporadic											
--- Data not available											
- Quantity zero											
Anthrax-----062	-	-	*	1	6	*	*	*	*	*	*
Botulism-----049.1	-	-	*	4	3	*	*	*	*	*	*
Brucellosis (undulant fever)-----044	17	11	16	134	189	184	*	*	*	*	
Diphtheria-----055	9	10	11	203	224	260	783	755	963	July 1	
Encephalitis, infectious-----082	40	35	35	342	348	306	342	348	306	Jan. 1	
Hepatitis, infectious, and serum-----092, N998.5 pt.	1,878	840	433	23,161	9,793	6,550	38,368	17,613	11,944	Sept. 1	
Malaria-----110-117	-	1	*	8	13	*	*	*	*	*	
Measles-----085	14,547	16,428	20,623	151,192	147,733	184,768	187,402	183,346	215,536	Sept. 1	
Meningitis, aseptic-----340 pt.	29	27	---	290	368	---	290	368	---	Jan. 1	
Meningococcal infections-----057	50	54	58	653	716	753	1,309	1,403	1,545	Sept. 1	
Polioyelitis-----080	4	9	30	107	216	293	3,171	8,490	8,490	Apr. 1	
Paralytic-----080.0,080.1	3	5	21	64	154	208	2,172	5,655	5,655	Apr. 1	
Nonparalytic-----080.2	1	3	4	25	36	48	647	2,153	2,153	Apr. 1	
Unspecified-----080.3	-	1	5	18	26	37	352	682	682	Apr. 1	
Psittacosis-----096.2	1	3	*	15	28	*	*	*	*	*	
Rabies in man-----094	-	-	*	2	-	*	*	*	*	*	
Streptococcal sore throat, including scarlet fever-----050,051	8,529	9,188	---	124,356	113,641	---	222,008	---	---	Aug. 1	
Typhoid fever-----040	14	8	10	115	127	180	818	854	1,192	Apr. 1	
Typhus fever, endemic-----101	1	-	*	9	5	*	*	*	*	*	
Rabies in animals-----	72	80	95	850	1,101	1,261	1,426	2,081	2,081	Oct. 1	



The graph shows reported hepatitis cases in the United States by 4 week periods since 1952. The recent period ending March 25 continues the upward trend noted earlier (Vol. 10, No. 10). However, the rate of ascent has not been as steep as in the two preceding 1961 periods. On the basis of the weekly trend, the next period ending April 22 should show a leveling off or slight decline. The 1961 cumulative total of 23,161 cases for the 13-week period ending April 1 is 138 percent above the number reported during a comparable period last year and well above the 17,101 cases reported in 1954. This week 1,878 cases were reported, a slight decline from last week's total of 1,914.

**Poliomyelitis** - Only 4 cases, 3 paralytic, were reported this week. The Pennsylvania case with onset on January 21, in Snyder County is the first 1961 case reported by this State. Other cases include an unvaccinated case in Guemsey County, Ohio, and cases in San Joaquin and Fresno Counties, California.

Thus far in 1961, 5 poliomyelitis deaths including 4 adults have been reported to CDC. Of these, 3 were unvaccinated and 1 had a single dose.

As part of the current nationwide surveillance of enteroviruses, a line listing of isolations from 1961 specimens reported by State laboratories is printed on page 8.

**Typhoid** - Dr. Samuel Andelman, Health Commissioner, Chicago, reports that since March 24, 12 children age six months to 14 years and one adult, age 24 years, have been hospitalized at the Cook County Hospital with confirmed or suspect typhoid fever. The cases originated in a West Side Chicago neighborhood. Ten of the 13 cases are from two families. An intensive epidemiologic investigation is in progress; typhoid immunizations are being administered extensively throughout this area and to contacts of cases.

**EPIDEMIOLOGICAL REPORT**

**Hepatitis - Mississippi and Alabama**

Seventy-seven cases of infectious hepatitis which occurred during the first 3 months of 1961 in Mississippi and Alabama have been traced to the consumption of raw oysters obtained from a localized area at the mouth of the heavily contaminated Pascagoula River (See Volume 10, Number 6).

Known cases were confined to the cities of Pascagoula, Mississippi; Mobile and Troy, Alabama and the immediately surrounding county areas. In each of these cities two-thirds or more of the reported cases gave a history of having eaten raw oysters 20 to 40 days prior to onset of symptoms. The oyster-related cases were predominately adults, many of whom were in the middle and upper socio-economic classes. Among these cases there was rarely a history of contact with a previous case of hepatitis. The following table shows total oyster-related cases in each of the cities and counties involved.

**Oyster-Related Hepatitis Cases by Place of Onset**

City and County	Total Cases Age		Oyster Related Cases Age	
	No.	<20 >20	No.	<20 >20
<b>Jackson County</b>				
Pascagoula	50	22 28	37	13 24
Rest of County	43	32 11	9	4 5
<b>Mobile County</b>				
Mobile	31	5 26	21	0 21
Rest of County	24	16 8	6	1 5
<b>Pike County</b>				
Troy	6	3 3	4	1 3
<b>Total</b>	154	78 76	77	19 58

The source of the oysters consumed in each of these cities could be traced to a single oyster bed located near a beacon at the mouth of the Pascagoula River about a mile below the point where raw sewage from the city is emptied. In the Pascagoula area, several of those who became ill had tonged their oysters directly from this bed, most of the remainder had purchased them from a local

(Continued on page 8.)

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED APRIL 2, 1960 AND APRIL 1, 1961

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

Area	Poliomyelitis 080										Menin- gitis, aseptic  340 pt.	Brucel- losis (undul- lant fever)  044
	Total (Includes cases not specified by type)				Paralytic 080.0,080.1				Nonparalytic			
	13th Week		Cumulative, first 13 weeks		13th Week		Cumulative, first 13 weeks		080.2			
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960		
UNITED STATES-----	4	9	107	216	3	5	64	154	1	3	29	17
NEW ENGLAND-----	-	-	3	6	-	-	3	6	-	-	2	-
Maine-----	-	-	-	2	-	-	-	2	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	-	-	2	4	-	-	2	4	-	-	2	-
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut-----	-	-	1	-	-	-	1	-	-	-	-	-
MIDDLE ATLANTIC-----	1	-	10	32	1	-	9	22	-	-	-	-
New York-----	-	-	3	28	-	-	2	18	-	-	-	-
New Jersey-----	-	-	2	3	-	-	2	3	-	-	-	-
Pennsylvania-----	1	-	5	1	1	-	5	1	-	-	-	-
EAST NORTH CENTRAL-----	1	2	16	27	1	1	10	7	-	-	6	2
Ohio-----	1	1	8	15	1	-	4	3	-	-	1	-
Indiana-----	-	-	1	-	-	-	1	-	-	-	-	-
Illinois-----	-	-	3	3	-	-	3	2	-	-	3	2
Michigan-----	-	1	1	7	-	1	1	2	-	-	2	-
Wisconsin-----	-	-	3	2	-	-	1	-	-	-	-	-
WEST NORTH CENTRAL-----	-	-	2	13	-	-	2	7	-	-	1	9
Minnesota-----	-	-	1	8	-	-	1	6	-	-	1	1
Iowa-----	-	-	-	3	-	-	-	1	-	-	-	7
Missouri-----	-	-	-	1	-	-	-	-	-	-	-	1
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	1	-	-	-	-	-	-	-	-
Nebraska-----	-	-	1	-	-	-	1	-	-	-	-	-
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC-----	-	2	10	41	-	2	6	34	-	-	2	2
Delaware-----	-	-	2	-	-	-	1	-	-	-	-	-
Maryland-----	-	-	-	1	-	-	-	-	-	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	1	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	1	-
West Virginia-----	-	1	2	3	-	1	1	3	-	-	-	-
North Carolina-----	-	-	3	12	-	-	2	12	-	-	-	1
South Carolina-----	-	-	-	2	-	-	-	2	-	-	-	-
Georgia-----	-	-	1	2	-	-	1	2	-	-	-	-
Florida-----	-	1	2	21	-	1	1	15	-	-	-	1
EAST SOUTH CENTRAL-----	-	-	13	8	-	-	2	7	-	-	2	1
Kentucky-----	-	-	13	6	-	-	2	5	-	-	1	-
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-
Alabama-----	-	-	-	1	-	-	-	1	-	-	-	-
Mississippi-----	-	-	-	1	-	-	-	1	-	-	1	1
WEST SOUTH CENTRAL-----	-	1	13	11	-	-	5	8	-	1	3	2
Arkansas-----	-	-	1	-	-	-	-	-	-	-	-	2
Louisiana-----	-	-	3	5	-	-	2	4	-	-	-	-
Oklahoma-----	-	-	-	1	-	-	-	1	-	-	-	-
Texas-----	-	1	9	5	-	-	3	3	-	1	3	-
MOUNTAIN-----	-	-	15	11	-	-	9	7	-	-	3	1
Montana-----	-	-	1	4	-	-	1	3	-	-	-	-
Idaho-----	-	-	3	4	-	-	1	1	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	3	-	-	-	3	-	-	-	-	-
New Mexico-----	-	-	1	-	-	-	-	-	-	-	3	1
Arizona-----	-	-	2	2	-	-	1	2	-	-	-	-
Utah-----	-	-	5	1	-	-	3	1	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC-----	2	4	25	67	1	2	18	56	1	2	10	-
Washington-----	-	-	-	6	-	-	-	6	-	-	-	-
Oregon-----	-	1	2	11	-	1	1	7	-	-	1	-
California-----	2	3	22	49	1	1	16	42	1	2	9	-
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii-----	-	-	1	1	-	-	1	1	-	-	-	-
Puerto Rico-----	1	1	2	26	1	1	2	26	-	-	-	-

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED APRIL 2, 1960 AND APRIL 1, 1961 - Continued

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

Area	Diphtheria 055				Encephalitis, Infectious		Hepatitis, infectious, and serum 092,N998.5 pt.				Measles	
	13th Week		Cumulative, first 13 weeks		082		13th Week		Cumulative, first 13 weeks		085	
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960
UNITED STATES-----	9	10	203	224	40	35	1,878	840	23,161	9,793	14,547	16,428
NEW ENGLAND-----	-	-	2	6	6	3	41	26	671	324	1,322	776
Maine-----	-	-	-	2	-	-	1	1	32	22	20	141
New Hampshire-----	-	-	-	-	-	-	1	4	46	9	70	13
Vermont-----	-	-	-	-	-	-	5	-	101	5	3	105
Massachusetts-----	-	-	2	3	3	1	20	15	224	169	628	-
Rhode Island-----	-	-	-	1	2	2	4	1	90	57	395	88
Connecticut-----	-	-	-	-	1	-	10	5	178	62	206	429
MIDDLE ATLANTIC-----	6	-	10	7	5	10	239	98	3,476	942	2,219	2,658
New York-----	-	-	3	1	1	6	120	39	1,417	476	1,030	2,132
New Jersey-----	-	-	-	1	2	3	65	12	842	68	549	385
Pennsylvania-----	6	-	7	5	2	1	54	47	1,217	398	640	141
EAST NORTH CENTRAL-----	-	1	5	20	2	1	353	203	4,430	1,947	4,404	4,904
Ohio-----	-	1	-	13	-	-	117	82	1,725	571	918	741
Indiana-----	-	-	-	3	-	1	58	31	723	293	207	427
Illinois-----	-	-	4	2	-	-	45	43	706	405	480	1,002
Michigan-----	-	-	1	2	2	-	132	45	1,159	559	1,093	1,377
Wisconsin-----	-	-	-	-	-	-	1	2	117	119	1,706	1,357
WEST NORTH CENTRAL-----	1	-	13	12	-	-	190	67	2,327	860	540	418
Minnesota-----	-	-	6	3	-	-	22	10	545	88	14	333
Iowa-----	-	-	1	2	-	-	87	6	595	161	234	31
Missouri-----	-	-	-	1	-	-	30	29	548	313	173	13
North Dakota-----	-	-	-	1	-	-	7	2	48	78	50	31
South Dakota-----	1	-	5	4	-	-	5	2	99	90	-	-
Nebraska-----	-	-	1	-	-	-	20	3	228	61	69	10
Kansas-----	-	-	-	1	-	-	19	15	264	69	NN	NN
SOUTH ATLANTIC-----	1	1	37	52	4	2	241	117	2,664	1,134	1,433	892
Delaware-----	-	-	-	-	-	-	25	6	85	56	84	7
Maryland-----	-	-	1	-	1	1	21	14	252	119	128	170
District of Columbia-----	1	-	1	-	-	-	4	2	26	10	4	78
Virginia-----	-	-	6	8	-	-	28	26	322	281	379	176
West Virginia-----	-	-	1	1	-	-	44	20	576	239	225	127
North Carolina-----	-	-	5	1	2	1	53	7	629	59	267	38
South Carolina-----	-	1	-	13	-	-	17	5	187	30	89	49
Georgia-----	-	-	7	8	-	-	30	9	279	106	48	3
Florida-----	-	-	16	21	1	-	19	28	308	234	209	244
EAST SOUTH CENTRAL-----	-	2	5	23	-	-	341	98	4,021	1,531	1,242	1,360
Kentucky-----	-	-	2	-	-	-	72	43	1,207	654	554	460
Tennessee-----	-	2	2	5	-	-	143	36	1,668	481	496	756
Alabama-----	-	-	1	12	-	-	73	11	656	293	143	50
Mississippi-----	-	-	-	6	-	-	53	8	490	103	49	94
WEST SOUTH CENTRAL-----	1	5	126	77	-	5	119	73	1,568	709	522	2,834
Arkansas-----	-	-	1	1	-	-	24	4	319	33	56	45
Louisiana-----	-	3	12	17	-	-	11	1	118	28	1	5
Oklahoma-----	-	-	2	5	-	1	4	8	108	117	-	27
Texas-----	1	2	111	54	-	4	80	60	1,023	531	465	2,757
MOUNTAIN-----	-	1	5	26	-	1	93	64	1,505	876	684	728
Montana-----	-	1	2	2	-	-	12	6	160	44	75	66
Idaho-----	-	-	-	11	-	-	6	4	84	126	56	113
Wyoming-----	-	-	-	5	-	1	10	1	59	6	4	3
Colorado-----	-	-	3	2	-	-	31	27	494	252	97	189
New Mexico-----	-	-	-	2	-	-	7	13	228	152	NN	-
Arizona-----	-	-	-	1	-	-	10	9	161	200	416	130
Utah-----	-	-	-	3	-	-	15	4	276	80	32	200
Nevada-----	-	-	-	-	-	-	2	-	43	16	4	27
PACIFIC-----	-	-	-	1	23	13	261	94	2,499	1,470	2,181	1,858
Washington-----	-	-	-	-	-	-	46	11	324	173	317	454
Oregon-----	-	-	-	-	-	-	38	18	456	279	170	293
California-----	-	-	-	-	23	13	130	62	1,588	910	1,678	951
Alaska-----	-	-	-	1	-	-	46	2	111	75	10	17
Hawaii-----	-	-	-	-	-	-	1	1	20	33	6	143
Puerto Rico-----	1	6	24	62	-	-	15	47	144	302	22	45

NN-Not Notifiable

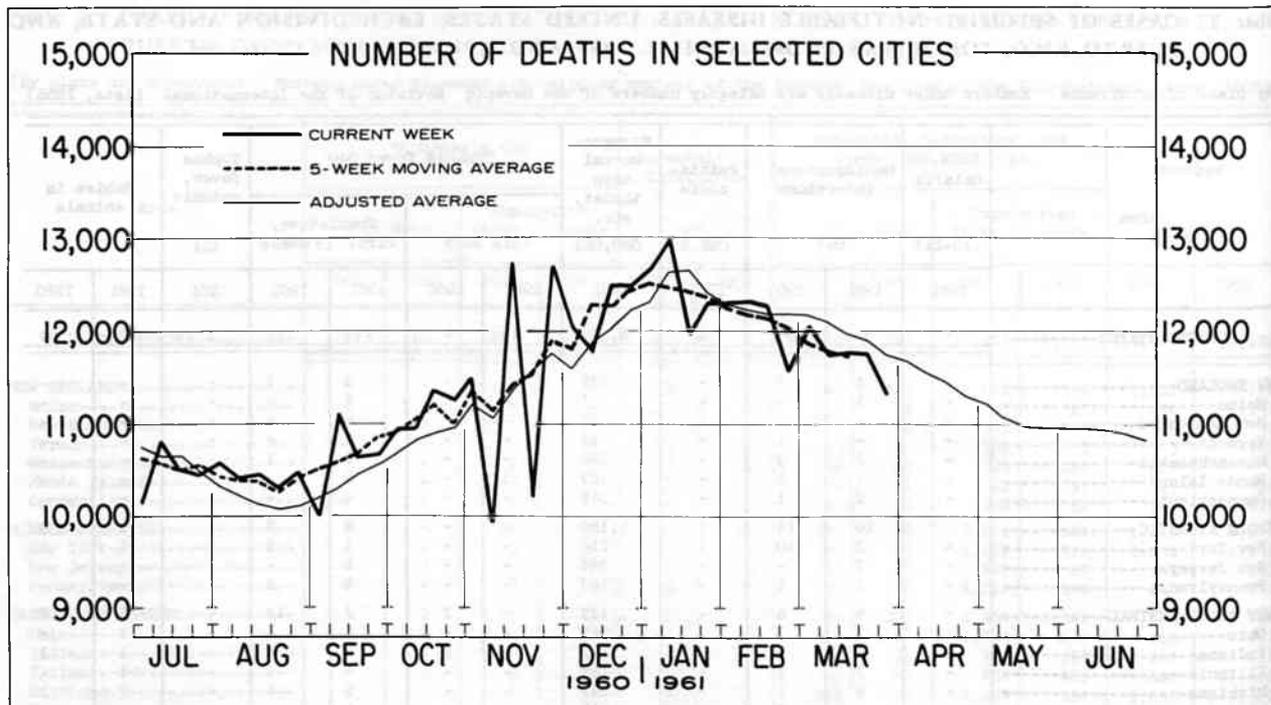
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(By place of occurrence. Numbers under diseases are category numbers of the Seventh Revision of the International Lists, 1955)

Area	Malaria		Meningococcal infections		Psittacosis	Streptococcal sore throat, etc.	Typhoid fever 040				Typhus fever, endemic	Rabies in animals	
	110-117		057		096.2	050,051	13th Week		Cumulative, first 13 weeks		101	1961	1960
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1961	1960
UNITED STATES-----	-	50	54	1	8,529	14	8	115	127	1	72	80	
NEW ENGLAND-----	-	5	7	-	729	1	-	3	1	-	-	-	
Maine-----	-	1	-	-	51	-	-	1	-	-	-	-	
New Hampshire-----	-	-	-	-	25	-	-	-	-	-	-	-	
Vermont-----	-	-	1	-	12	-	-	-	-	-	-	-	
Massachusetts-----	-	2	3	-	254	-	-	1	1	-	-	-	
Rhode Island-----	-	-	2	-	69	1	-	1	-	-	-	-	
Connecticut-----	-	2	1	-	318	-	-	-	-	-	-	-	
MIDDLE ATLANTIC-----	-	10	14	1	1,160	-	-	8	5	-	1	3	
New York-----	-	3	10	1	716	-	-	3	3	-	1	3	
New Jersey-----	-	2	-	-	284	-	-	1	-	-	-	-	
Pennsylvania-----	-	5	4	-	160	-	-	4	2	-	-	-	
EAST NORTH CENTRAL-----	-	9	6	-	1,135	-	2	7	12	-	5	10	
Ohio-----	-	1	1	-	247	-	-	4	1	-	1	-	
Indiana-----	-	-	2	-	193	-	2	1	4	-	1	3	
Illinois-----	-	2	1	-	185	-	-	-	3	-	1	-	
Michigan-----	-	6	1	-	299	-	-	1	4	-	2	7	
Wisconsin-----	-	-	1	-	211	-	-	1	-	-	-	-	
WEST NORTH CENTRAL-----	-	3	-	-	259	1	-	10	8	-	22	13	
Minnesota-----	-	1	-	-	9	1	-	4	-	-	2	5	
Iowa-----	-	-	-	-	73	-	-	1	-	-	8	2	
Missouri-----	-	2	-	-	29	-	-	4	7	-	6	5	
North Dakota-----	-	-	-	-	68	-	-	-	-	-	1	-	
South Dakota-----	-	-	-	-	-	-	-	-	1	-	4	-	
Nebraska-----	-	-	-	-	-	-	-	-	-	-	1	-	
Kansas-----	-	-	-	-	80	-	-	1	-	-	-	1	
SOUTH ATLANTIC-----	-	6	10	-	614	6	-	23	19	-	5	12	
Delaware-----	-	-	1	-	17	-	-	-	-	-	-	-	
Maryland-----	-	2	-	-	46	-	-	-	-	-	-	-	
District of Columbia-----	-	-	-	-	2	-	-	1	1	-	-	-	
Virginia-----	-	1	2	-	181	-	-	-	3	-	1	10	
West Virginia-----	-	1	2	-	244	1	-	4	1	-	4	1	
North Carolina-----	-	1	2	-	29	3	-	5	7	-	-	-	
South Carolina-----	-	-	-	-	27	1	-	2	5	-	-	-	
Georgia-----	-	-	-	-	9	-	-	9	-	-	-	1	
Florida-----	-	1	3	-	59	1	-	2	2	-	-	-	
EAST SOUTH CENTRAL-----	-	1	7	-	1,667	-	1	17	28	-	11	14	
Kentucky-----	-	-	-	-	409	-	-	4	10	-	1	3	
Tennessee-----	-	-	3	-	1,204	-	1	11	16	-	5	8	
Alabama-----	-	1	2	-	16	-	-	2	2	-	5	3	
Mississippi-----	-	-	2	-	38	-	-	-	-	-	-	-	
WEST SOUTH CENTRAL-----	-	4	2	-	539	3	4	20	33	1	16	27	
Arkansas-----	-	-	1	-	15	-	-	2	12	-	2	7	
Louisiana-----	-	-	-	-	3	1	1	3	10	-	2	-	
Oklahoma-----	-	2	-	-	23	-	-	2	2	-	-	1	
Texas-----	-	2	1	-	498	2	3	13	9	1	12	19	
MOUNTAIN-----	-	3	3	-	1,407	1	1	12	9	-	4	-	
Montana-----	-	-	-	-	47	-	1	1	5	-	-	-	
Idaho-----	-	-	-	-	134	-	-	-	-	-	-	-	
Wyoming-----	-	-	-	-	41	-	-	-	-	-	-	-	
Colorado-----	-	-	1	-	429	-	-	5	-	-	2	-	
New Mexico-----	-	1	-	-	334	1	-	2	4	-	2	-	
Arizona-----	-	1	-	-	165	-	-	2	-	-	-	-	
Utah-----	-	1	1	-	254	-	-	1	-	-	-	-	
Nevada-----	-	-	1	-	3	-	-	1	-	-	-	-	
PACIFIC-----	-	9	5	-	1,019	2	-	15	12	-	8	1	
Washington-----	-	-	1	-	441	-	-	1	-	-	-	-	
Oregon-----	-	-	-	-	50	-	-	-	-	-	-	-	
California-----	-	8	3	-	463	2	-	14	12	-	8	1	
Alaska-----	-	1	1	-	64	-	-	-	-	-	-	-	
Hawaii-----	-	-	-	-	1	-	-	-	-	-	-	-	
Puerto Rico-----	-	-	-	-	20	-	1	5	14	-	1	6	



The chart shows the number of deaths reported for 117 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 for comparison. For each region the adjusted average was computed as follows: From the total deaths reported each week for the years 1956-1960, 3 central figures were selected by eliminating the highest and lowest figure reported for that week. A 5-week moving average of the arithmetic mean of the 3 central figures was then computed with adjustment to allow for population growth in each region. The average value of the regional increases was 2 percent which was incorporated in the adjusted average shown in the chart.

Table 4 shows the number of death certificates re-

ceived during the week indicated for deaths that occurred in selected cities. 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 used.

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 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	13th week ended April 1, 1961	12th week ended March 25, 1961	Adjusted average, 13th week 1956-60	Percent change, adjusted average to current week	Cumulative, first 13 weeks		
					1961	1960	Percent change
TOTAL, 117 REPORTING CITIES-----	11,319	11,746	11,759	-3.7	157,175	168,679	-6.8
New England----- (14 cities)	679	695	712	-4.6	9,615	10,752	-10.6
Middle Atlantic----- (20 cities)	3,478	3,500	3,284	+5.9	45,207	45,758	-1.2
East North Central----- (21 cities)	2,235	2,425	2,468	-9.4	32,763	36,178	-9.4
West North Central----- (9 cities)	709	771	826	-14.2	10,513	11,812	-11.0
South Atlantic----- (11 cities)	959	982	1,002	-4.3	13,571	14,927	-9.1
East South Central----- (8 cities)	547*	545	538	+1.7	7,332	7,778	-5.7
West South Central----- (13 cities)	976	1,000	1,048	-6.9	13,651	15,114	-9.7
Mountain----- (8 cities)	379	377	371	+2.2	5,035	5,158	-2.4
Pacific----- (13 cities)	1,357*	1,451	1,510	-10.1	19,488	21,202	-8.1

\*Includes estimate for missing reports.

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Table 4. DEATHS IN SELECTED CITIES

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

Area	13th week ended April 1, 1961	12th week ended March 25, 1961	Cumulative, first 13 weeks		Area	13th week ended April 1, 1961	12th week ended March 25, 1961	Cumulative, first 13 weeks	
			1961	1960				1961	1960
<b>NEW ENGLAND:</b>					<b>WEST NORTH CENTRAL—Con.:</b>				
Boston, Mass.-----	221	240	3,301	3,762	St. Louis, Mo.-----	239	233	3,190	3,776
Bridgeport, Conn.-----	33	24	512	608	St. Paul, Minn.-----	43	70	881	1,040
Cambridge, Mass.-----	24	32	388	462	Wichita, Kans.-----	33	37	591	643
Fall River, Mass.-----	26	33	361	442	<b>SOUTH ATLANTIC:</b>				
Hartford, Conn.-----	34	49	610	689	Atlanta, Ga.-----	122	90	1,594	1,718
Lowell, Mass.-----	28	25	338	345	Baltimore, Md.-----	255	270	3,391	3,804
Lynn, Mass.-----	33	23	311	371	Charlotte, N.C.-----	31	48	497	645
New Bedford, Mass.-----	25	31	373	357	Jacksonville, Fla.-----	60	51	813	958
New Haven, Conn.-----	47	43	608	647	Miami, Fla.-----	69	75	1,020	1,076
Providence, R.I.-----	67	60	827	931	Norfolk, Va.-----	38	51	648	656
Somerville, Mass.-----	9	16	174	223	Richmond, Va.-----	62	74	1,093	1,181
Springfield, Mass.-----	47	39	655	709	Savannah, Ga.-----	34	25	473	562
Waterbury, Conn.-----	32	23	383	399	St. Petersburg, Fla.-----	(78)	(79)	(1,056)	(1,119)
Worcester, Mass.-----	53	57	774	807	Tampa, Fla.-----	54	77	938	957
<b>MIDDLE ATLANTIC:</b>					<b>EAST SOUTH CENTRAL:</b>				
Albany, N.Y.-----	57	52	650	612	Birmingham, Ala.-----	89*	75	1,199	1,273
Allentown, Pa.-----	29	23	449	486	Chattanooga, Tenn.-----	36	46	678	721
Buffalo, N.Y.-----	158	155	1,949	2,096	Knoxville, Tenn.-----	18	29	388	447
Camden, N.J.-----	54	41	562	642	Louisville, Ky.-----	138	162	1,606	1,674
Elizabeth, N.J.-----	37	34	403	425	Memphis, Tenn.-----	128	109	1,635	1,647
Erie, Pa.-----	50	37	530	521	Mobile, Ala.-----	39	40	559	619
Jersey City, N.J.-----	51	75	949	1,021	Montgomery, Ala.-----	29	24	445	526
Newark, N.J.-----	86	108	1,398	1,411	Nashville, Tenn.-----	70	60	822	871
New York City, N.Y.-----	1,847	1,896	23,290	22,975	<b>WEST SOUTH CENTRAL:</b>				
Paterson, N.J.-----	34	34	516	569	Austin, Tex.-----	36	27	458	553
Philadelphia, Pa.-----	544	520	7,130	7,116	Baton Rouge, La.-----	19	29	380	455
Pittsburgh, Pa.-----	202	172	2,616	2,833	Corpus Christi, Tex.-----	18	40	333	376
Reading, Pa.-----	14	20	288	338	Dallas, Tex.-----	134	123	1,693	1,799
Rochester, N.Y.-----	107	107	1,378	1,475	El Paso, Tex.-----	40	43	510	578
Schenectady, N.Y.-----	27	18	329	339	Fort Worth, Tex.-----	60	69	914	962
Scranton, Pa.-----	28	35	489	541	Houston, Tex.-----	206	140	2,388	2,528
Syracuse, N.Y.-----	57	64	814	911	Little Rock, Ark.-----	54	51	750	888
Trenton, N.J.-----	33	52	622	581	New Orleans, La.-----	141	145	2,282	2,726
Utica, N.Y.-----	34	30	404	422	Oklahoma City, Okla.-----	73	82	1,062	1,088
Yonkers, N.Y.-----	29	27	441	444	San Antonio, Tex.-----	96	102	1,392	1,545
<b>EAST NORTH CENTRAL:</b>					<b>MOUNTAIN:</b>				
Akron, Ohio-----	58	62	763	813	Albuquerque, N. Mex.-----	35	32	428	439
Canton, Ohio-----	39	21	415	514	Colorado Springs, Colo.-----	14	18	221	251
Chicago, Ill.-----	600	720	9,826	11,109	Denver, Colo.-----	112	103	1,572	1,727
Cincinnati, Ohio-----	143	162	2,072	2,368	Ogden, Utah-----	14	17	203	243
Cleveland, Ohio-----	175	216	2,800	3,169	Phoenix, Ariz.-----	85	89	1,163	1,090
Columbus, Ohio-----	102	116	1,483	1,747	Pueblo, Colo.-----	16	18	215	210
Dayton, Ohio-----	79	73	1,118	1,024	Salt Lake City, Utah-----	53	52	668	683
Detroit, Mich.-----	332	341	4,506	4,936	Tucson, Ariz.-----	50	48	565	515
Evansville, Ind.-----	30	44	479	541	<b>PACIFIC:</b>				
Flint, Mich.-----	50	37	570	547	Berkeley, Calif.-----	19	20	228	252
Fort Wayne, Ind.-----	46	37	533	530	Fresno, Calif.-----	(49)	(32)	(586)	(704)
Gary, Ind.-----	30	24	412	426	Glendale, Calif.-----	(26)	(31)	(429)	(573)
Grand Rapids, Mich.-----	40	45	600	570	Honolulu, Hawaii-----	35	42	528	574
Indianapolis, Ind.-----	145	160	1,977	2,100	Long Beach, Calif.-----	49	55	791	777
Madison, Wis.-----	38	28	417	430	Los Angeles, Calif.-----	476	505	7,063	7,835
Milwaukee, Wis.-----	91	108	1,598	1,797	Oakland, Calif.-----	96	92	1,300	1,375
Peoria, Ill.-----	28	30	385	426	Pasadena, Calif.-----	26	37	432	506
Rockford, Ill.-----	30	29	376	398	Portland, Oreg.-----	92	118	1,348	1,511
South Bend, Ind.-----	15	29	369	430	Sacramento, Calif.-----	62	49	839	860
Toledo, Ohio-----	106	92	1,323	1,479	San Diego, Calif.-----	86	99	1,217	1,349
Youngstown, Ohio-----	58	51	741	824	San Francisco, Calif.-----	187*	221	2,815	2,909
<b>WEST NORTH CENTRAL:</b>					<b>San Jose, Calif.-----</b>				
Des Moines, Iowa-----	44	57	689	792	(39)	(33)	(462)	(395)	
Duluth, Minn.-----	23	22	344	371	Seattle, Wash.-----	143	130	1,781	1,983
Kansas City, Kans.-----	38	26	505	506	Spokane, Wash.-----	50	34	603	642
Kansas City, Mo.-----	100	129	1,714	1,866	Tacoma, Wash.-----	36	49	543	629
Lincoln, Nebr.-----	(28)	(31)	(392)	(359)	<b>San Juan, P. R.-----</b>				
Minneapolis, Minn.-----	107	120	1,655	1,728	(---)	(31)	(406)	(470)	
Omaha, Nebr.-----	82	77	944	1,090					

\*Estimate - based on average percentage of divisional total.

() Figures shown in parenthesis are from cities which have been reporting less than five years and hence are not included in Table 3.

commercial source. Oyster-related cases in Troy were derived from the same commercial source.

Oysters consumed by cases in the Mobile area had been obtained from a downtown restaurant and other local distributors. However, they were traced back through fishermen who admitted tonging oysters at the mouth of the Pascagoula River.

Hepatitis cases were investigated also in other Gulf Coast cities including Biloxi, Gulfport, Panama City, Pensacola, Apalachicola, and Port St. Joe. Few cases had occurred in these cities and they were not oyster related; most were under 20 years of age.

Although hepatitis cases were associated with oysters from the river mouth and not the Pascagoula Reef located west of the river, multiple water samples taken over the reef on February 10 had coliform counts far in excess of minimum shellfish certification standards. On this basis, the entire Pascagoula oyster fishing area was closed on February 18, 1961.

No hepatitis cases ascribed to contaminated oysters have occurred since March 8.

This report is a summary of an investigation carried out by the State Health Departments of Alabama and Mississippi and the Communicable Disease Center and Shellfish Sanitation Section of the U. S. Public Health Service.

### INTERNATIONAL NOTES

**Smallpox** — The WHO Weekly Epidemiological Record, No. 13, March 30, 1961, reports the details of an imported case of smallpox in the Ansbach, Bavarian region, West Germany. The case arrived in Frankfurt am Main March 11, on Pan-American World Airways Flight #1 from Karachi, Pakistan en route to New York. The case became ill on March 19, was hospitalized on March 25 and confirmed as smallpox on March 29. No secondary cases have been reported.

### Enterovirus Surveillance

#### Reports on Isolations from State Laboratories on 1961 Specimens

State	Type	Isolates	Dates of Specimens	Reported by
Florida	Polio I	1	1-24-61	N. J. Schneider
Hawaii	Polio I	1	2-16-61	K. S. Wilcox
Idaho	Polio I	4*	January	A. W. Klotz
Maryland	Non-Polio Enterovirus	2	2-27-61	C. A. Perry
Texas	Polio III	1	February	J. V. Irons

\*All from one family — only one having clinical symptoms.

### SOURCE AND NATURE OF MORBIDITY DATA

These provisional data are based on reports to the Public Health Service from the health departments of each State and Puerto Rico. They give the total number of cases of certain communicable diseases reported during the week usually ended the preceding Saturday. Total figures for the United States and the Pacific Division include data for the States of Alaska and Hawaii. 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 are reported by a State (cholera, dengue, plague, louse-borne relapsing fever, smallpox, louse-borne epidemic typhus, and yellow fever) this is noted below table 1.

U. S. DEPARTMENT OF  
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PUBLIC HEALTH SERVICE  
Communicable Disease Center  
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Official Business

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U. S. DEPARTMENT OF H.E.W.  
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