

# Morbidity and Mortality

Weekly Report

PUBLIC HEALTH SERVICE

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

Prepared by the COMMUNICABLE DISEASE CENTER MELrose 4-5131

For release March 31, 1961

Atlanta 22, Georgia

Vol. 10, No. 12

## Provisional Information on Selected Notifiable Diseases in the United States and on Deaths in Selected Cities for Week Ended March 25, 1961

**Influenza** - During the past month evidence has accumulated which indicates activity of the A<sub>2</sub> influenza virus in New York City. Dr. Harold T. Fuerst, Director, Bureau of Preventable Diseases, New York City, reports that weekly pneumonia and influenza deaths exceeded confidence limits in early March and have remained high. With a ten year average ranging between 55 and 65 pneumonia and influenza deaths per week, the following totals have been reported during 1961.

### DATES AND NUMBER OF DEATHS

1/6	1/13	1/20	1/27	2/3	2/10	2/17	2/24	3/3	3/10	3/17	3/24
76	79	65	77	68	99	84	96	90	114	86	115

In the meantime, Dr. Morris Schaeffer, Director of Laboratories, New York City Department of Health, reports that four isolations of influenza A<sub>2</sub> virus have been made from individuals with clinical disease. One of these, a 34-year-old female, died of a fulminant pneumonia. Another, an 8-year-old female, died suddenly and was found at autopsy to have bilateral partial pulmonary atelectasis and edema and congestion of the brain. Virus was isolated from the brain of the latter case. Four-fold or greater rises in complement fixation titers to influenza A were observed from acute to convalescent sera of 7 patients with clinical influenza-like disease. In addition, sera from the 60-year age group tested during the past six months indicate that

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)	12th Week			Cumulative					Approximate seasonal low point
	Ended March 25, 1961	Ended March 26, 1960	Median 1956-60	First 12 weeks		Since seasonal low week			
				1961	1960	Median 1956-60	1960-61	1959-60	
* Weekly incidence low or sporadic									
- Data not available									
- Quantity zero									
Anthrax-----062	-	1	*	1	6	*	*	*	*
Botulism-----049.1	-	-	*	4	3	*	*	*	*
Brucellosis (undulant fever)-----044	13	10	21	118	178	173	*	*	*
Diphtheria-----055	6	6	12	194	214	249	774	745	952
Encephalitis, infectious-----082	34	38	24	302	313	271	302	313	271
Hepatitis, infectious, and serum-----092,N998.5 pt.	1,914	763	479	21,281	8,953	6,117	36,488	16,782	11,465
Malaria-----110-117	-	1	*	8	12	*	*	*	*
Measles-----085	15,511	16,500	19,841	136,637	131,305	161,956	172,847	167,048	190,812
Meningitis, aseptic-----340 pt.	13	30	---	261	341	---	261	341	---
Meningococcal infections-----057	60	54	68	602	662	691	1,258	1,341	1,473
Polio-myelitis-----080	8	19	19	103	207	263	3,167	8,481	8,481
Paralytic-----080.0,080.1	5	14	14	61	149	187	2,169	5,650	5,650
Nonparalytic-----080.2	3	3	3	24	33	44	646	2,150	2,150
Unspecified-----080.3	-	2	2	18	25	32	352	681	681
Rabies in man-----098.2	3	3	*	14	25	*	*	*	*
Streptococcal sore throat, including scarlet fever-----094	-	-	*	2	-	*	*	*	*
Typhoid fever-----050,051	9,823	8,331	---	115,822	104,453	---	213,474	---	---
Typhus fever-----040	6	12	12	101	119	170	804	846	1,182
Typhus fever, endemic-----101	1	-	*	**8	5	*	*	*	*
Rabies in animals-----	95	108	107	**778	1,021	1,127	1,354	2,001	2,001

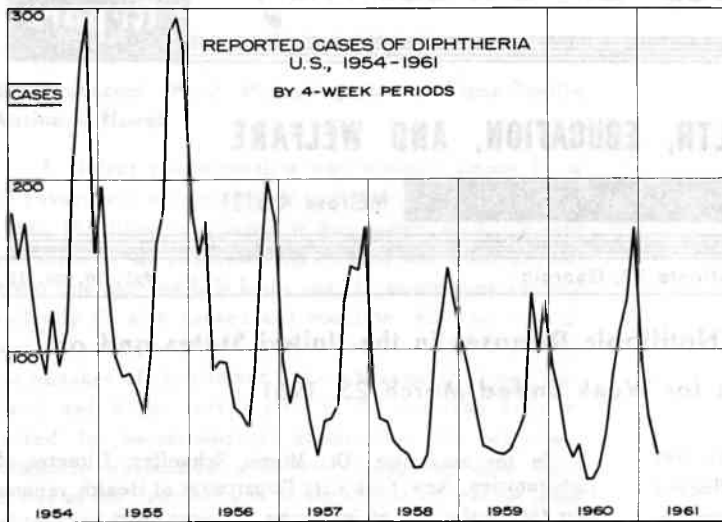
Figures for current week exclude missing report from Hawaii.

\*\*In the report for the week ending March 18, the 1961 cumulative totals for Typhus and Rabies in Animals should be corrected, respectively, from 5 - 855 to 7 - 683.

COMMUNICABLE DISEASE CENTER

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The graph shows reported diphtheria cases in the United States by four-week periods since 1954 and indicates a lack of any significant downward trend in disease incidence during the past 3 years. The annual seasonal pattern with a peak in October, November, and December is illustrated.

between February 1 and March 1 the percentage of these individuals with  $A_2$  antibodies increased from about 58 to 80 percent.

There has been no evidence of influenza activity elsewhere in the continental United States and deaths due to influenza and pneumonia are within limits of seasonal expectancy.

**Diphtheria** — See graph above.

**Hepatitis** — A sustained high incidence continues. The 1,914 cases reported represent little change from the previous week.

#### Food-borne Outbreaks Reported January 1 through March 29, 1961

A total of 24 reports of food-borne disease have been received since January 1. A line listing of them is included on page 8. Eight have been described in more detail in previous weekly reports. Twelve occurred during 1961, while the others are delayed episodes dating back as far as May 1960.

Staphylococcal enterotoxin was responsible for six outbreaks. Trichinosis was reported four times and involved a total of 34 persons. Raw or inadequately cooked pork, in two instances from a commercial source, was responsible.

Two outbreaks of shigellosis are included. Two outbreaks of infectious hepatitis, both traced to the consumption of raw oysters taken from a single heavily contaminated source, were reported. Botulism acquired by eating home canned chili was responsible for four cases and two deaths. *S. heidelberg* growing on roast beef caused 125 cases of gastroenteritis in one outbreak.

Although the metals copper and zinc were each listed once as the cause of chemical poisoning, the concentration of copper (10.5 ppm) is much lower than amounts

previously associated with copper poisoning, and the incubation period for the illnesses ascribed to zinc is longer than expected (6-10 hours). Therefore, the etiological relationships of these two metals must be questioned until final studies are completed.

In six outbreaks, all with similar incubation periods, no etiological agent was recovered. This was not always due to a failure to submit specimens, but either the lack of isolation of a pathogen or the isolation of a pathogen inconsistent with the clinical findings and incubation period. In one outbreak a paracolon organism was the only agent recovered while in another, several foods contained *Staphylococcus aureus* but the incubation period averaged 11 hours which raised doubts that it was caused by staphylococcus enterotoxin. There is possibly a need for more emphasis on anaerobic culturing of specimens from food-borne disease outbreaks.

#### QUARANTINE MEASURES

##### Immunization Information for International Travel-1960 Edition

Public Health Service Publication No. 383: Section 5, Page 53, France — Smallpox, Delete previous information and insert: Smallpox vaccination required for arrival from Madrid International Airport.

Health Information for Travel in Asia including Japan, Indonesia, and the Philippines and Australia and New Zealand — Public Health Service Publication No. 748C.

Page 2, under Malaria — Delete all information and insert: Travelers who will go to Asia and certain Pacific Islands should consult their physicians about the need to take antimalarial drugs for

(Continued on page 8)

## Morbidity and Mortality Weekly Report

**Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED MARCH 26, 1960 AND MARCH 25, 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. 1961	Brucel- losis (undul- ant fever) 044 1961
	Total (Includes cases not specified by type)				Paralytic 080.0,080.1				Nonparalytic			
	12th Week		Cumulative, first 12 weeks		12th Week		Cumulative, first 12 weeks		080.2			
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960		
UNITED STATES-----	8	19	103	207	5	14	61	149	3	3	13	13
NEW ENGLAND-----	1	-	3	6	1	-	3	6	-	-	1	1
Maine-----	-	-	-	2	-	-	-	2	-	-	-	-
New Hampshire-----	-	-	-	-	-	-	-	-	-	-	-	-
Vermont-----	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts-----	1	-	2	4	1	-	2	4	-	-	1	-
Rhode Island-----	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut-----	-	-	1	-	-	-	1	-	-	-	-	1
MIDDLE ATLANTIC-----	-	2	9	32	-	1	8	22	-	-	-	-
New York-----	-	1	3	28	-	-	2	18	-	-	-	-
New Jersey-----	-	-	2	3	-	-	2	3	-	-	-	-
Pennsylvania-----	-	1	4	1	-	1	4	1	-	-	-	-
EAST NORTH CENTRAL-----	1	2	15	25	1	2	9	6	-	-	4	4
Ohio-----	-	1	7	14	-	1	3	3	-	-	-	1
Indiana-----	-	-	1	-	-	-	1	-	-	-	1	-
Illinois-----	1	-	3	3	1	-	3	2	-	-	1	2
Michigan-----	-	1	1	6	-	1	1	1	-	-	1	1
Wisconsin-----	-	-	3	2	-	-	1	-	-	-	1	-
WEST NORTH CENTRAL-----	-	3	2	13	-	-	2	7	-	2	-	5
Minnesota-----	-	2	1	8	-	-	1	6	-	2	-	-
Iowa-----	-	1	-	3	-	-	-	1	-	-	-	3
Missouri-----	-	-	-	1	-	-	-	-	-	-	-	-
North Dakota-----	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota-----	-	-	-	1	-	-	-	-	-	-	-	1
Nebraska-----	-	-	1	-	-	-	1	-	-	-	-	1
Kansas-----	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC-----	1	3	10	39	-	3	6	32	1	-	-	1
Delaware-----	1	-	2	-	-	-	1	-	1	-	-	-
Maryland-----	-	-	-	1	-	-	-	-	-	-	-	-
District of Columbia-----	-	-	-	-	-	-	-	-	-	-	-	-
Virginia-----	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia-----	-	-	2	2	-	-	1	2	-	-	-	-
North Carolina-----	-	-	3	12	-	-	2	12	-	-	-	-
South Carolina-----	-	-	-	2	-	-	-	2	-	-	-	-
Georgia-----	-	1	1	2	-	1	1	2	-	-	-	1
Florida-----	-	2	2	20	-	2	1	14	-	-	-	-
EAST SOUTH CENTRAL-----	1	1	13	8	1	1	2	7	-	-	1	1
Kentucky-----	1	1	13	6	1	1	2	5	-	-	1	-
Tennessee-----	-	-	-	-	-	-	-	-	-	-	-	-
Alabama-----	-	-	-	1	-	-	-	1	-	-	-	-
Mississippi-----	-	-	-	1	-	-	-	1	-	-	-	1
WEST SOUTH CENTRAL-----	2	1	13	10	-	1	5	8	2	-	-	1
Arkansas-----	-	-	1	-	-	-	-	-	-	-	-	-
Louisiana-----	-	1	3	5	-	1	2	4	-	-	-	1
Oklahoma-----	-	-	-	1	-	-	-	1	-	-	-	-
Texas-----	2	-	9	4	-	-	3	3	2	-	-	-
MOUNTAIN-----	-	-	15	11	-	-	9	7	-	-	1	-
Montana-----	-	-	1	4	-	-	1	3	-	-	-	-
Idaho-----	-	-	3	4	-	-	1	1	-	-	-	-
Wyoming-----	-	-	-	-	-	-	-	-	-	-	-	-
Colorado-----	-	-	3	-	-	-	3	-	-	-	1	-
New Mexico-----	-	-	1	-	-	-	-	-	-	-	-	-
Arizona-----	-	-	2	2	-	-	1	2	-	-	-	-
Utah-----	-	-	5	1	-	-	3	1	-	-	-	-
Nevada-----	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC-----	2	7	23	63	2	6	17	54	-	1	6	-
Washington-----	-	2	-	6	-	2	-	6	-	-	1	-
Oregon-----	-	-	2	10	-	-	1	6	-	-	-	-
California-----	2	5	20	46	2	4	15	41	-	1	5	-
Alaska-----	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii-----	-	-	1	1	-	-	1	1	-	-	-	-
Puerto Rico-----	-	3	1	25	-	3	1	25	-	-	-	-

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Table 2. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES, EACH DIVISION AND STATE, AND PUERTO RICO, FOR WEEKS ENDED MARCH 26, 1960 AND MARCH 25, 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	
	12th Week		Cumulative, first 12 weeks		082		12th Week		Cumulative, first 12 weeks		085	
	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960	1961	1960
UNITED STATES-----	6	6	194	214	34	38	1,914	763	21,281	8,953	15,511	16,500
NEW ENGLAND-----	-	1	2	6	1	-	38	18	630	298	1,279	1,413
Maine-----	-	1	-	2	-	-	-	1	31	21	26	97
New Hampshire-----	-	-	-	-	-	-	2	-	45	5	50	10
Vermont-----	-	-	-	-	-	-	4	-	96	5	71	90
Massachusetts-----	-	-	2	3	1	-	21	11	204	154	602	697
Rhode Island-----	-	-	-	1	-	-	4	3	86	56	399	38
Connecticut-----	-	-	-	-	-	-	7	3	168	57	131	481
MIDDLE ATLANTIC-----	-	1	4	7	13	10	326	63	3,237	844	2,977	2,415
New York-----	-	-	3	1	7	7	125	37	1,297	437	1,403	2,027
New Jersey-----	-	1	-	1	6	1	108	3	777	56	629	270
Pennsylvania-----	-	-	1	5	-	2	93	23	1,163	351	945	118
EAST NORTH CENTRAL-----	-	-	5	19	2	5	345	183	4,077	1,744	4,795	4,510
Ohio-----	-	-	-	12	-	-	109	62	1,608	489	1,186	603
Indiana-----	-	-	-	3	-	1	80	29	665	262	167	413
Illinois-----	-	-	4	2	2	1	46	28	661	362	523	1,139
Michigan-----	-	-	1	2	-	1	105	56	1,027	514	1,258	1,115
Wisconsin-----	-	-	-	-	-	2	5	8	116	117	1,661	1,240
WEST NORTH CENTRAL-----	1	-	12	12	4	1	223	56	2,137	793	425	352
Minnesota-----	-	-	6	3	1	-	58	7	523	78	21	205
Iowa-----	-	-	1	2	-	-	62	4	508	155	125	48
Missouri-----	-	-	-	1	1	-	64	36	518	284	164	18
North Dakota-----	-	-	-	1	-	-	-	2	41	76	107	63
South Dakota-----	1	-	4	4	-	-	-	1	94	88	-	-
Nebraska-----	-	-	1	-	-	-	13	4	208	58	8	18
Kansas-----	-	-	-	1	2	1	26	2	245	54	NN	NN
SOUTH ATLANTIC-----	2	1	36	51	2	1	225	93	2,423	1,017	1,697	770
Delaware-----	-	-	-	-	-	-	8	5	60	50	69	8
Maryland-----	-	-	1	-	-	-	28	11	231	105	120	131
District of Columbia-----	-	-	-	-	-	-	-	1	22	8	10	58
Virginia-----	-	-	6	8	-	-	22	19	294	255	290	184
West Virginia-----	-	-	1	1	-	-	54	24	532	219	280	102
North Carolina-----	1	-	5	1	-	-	55	6	576	52	354	71
South Carolina-----	-	-	-	12	-	-	11	-	170	25	85	74
Georgia-----	1	-	7	8	-	-	9	12	249	97	6	3
Florida-----	-	1	16	21	2	1	38	15	289	206	483	139
EAST SOUTH CENTRAL-----	-	1	5	21	-	4	301	104	3,679	1,433	1,130	1,356
Kentucky-----	-	-	2	-	-	-	68	23	1,135	611	304	335
Tennessee-----	-	-	2	3	-	1	117	42	1,525	445	562	878
Alabama-----	-	1	1	12	-	-	55	19	582	282	226	35
Mississippi-----	-	-	-	6	-	3	61	20	437	95	38	108
WEST SOUTH CENTRAL-----	2	1	125	72	5	3	152	62	1,449	636	699	2,958
Arkansas-----	1	-	1	1	-	-	24	2	295	29	134	129
Louisiana-----	-	1	12	14	-	-	18	4	107	27	-	25
Oklahoma-----	-	-	2	5	-	-	4	12	104	109	1	124
Texas-----	1	-	110	52	5	3	106	44	943	471	564	2,680
MOUNTAIN-----	1	1	5	25	-	1	96	56	1,412	812	749	763
Montana-----	-	1	2	1	-	-	4	2	148	38	63	88
Idaho-----	-	-	-	11	-	-	2	13	78	122	77	163
Wyoming-----	-	-	-	5	-	-	11	-	49	5	5	1
Colorado-----	1	-	3	2	-	-	27	14	463	225	133	126
New Mexico-----	-	-	-	2	-	-	8	13	221	139	NN	-
Arizona-----	-	-	-	1	-	-	24	9	151	191	442	157
Utah-----	-	-	-	3	-	1	19	5	261	76	25	228
Nevada-----	-	-	-	-	-	-	1	-	41	16	4	-
PACIFIC-----	-	-	-	1	7	13	208	128	2,237	1,376	1,760	1,963
Washington-----	-	-	-	-	1	-	33	14	278	162	250	639
Oregon-----	-	-	-	-	-	-	57	14	418	261	188	235
California-----	-	-	-	-	6	13	111	100	1,458	848	1,308	793
Alaska-----	-	-	-	1	-	-	7	-	65	73	14	6
Hawaii-----	-	-	-	-	-	-	-	-	18	32	-	290
Puerto Rico-----	2	4	23	56	-	-	19	16	129	255	24	78

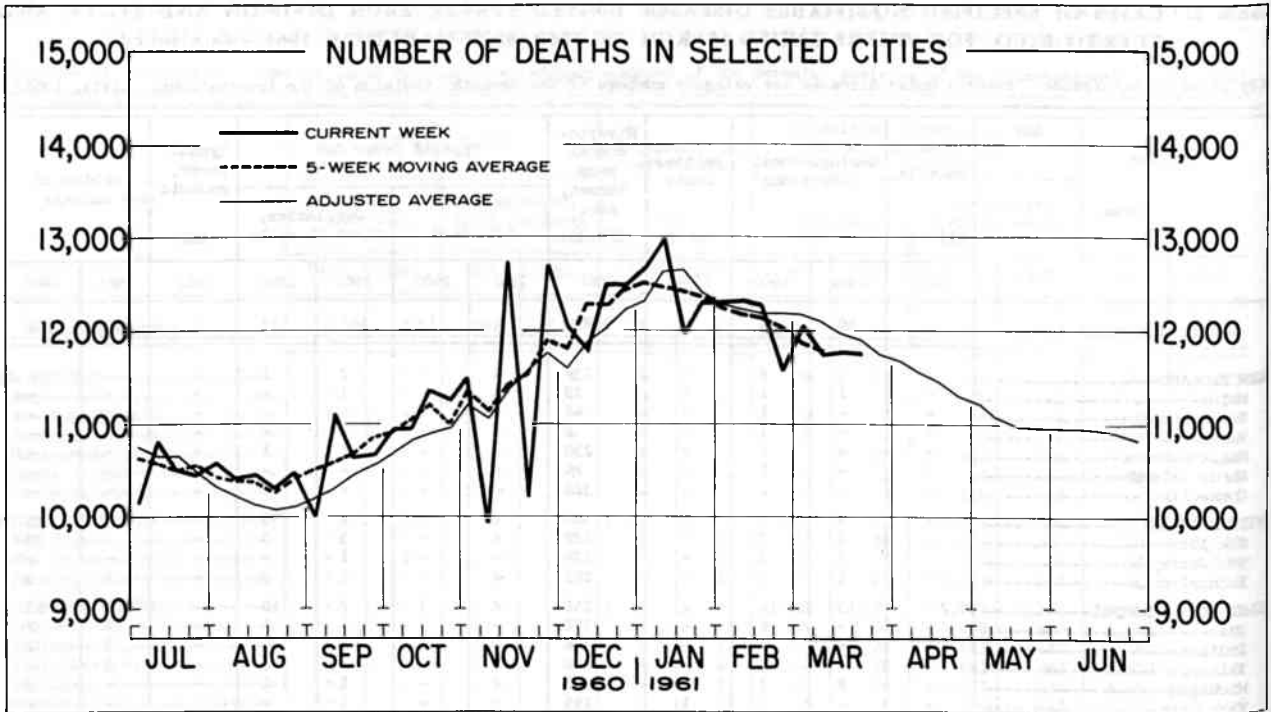
NN-Not Notifiable

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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	12th Week		Cumulative, first 12 weeks		101	1961	1960
	1961	1961	1960	1961	1961	1961	1960	1961	1960	1961	1961	1960
UNITED STATES-----	-	60	54	3	9,823	6	12	101	119	1	95	108
NEW ENGLAND-----	-	5	8	-	737	-	-	2	1	-	-	-
Maine-----	-	1	1	-	33	-	-	1	-	-	-	-
New Hampshire-----	-	-	1	-	44	-	-	-	-	-	-	-
Vermont-----	-	-	1	-	8	-	-	-	-	-	-	-
Massachusetts-----	-	4	2	-	250	-	-	1	1	-	-	-
Rhode Island-----	-	-	1	-	74	-	-	-	-	-	-	-
Connecticut-----	-	-	2	-	328	-	-	-	-	-	-	-
MIDDLE ATLANTIC-----	-	9	9	-	1,380	-	-	8	5	-	1	23
New York-----	-	3	3	-	822	-	-	3	3	-	-	20
New Jersey-----	-	1	2	-	276	-	-	1	-	-	-	-
Pennsylvania-----	-	5	4	-	282	-	-	4	2	-	1	3
EAST NORTH CENTRAL-----	-	13	14	2	1,246	-	1	7	10	-	6	12
Ohio-----	-	-	6	-	322	-	-	4	1	-	2	7
Indiana-----	-	-	-	-	226	-	1	1	2	-	2	2
Illinois-----	-	5	5	-	206	-	-	-	3	-	2	-
Michigan-----	-	8	2	1	297	-	-	1	4	-	-	3
Wisconsin-----	-	-	1	1	195	-	-	1	-	-	-	-
WEST NORTH CENTRAL-----	-	2	2	-	284	1	1	9	8	-	28	20
Minnesota-----	-	1	-	-	22	-	-	3	-	-	4	4
Iowa-----	-	-	-	-	59	-	-	1	-	-	11	6
Missouri-----	-	1	1	-	10	1	-	4	7	-	6	6
North Dakota-----	-	-	-	-	126	-	-	-	-	-	1	1
South Dakota-----	-	-	-	-	-	-	1	-	1	-	5	-
Nebraska-----	-	-	-	-	-	-	-	-	-	-	1	-
Kansas-----	-	-	1	-	67	-	-	1	-	-	-	3
SOUTH ATLANTIC-----	-	7	9	-	844	1	-	17	19	-	18	4
Delaware-----	-	-	-	-	3	-	-	-	-	-	-	-
Maryland-----	-	-	-	-	44	-	-	-	-	-	-	-
District of Columbia-----	-	1	-	-	2	-	-	1	1	-	-	-
Virginia-----	-	1	-	-	231	-	-	-	3	-	15	2
West Virginia-----	-	1	2	-	293	1	-	3	1	-	3	1
North Carolina-----	-	1	3	-	45	-	-	2	7	-	-	-
South Carolina-----	-	-	-	-	27	-	-	1	5	-	-	1
Georgia-----	-	1	1	-	1	-	-	9	-	-	-	-
Florida-----	-	2	3	-	198	-	-	1	2	-	-	-
EAST SOUTH CENTRAL-----	-	8	1	-	1,552	-	1	17	27	1	11	15
Kentucky-----	-	4	-	-	241	-	-	4	10	-	1	1
Tennessee-----	-	2	-	-	1,250	-	1	11	15	-	9	14
Alabama-----	-	2	1	-	23	-	-	2	2	1	1	-
Mississippi-----	-	-	-	-	38	-	-	-	-	-	-	-
WEST SOUTH CENTRAL-----	-	8	9	-	1,080	2	6	17	29	-	21	28
Arkansas-----	-	1	2	-	11	-	5	2	12	-	5	16
Louisiana-----	-	6	4	-	14	-	-	2	9	-	1	-
Oklahoma-----	-	1	1	-	13	-	1	2	2	-	-	-
Texas-----	-	-	2	-	1,042	2	-	11	6	-	15	12
MOUNTAIN-----	-	1	-	1	1,704	-	-	11	8	-	-	1
Montana-----	-	-	-	-	63	-	-	1	4	-	-	-
Idaho-----	-	-	-	-	77	-	-	-	-	-	-	-
Wyoming-----	-	-	-	-	40	-	-	-	-	-	-	-
Colorado-----	-	-	-	-	654	-	-	5	-	-	-	1
New Mexico-----	-	1	-	-	472	-	-	1	4	-	-	-
Arizona-----	-	-	-	-	207	-	-	2	-	-	-	-
Utah-----	-	-	-	1	183	-	-	1	-	-	-	-
Nevada-----	-	-	-	-	8	-	-	1	-	-	-	-
PACIFIC-----	-	7	2	-	996	2	3	13	12	-	10	5
Washington-----	-	1	-	-	432	-	-	1	-	-	-	-
Oregon-----	-	-	-	-	89	-	-	-	-	-	-	-
California-----	-	6	2	-	434	2	3	12	12	-	9	5
Alaska-----	-	-	-	-	41	-	-	-	-	-	1	-
Hawaii-----	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico-----	-	-	-	-	-	-	-	5	13	-	-	-



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	12th week ended March 25, 1961	11th week ended March 18, 1961	Adjusted average, 12th week 1956-60	Percent change, adjusted average to current week	Cumulative, first 12 weeks		
					1961	1960	Percent change
TOTAL, 117 REPORTING CITIES-----	11,753	11,769	11,906	-1.3	145,863	156,912	-7.0
New England----- (14 cities)	695	718	721	-3.6	8,936	9,991	-10.6
Middle Atlantic----- (20 cities)	3,504*	3,538	3,311	+5.8	41,733	42,507	-1.8
East North Central----- (21 cities)	2,425	2,481	2,490	-2.6	30,528	33,677	-9.4
West North Central----- (9 cities)	771	738	839	-8.1	9,804	10,998	-10.9
South Atlantic----- (11 cities)	982	950	1,014	-3.2	12,612	13,928	-9.4
East South Central----- (8 cities)	548*	508	551	-0.5	6,788	7,208	-5.8
West South Central----- (13 cities)	1,000	996	1,075	-7.0	12,675	14,122	-10.2
Mountain----- (8 cities)	377	385	371	+1.6	4,656	4,785	-2.7
Pacific----- (13 cities)	1,451	1,455	1,534	-5.4	18,131	19,696	-7.9

\*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	12th week ended March 25, 1961	11th week ended March 18, 1961	Cumulative, first 12 weeks		Area	12th week ended March 25, 1961	11th week ended March 18, 1961	Cumulative, first 12 weeks	
			1961	1960				1961	1960
<b>NEW ENGLAND:</b>					<b>WEST NORTH CENTRAL—Con.:</b>				
Boston, Mass.-----	240	217	3,080	3,474	St. Louis, Mo.-----	233	232	2,951	3,490
Bridgeport, Conn.-----	24	43	479	561	St. Paul, Minn.-----	70	78	838	976
Cambridge, Mass.-----	32	30	364	423	Wichita, Kans.-----	37	38	558	596
Fall River, Mass.-----	33	27	335	409	<b>SOUTH ATLANTIC:</b>				
Hartford, Conn.-----	49	50	576	649	Atlanta, Ga.-----	90	107	1,472	1,616
Lowell, Mass.-----	25	31	310	323	Baltimore, Md.-----	270	226	3,136	3,567
Lynn, Mass.-----	23	26	278	352	Charlotte, N.C.-----	48	39	466	596
New Bedford, Mass.-----	31	28	348	338	Jacksonville, Fla.-----	51	77	753	895
New Haven, Conn.-----	43	36	561	597	Miami, Fla.-----	75	68	951	998
Providence, R.I.-----	60	69	760	871	Norfolk, Va.-----	51	42	610	620
Springfield, Mass.-----	16	13	165	206	Richmond, Va.-----	74	76	1,031	1,092
Somerville, Mass.-----	39	65	608	665	Savannah, Ga.-----	25	29	439	506
Waterbury, Conn.-----	23	28	351	373	St. Petersburg, Fla.-----	(79)	(81)	(978)	(1,028)
Worcester, Mass.-----	57	55	721	750	Tampa, Fla.-----	77	70	884	896
<b>MIDDLE ATLANTIC:</b>					Washington, D.C.-----	187	181	2,382	2,608
Albany, N.Y.-----	49*	41	590	563	Wilmington, Del.-----	34	35	488	534
Allentown, Pa.-----	23	31	420	449	<b>EAST SOUTH CENTRAL:</b>				
Buffalo, N.Y.-----	155	141	1,791	1,952	Birmingham, Ala.-----	75	90	1,110	1,184
Camden, N.J.-----	41	51	508	597	Chattanooga, Tenn.-----	46	53	642	665
Elizabeth, N.J.-----	34	27	366	394	Knoxville, Tenn.-----	29	19	370	412
Erie, Pa.-----	37	37	480	477	Louisville, Ky.-----	162	73	1,468	1,556
Jersey City, N.J.-----	75	75	898	936	Memphis, Tenn.-----	109	140	1,507	1,514
Newark, N.J.-----	108	111	1,312	1,331	Mobile, Ala.-----	43*	44	523	582
New York City, N.Y.-----	1,896	1,778	21,443	21,207	Montgomery, Ala.-----	24	39	416	473
Paterson, N.J.-----	34	38	482	534	Nashville, Tenn.-----	60	50	752	822
Philadelphia, Pa.-----	520	621	6,586	6,755	<b>WEST SOUTH CENTRAL:</b>				
Pittsburgh, Pa.-----	172	227	2,414	2,629	Austin, Tex.-----	27	35	422	519
Reading, Pa.-----	20	17	274	304	Baton Rouge, La.-----	29	15	361	420
Rochester, N.Y.-----	107	90	1,271	1,379	Corpus Christi, Tex.-----	40	25	315	350
Schenectady, N.Y.-----	18	32	302	317	Dallas, Tex.-----	123	127	1,559	1,670
Scranton, Pa.-----	42*	31	468	510	El Paso, Tex.-----	43	32	470	542
Syracuse, N.Y.-----	64	68	757	842	Fort Worth, Tex.-----	69	87	854	908
Trenton, N.J.-----	52	58	589	537	Houston, Tex.-----	140	175	2,182	2,346
Utica, N.Y.-----	30	29	370	393	Little Rock, Ark.-----	51	52	696	835
Yonkers, N.Y.-----	27	35	412	401	New Orleans, La.-----	145	180	2,141	2,561
<b>EAST NORTH CENTRAL:</b>					Oklahoma City, Okla.-----	82	79	989	1,021
Akron, Ohio-----	62	56	705	755	San Antonio, Tex.-----	102	102	1,296	1,447
Canton, Ohio-----	21	24	376	486	Shreveport, La.-----	57	39	668	702
Chicago, Ill.-----	720	757	9,226	10,362	Tulsa, Okla.-----	92	48	722	801
Cincinnati, Ohio-----	162	147	1,929	2,207	<b>MOUNTAIN:</b>				
Cleveland, Ohio-----	216	213	2,625	2,948	Albuquerque, N. Mex.-----	32	21	393	401
Columbus, Ohio-----	116	87	1,381	1,621	Colorado Springs, Colo.-----	18	15	207	234
Dayton, Ohio-----	73	88	1,039	946	Denver, Colo.-----	103	140	1,460	1,617
Detroit, Mich.-----	341	329	4,174	4,586	Ogden, Utah-----	17	11	189	223
Evansville, Ind.-----	44	30	449	492	Phoenix, Ariz.-----	89	88	1,078	1,011
Flint, Mich.-----	37	62	520	511	Pueblo, Colo.-----	18	19	199	193
Fort Wayne, Ind.-----	37	36	487	495	Salt Lake City, Utah-----	52	49	615	633
Gary, Ind.-----	24	31	382	405	Tucson, Ariz.-----	48	42	515	473
Grand Rapids, Mich.-----	45	58	560	541	<b>PACIFIC:</b>				
Indianapolis, Ind.-----	160	153	1,832	1,943	Berkeley, Calif.-----	20	18	209	231
Madison, Wis.-----	28	36	379	399	Fresno, Calif.-----	(32)	(50)	(537)	(667)
Milwaukee, Wis.-----	108	138	1,507	1,664	Glendale, Calif.-----	(31)	(33)	(403)	(546)
Peoria, Ill.-----	30	28	357	388	Honolulu, Hawaii-----	42	35	493	538
Rockford, Ill.-----	29	29	346	371	Long Beach, Calif.-----	55	70	742	718
South Bend, Ind.-----	29	24	354	396	Los Angeles, Calif.-----	505	508	6,587	7,336
Toledo, Ohio-----	92	105	1,217	1,387	Oakland, Calif.-----	92	94	1,204	1,267
Youngstown, Ohio-----	51	50	683	774	Pasadena, Calif.-----	37	41	406	478
<b>WEST NORTH CENTRAL:</b>					Portland, Oreg.-----	118	112	1,256	1,388
Des Moines, Iowa-----	57	52	645	735	Sacramento, Calif.-----	49	47	777	808
Duluth, Minn.-----	22	18	321	352	San Diego, Calif.-----	99	93	1,131	1,241
Kansas City, Kans.-----	26	43	467	474	San Francisco, Calif.-----	221	219	2,628	2,687
Kansas City, Mo.-----	129	94	1,614	1,757	San Jose, Calif.-----	(33)	(45)	(423)	(369)
Lincoln, Nebr.-----	(31)	(30)	(364)	(336)	Seattle, Wash.-----	130	138	1,638	1,827
Minneapolis, Minn.-----	120	126	1,548	1,608	Spokane, Wash.-----	34	48	553	598
Omaha, Nebr.-----	77	57	862	1,010	Tacoma, Wash.-----	49	32	507	579
					San Juan, P. R.-----	(31)	(31)	(406)	(436)

\*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.

FOOD-BORNE DISEASE OUTBREAKS REPORTED DURING THE PERIOD JANUARY 1, TO MARCH 29, 1961

Date	State	No. Eating Meal	No. Eating Vehicle	No. Ill	Suspected Vehicle	Place Prepared	Incubation Range	Reported Etiology	Reported By
<b>STAPHYLOCOCCUS ENTEROTOXIN</b>									
*12/15/60	Ky.	Unknown	8	200	Turkey	School	2-6 hr.	Staphylococcus	J. C. Todd
12/25/60	Calif.	8		5	Baked ham	Home	1-6 hr.	Staphylococcus	P. K. Condit
*1/1/61	Wash.	8		6	Ice cream	Home	4-6 hr.	Staphylococcus	E. A. Ager
*1/9/61	Calif.	15	12	7	Enchiladas	Restaurant	3-18 hr.	Staphylococcus	F. A. Listick
*1/26/61	Hawaii	28		13	Chicken	Airplane**	2-6 hr.	Staphylococcus	J. R. Enright
1/27/61	New York	Unknown		100	Custard Pastries	Bakery	2-4 hr.	Staphylococcus	Jack Goldmar
<b>TRICHINOSIS</b>									
*11/20/60	Ca.	Unknown		5	Sausage	Packer	Unknown	Trichinosis	W. J. Murphy
12/60	Penn.	Unknown		25	Sausage	Home	Unknown	Trichinosis	E. J. Witte
*12/60	Iowa	Unknown		18	Sausage	Packer	Unknown	Trichinosis	R. Heeren
1/61	La.	Unknown		11	Sausage	Home	6-11 days	Trichinosis	J. M. Bruce
<b>SHIGELLOSIS</b>									
12/25/60	Calif.	21	14	19	Potato Salad	Home	14-18 hr.	<i>S. sonnei</i>	P. K. Condit
1/29/61	Maine	5		4	Unknown	Restaurant	3 days	<i>S. flexneri</i>	Dean Fisher
<b>HEPATITIS</b>									
*1/61	Miss.		Unknown	45	Raw oysters	Home and Commercial	20-40 days	Hepatitis	A. L. Gray
1/61	Ala.		Unknown	30	Raw oysters	Commercial	20-40 days	Hepatitis	D. G. Gill
<b>BOTULISM &amp; SALMONELLOSIS</b>									
5/28/60	Calif.	175	143	125	Roast beef	Caterer	5-60 hr.	<i>S. heidelberg</i>	P. K. Condit
*1/28/61	Wash.	8		4	Chili	Home	12-38 hr.	Botulism	E. A. Ager
<b>CHEMICAL POISONING</b>									
11/30/60	Calif.	25	25	7	Fruit punch	Commercial	Immediately	Copper(?)	P. K. Condit
1/26/61	Calif.	400		300	Unknown	Church	6-10 hr.	Zinc (?)	P. K. Condit
<b>UNKNOWN ETIOLOGY</b>									
12/3/60	Ill.	465	465	26	Unknown	Hotel	5-22 hr.	Unknown	S. L. Andelman
12/13/60	Calif.	250	179	162	Unknown	Caterer	33-19 hr.	Unknown	P. K. Condit
12/19/60	Calif.	170	36	21	Turkey	Jail Kitchen	8-17 hr.	Unknown	P. K. Condit
1/14/61	Ill.	550	550	300	Beef and gravy	School	7-24 hr.	Unknown	J. B. Hall
1/18/61	Calif.	130	31	34	Meat spread	Childrens' camp	5-16 hr.	Unknown	P. K. Condit
3/9/61	Wash.	3	3	3	Unknown	Restaurant	9-16 hr.	Unknown	E. A. Ager

\* Previously included as epidemiological reports.

\*\* Eaten on commercial airplane.

## 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.

Official Business

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