

# Morbidity and Mortality

Weekly  
Report

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

Prepared by the

COMMUNICABLE DISEASE CENTER

634-5131

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ATLANTA, GEORGIA 30333

Vol. 13, No. 9

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED FEBRUARY 29, 1964

## TYPE E BOTULINUS ANTITOXIN

A limited supply of **Type E** botulinus antitoxin in a polyvalent preparation has been obtained by CDC and may be made available on an emergency basis. Day and night telephone coverage has been established at the following number:

Area Code 404 - 634-2561

For **Type A** and **B** antitoxin, contact should, as in the past, be made with Lederle Laboratory representatives.

Although time does not permit laboratory studies prior to treatment to determine the botulism type involved, it should be noted that Type E botulism has been associated with fish or fish products such as smoked fish, canned tuna, salmon eggs, etc. (See Morbidity and Mortality Weekly Report, Vol. 13, No. 1, 1964). Types A and B botulism may be transmitted through a broad spectrum of improperly processed foods including fish and fish products. Thus, unless some form of fish is suspect as the vehicle, treatment with bivalent A and B antitoxin should provide optimum specific therapy.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

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

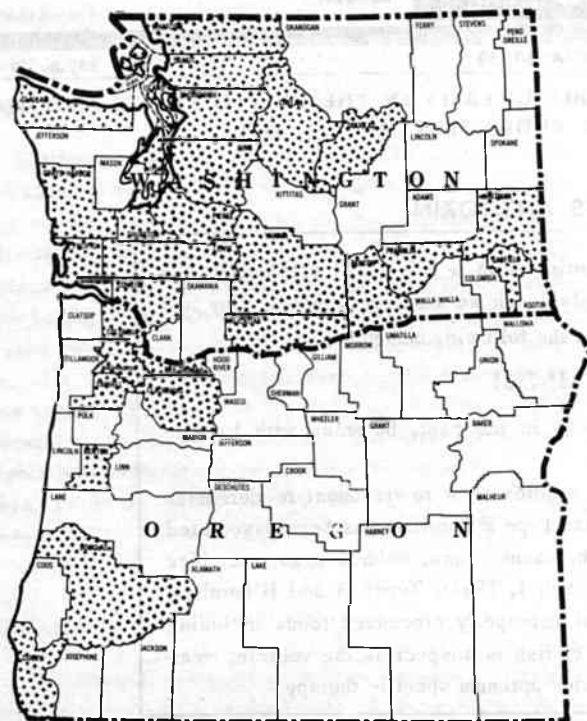
Disease	9th Week Ended		Median 1959 - 1963	Cumulative, First 9 Weeks		
	February 29, 1964	March 2, 1963		1964	1963	Median 1959 - 1963
Aseptic meningitis .....	23	27	---	228	210	---
Brucellosis .....	10	4	12	65	51	80
Diphtheria .....	-	12	12	35	55	162
Encephalitis, primary infectious ..	25	31	---	269	188	---
Encephalitis, post-infectious .....	15	-	---	80	-	---
Hepatitis, infectious including serum hepatitis .....	961	1,215	1,215	8,431	10,117	10,117
Measles .....	10,192	13,980	14,250	63,666	86,933	92,327
Meningococcal infections .....	50	79	57	466	514	483
Poliomyelitis, Total .....	-	1	5	8	29	75
Paralytic .....	-	1	3	5	25	40
Nonparalytic .....	-	-	---	3	2	---
Unspecified .....	-	-	---	-	2	---
Streptococcal Sore Throat and Scarlet fever .....	11,966	12,933	---	90,124	86,847	---
Tetanus .....	2	6	---	40	32	---
Tularemia .....	8	5	---	59	43	---
Typhoid fever .....	3	4	10	57	44	78
Rabies in Animals .....	81	71	79	636	523	589

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: Ark - 1	1	Psittacosis: Va - 1	4
Botulism:	2	Rabies in Man:	-
Leptospirosis: Ore - 1	5	Smallpox:	-
Malaria: Pa - 1	18	Typhus-	1
Plague:	-	Murine:	3
		Rky Mt. Spotted:	

### COUNTIES REPORTING OUTBREAKS OF INFLUENZA-LIKE DISEASE

Washington and Oregon, January 27-March 3, 1964



### EPIDEMIOLOGICAL REPORTS

#### Influenza - Washington and Oregon

Community-wide outbreaks of influenza-like disease remain confined to the adjoining States of Washington and Oregon. No further evidence of epidemic activity has been noted in California where a single institutional outbreak has recently been reported (MMWR, Vol. 13, No. 8, Feb. 22, 1964).

#### Washington

Twenty-two of Washington's 39 counties have reported outbreaks of influenza-like disease to date (See map). Reports received during the past week have all been from southern counties, extending from the southwestern corner of the State to near the Idaho border. Each of these areas has experienced abnormally elevated school absenteeism, reaching as high as 20% in selected communities. Earlier outbreaks observed in the northwestern corner of the State where the current epidemic began (Skagit, Snohomish, and Whatcom Counties) now appear to have subsided. Likewise, recent outbreaks in the Seattle-King County area

and in the city of Tacoma (Pierce County) now appear to be waning.

(Reported by Ernest A. Ager, M.D., Chief, Division of Epidemiology, State Department of Health, Olympia, Washington.)

#### Oregon

Additional outbreaks of influenza-like disease have been reported from two western Oregon counties during the past week, bringing to 8 the total number of counties involved in the current epidemic. Most severely affected has been the community of Vernonia (pop. 1100) in Columbia County, where an estimated 200 cases have occurred to date. The illness has been characterized by fever, cough, myalgia, sore throat, and eye pain. School absenteeism was markedly elevated at the height of the outbreak, requiring closure of the community high school for a two day period. A milder outbreak has recently been observed in Curry County, in the southwestern corner of the State. Specimens have been obtained from selected patients and are currently being processed at the State Laboratories.

(Reported by Dr. Grant Skinner, Director, Epidemiology Section, State Board of Health, Portland, Oregon.)

#### Malaria - Washington

A case of chloroquine resistant malaria (*Plasmodium falciparum*) in a 21-year-old German seaman has been reported from the U. S. Public Health Service Hospital, Seattle.

The patient sailed from Germany in early June 1963 aboard a ship which passed through the Panama Canal and made several stops in Central America. Neither he nor other crew members took prophylactic anti-malarial drugs on the trip; no other crew members were known to be ill.

On July 16, the patient abruptly developed moderately severe frontal headaches and fever. The following day, he became extremely weak. He experienced anorexia, but not chills, gastro-intestinal or urinary symptoms. On July 20, when he was hospitalized because of the recurrence of his fever, his vital signs were: blood pressure 100/70, pulse 100, respirations 26, temperature 104.2°F (oral). He had slight tenderness to palpation of the frontal region of his head, but no meningismus. The spleen was not palpable. The remainder of physical examination was unremarkable. His initial laboratory tests were Hgb 15.8; Hct 46; WBC 4000; urinalysis report was negative. Repeat spinal fluid and blood cultures were negative for bacterial growth. Blood smears on July 25 and 26 failed to demonstrate the parasite. Further laboratory studies,

including agglutination titers to several infectious diseases, over the succeeding days, were unrewarding. His spleen was not clinically enlarged on admission, but it became palpable on July 28. The splenomegaly enlarged to 6 cm. below the left costal margin. During his hospitalization the patient's temperature ranged from a high of 104° (admission) to normal (usually in the mornings).

On August 8, a bone marrow examination and third malarial smear were performed; *P. falciparum* was identified by typical signet ring cells and gametocytes on both bone marrow and peripheral smears.

The patient was treated with Chloroquine, one gram initially, and 0.5 grams 6 hours later, then 0.5 grams daily for 3 days; 3 grams total. He became afebrile 24 hours later. Yet, gametocytes and occasional signet ring cells were noted on blood smears several days after this therapy. The attending physicians recognized the possible presence of a resistant strain of *P. falciparum* malaria, which has been reported from South America.<sup>1</sup> Another anti-malarial drug was substituted; he was placed under surveillance until malarial smears later proved negative. He returned to Germany by air.

(Reported by Stanley W. Sherry, M.D. and James F. Lane, M.D., Medical Officer in Charge, U. S. Public Health Service Hospital, Seattle, Washington, and Ernest A. Ager, M.D., Chief, Communicable Disease Control Section, Washington State Department of Health).

## REFERENCES

1. Moore, D. V. and Lanier, J. E.: Observations on two *Plasmodium falciparum* infections with an abnormal response to chloroquine. Am. J. Trop. Med. and Hyg. 10:5-9, 1961.

2. Young, M. D. and Moore, D. V.: Chloroquine resistance in *Plasmodium falciparum*. Am. J. Trop. Med. and Hyg. 10:317-320, 1961.
3. Powell, R. D., Brewer, G. J. and Alving, A. S.: Studies on a strain of chloroquine-resistant *Plasmodium falciparum* from Colombia, South America. Am. J. Trop. Med. and Hyg. 12:509-512, July 1963.

## Staphylococcal Food Poisoning - California

During a one-week period in October 1963, 7 individual customers of a Berkeley restaurant experienced gastroenteritis after eating either sliced ham or pastrami. Their symptoms included nausea, vomiting, abdominal cramps, and diarrhea from 1½-4¼ hours after ingestion. The symptoms lasted approximately 3 hours.

The 7 cases represent multiple incidents during the week. They were the only ones reported to the local health department. An investigation to uncover additional cases was not reported; no estimate is known of the total number of customers eating and becoming ill from these foods.

A canned ham, which had been heated for 2 hours in an oven at 400°F, was used throughout the week. The ham was placed on a steam table during the business day; remains of the ham were then refrigerated over night and reheated for use the following day. The ham was continually in the process of being removed from the steam table and sliced by the food handlers. Coagulase positive staphylococci were cultured from this ham. No pastrami

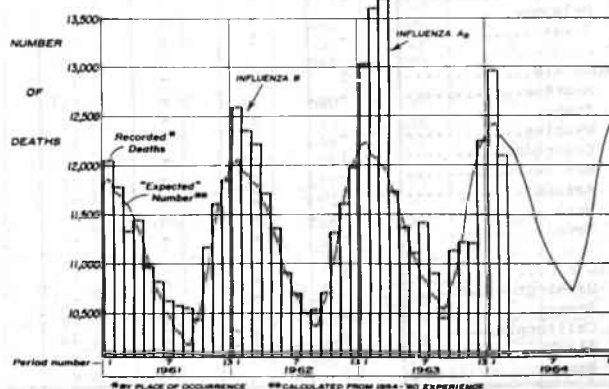
(Continued on page 76)

## TOTAL DEATHS REPORTED IN 108 CITIES

The weekly average number of total deaths in 108 cities for the four-week period ending February 29 was 12,090 as compared with an expected weekly average 12,266.

## TOTAL DEATHS REPORTED IN 108 CITIES IN THE UNITED STATES

	WEEK ENDING				4 Week Total	Weekly Average
	2/8	2/15	2/22	2/29		
Observed	12,051	11,935	12,222	12,150	48,358	12,090
Expected	12,308	12,277	12,252	12,227	49,064	12,266
Excess	-257	-342	-30	-77	-706	-176

TOTAL DEATHS RECORDED IN 108 U.S. CITIES  
Average Number per Week by Four-Week Periods

(See Table, page 75)

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED

FEBRUARY 29, 1964 AND

MARCH 2, 1963 ( 9th WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
			Primary	Post-Inf.			Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	23	27	25	15	-	1	8	29	-	1	5	25
NEW ENGLAND.....	1	-	-	-	-	-	-	-	-	-	-	-
Maine.....	-	-	-	-	-	-	-	-	-	-	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	1	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	3	1	7	3	-	1	2	5	-	1	2	5
New York City.....	-	-	2	-	-	-	-	-	-	-	-	-
New York, Up-State..	1	1	-	3	-	1	1	4	-	1	1	4
New Jersey.....	2	-	4	-	-	-	1	-	-	-	1	-
Pennsylvania.....	-	-	1	-	-	-	-	1	-	-	-	1
EAST NORTH CENTRAL...	4	5	2	7	-	-	-	8	-	-	-	6
Ohio.....	-	1	2	1	-	-	-	2	-	-	-	1
Indiana.....	1	-	-	-	-	-	-	-	-	-	-	-
Illinois.....	-	1	-	5	-	-	-	5	-	-	-	4
Michigan.....	2	2	-	1	-	-	-	1	-	-	-	1
Wisconsin.....	1	1	-	-	-	-	-	-	-	-	-	-
WEST NORTH CENTRAL...	-	2	6	-	-	-	-	1	-	-	-	1
Minnesota.....	-	2	6	-	-	-	-	1	-	-	-	1
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	-	-	-	-	-	-
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	-	-	-	-	-	-	-	-	-	-	-	-
Kansas.....	-	-	-	-	-	-	-	-	-	-	-	-
SOUTH ATLANTIC.....	1	5	3	-	-	-	6	2	-	-	3	2
Delaware.....	-	5	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	1	-	-	-	-	-	-	-	-	-
Dist. of Columbia..	-	-	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	-	-	-	-	-	-	-	-	-	-	-
West Virginia.....	-	-	-	-	-	-	-	-	-	-	-	-
North Carolina.....	-	-	-	-	-	-	-	-	-	-	-	-
South Carolina.....	-	-	-	-	-	-	3	2	-	-	-	2
Georgia.....	-	-	-	-	-	-	1	-	-	-	1	-
Florida.....	1	-	2	-	-	-	2	-	-	-	2	-
EAST SOUTH CENTRAL...	4	3	-	-	-	-	-	1	-	-	-	-
Kentucky.....	3	2	-	-	-	-	-	-	-	-	-	-
Tennessee.....	1	-	-	-	-	-	-	-	-	-	-	-
Alabama.....	-	-	-	-	-	-	-	1	-	-	-	-
Mississippi.....	-	1	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	-	2	-	-	-	-	-	8	-	-	-	8
Arkansas.....	-	-	-	-	-	-	-	-	-	-	-	-
Louisiana.....	-	-	-	-	-	-	-	7	-	-	-	7
Oklahoma.....	-	-	-	-	-	-	-	-	-	-	-	-
Texas.....	-	2	-	-	-	-	-	1	-	-	-	1
MOUNTAIN.....	2	2	-	1	-	-	-	-	-	-	-	-
Montana.....	-	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	-	-	1	-	-	-	-	-	-	-	-
Colorado.....	1	-	-	-	-	-	-	-	-	-	-	-
New Mexico.....	-	-	-	-	-	-	-	-	-	-	-	-
Arizona.....	1	2	-	-	-	-	-	-	-	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	8	7	7	4	-	-	-	4	-	-	-	3
Washington.....	-	-	-	-	-	-	-	-	-	-	-	-
Oregon.....	-	-	-	1	-	-	-	1	-	-	-	1
California.....	7	7	7	3	-	-	-	3	-	-	-	2
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	---	-	---	---	---	-	-	-	---	-	-	-

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Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 29, 1964 AND

MARCH 2, 1963 ( 9th WEEK) - Continued

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	10	65	-	35	961	462	425	74	8,431	10,117	3	57
NEW ENGLAND.....	-	-	-	1	86	44	40	2	1,015	1,320	-	5
Maine.....	-	-	-	-	29	20	9	-	368	595	-	-
New Hampshire.....	-	-	-	-	6	1	4	1	97	94	-	-
Vermont.....	-	-	-	-	3	2	1	-	115	17	-	-
Massachusetts.....	-	-	-	1	21	15	6	-	187	409	-	3
Rhode Island.....	-	-	-	-	7	1	6	-	42	31	-	2
Connecticut.....	-	-	-	-	20	5	14	1	206	174	-	-
MIDDLE ATLANTIC.....	-	1	-	4	231	104	127	-	1,867	1,917	-	9
New York City.....	-	-	-	1	29	10	19	-	252	208	-	2
New York, Up-State.....	-	-	-	-	107	54	53	-	887	899	-	3
New Jersey.....	-	-	-	2	41	14	27	-	280	301	-	-
Pennsylvania.....	-	1	-	1	54	26	28	-	448	509	-	4
EAST NORTH CENTRAL...	-	10	-	6	171	77	76	18	1,239	1,610	-	12
Ohio.....	-	-	-	-	37	16	16	5	347	480	-	11
Indiana.....	-	-	-	-	9	8	1	-	90	130	-	-
Illinois.....	-	9	-	6	51	23	26	2	195	316	-	1
Michigan.....	-	-	-	-	58	26	32	-	552	596	-	-
Wisconsin.....	-	1	-	-	16	4	1	11	55	88	-	-
WEST NORTH CENTRAL...	9	37	-	8	54	34	12	8	543	449	-	3
Minnesota.....	-	-	-	1	4	3	1	-	32	84	-	-
Iowa.....	7	19	-	-	11	5	6	-	84	70	-	2
Missouri.....	1	4	-	-	13	10	1	2	129	194	-	1
North Dakota.....	-	-	-	-	1	1	-	-	29	11	-	-
South Dakota.....	1	6	-	-	7	3	4	-	65	15	-	-
Nebraska.....	-	8	-	-	3	1	-	2	16	31	-	-
Kansas.....	-	-	-	7	15	11	-	4	188	44	-	-
SOUTH ATLANTIC.....	-	2	-	5	85	52	32	1	796	1,122	1	16
Delaware.....	-	-	-	-	5	2	3	-	14	15	-	-
Maryland.....	-	-	-	-	20	12	8	-	135	105	-	-
Dist. of Columbia..	-	-	-	-	1	-	1	-	15	38	-	-
Virginia.....	-	1	-	-	6	1	4	1	113	282	1	2
West Virginia.....	-	-	-	-	15	13	2	-	142	158	-	-
North Carolina.....	-	1	-	-	9	7	2	-	162	303	-	9
South Carolina.....	-	-	-	1	7	4	3	-	27	52	-	1
Georgia.....	-	-	-	2	1	1	-	-	12	40	-	-
Florida.....	-	-	-	2	21	12	9	-	176	129	-	4
EAST SOUTH CENTRAL...	-	1	-	1	69	45	21	3	564	1,042	1	6
Kentucky.....	-	-	-	-	22	13	6	3	271	326	1	2
Tennessee.....	-	-	-	1	37	26	11	-	192	406	-	3
Alabama.....	-	1	-	-	8	4	4	-	69	142	-	1
Mississippi.....	-	-	-	-	2	2	-	-	32	168	-	-
WEST SOUTH CENTRAL...	-	3	-	5	70	39	26	5	572	678	1	3
Arkansas.....	-	1	-	-	4	2	2	-	73	103	-	1
Louisiana.....	-	1	-	2	12	10	2	-	103	104	-	-
Oklahoma.....	-	1	-	-	7	5	2	-	35	41	1	2
Texas.....	-	-	-	3	47	22	20	5	361	430	-	-
MOUNTAIN.....	-	7	-	-	56	12	9	35	560	790	-	-
Montana.....	-	-	-	-	2	1	1	-	53	126	-	-
Idaho.....	-	-	-	-	3	-	-	3	46	122	-	-
Wyoming.....	-	-	-	-	4	3	1	-	24	7	-	-
Colorado.....	-	-	-	-	27	3	2	22	159	173	-	-
New Mexico.....	-	1	-	-	6	3	2	1	94	90	-	-
Arizona.....	-	1	-	-	9	-	-	9	116	171	-	-
Utah.....	-	5	-	-	5	2	3	-	58	92	-	-
Nevada.....	-	-	-	-	-	-	-	-	10	9	-	-
PACIFIC.....	1	4	-	5	139	55	82	2	1,275	1,189	-	3
Washington.....	-	-	-	5	8	3	5	-	141	205	-	-
Oregon.....	-	-	-	-	19	4	13	2	154	179	-	-
California.....	1	4	-	-	99	45	54	-	903	769	-	3
Alaska.....	-	-	-	-	-	-	-	-	44	28	-	-
Hawaii.....	-	-	-	-	13	3	10	-	33	8	-	-
Puerto Rico	---	-	---	1	---	---	---	---	49	82	---	---

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 29, 1964 AND

MARCH 2, 1963 ( 9th WEEK) - Continued

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
		1964	Cumulative		1964	1963	1964	Cum.	1964	Cum.	1964	Cum.
			1964	1963								
UNITED STATES...	10,192	50	466	514	11,966	12,933	2	40	8	59	81	636
NEW ENGLAND.....	531	1	14	41	1,492	1,140	-	-	-	-	-	1
Maine.....	96	1	1	8	48	139	-	-	-	-	-	-
New Hampshire.....	4	-	-	-	9	1	-	-	-	-	-	1
Vermont.....	174	-	-	1	21	4	-	-	-	-	-	-
Massachusetts.....	81	-	6	17	135	134	-	-	-	-	-	-
Rhode Island.....	41	-	2	5	101	101	-	-	-	-	-	-
Connecticut.....	135	-	5	10	1,178	761	-	-	-	-	-	-
MIDDLE ATLANTIC.....	1,805	5	58	70	659	789	-	-	-	-	2	17
New York City.....	547	1	9	8	29	37	-	-	-	-	-	-
New York, Up-State.....	345	1	18	25	379	357	-	-	-	-	2	16
New Jersey.....	492	2	14	10	154	147	-	-	-	-	-	-
Pennsylvania.....	421	1	17	27	97	248	-	-	-	-	-	1
EAST NORTH CENTRAL...	2,898	15	81	83	1,733	2,130	-	4	-	6	3	58
Ohio.....	423	4	25	25	374	332	-	1	-	1	3	33
Indiana.....	536	2	10	14	143	337	-	-	-	-	-	4
Illinois.....	549	3	17	13	206	502	-	2	-	3	-	7
Michigan.....	940	5	24	22	693	587	-	1	-	1	-	7
Wisconsin.....	450	1	5	9	317	372	-	-	-	1	-	7
WEST NORTH CENTRAL...	263	2	21	29	511	493	-	2	4	17	30	200
Minnesota.....	45	-	5	5	44	37	-	-	-	1	10	60
Iowa.....	90	1	1	-	137	116	-	-	-	1	13	66
Missouri.....	3	-	8	14	38	13	-	2	2	10	4	38
North Dakota.....	123	1	3	1	174	185	-	-	-	-	1	12
South Dakota.....	-	-	-	2	6	10	-	-	-	-	1	15
Nebraska.....	2	-	1	7	-	1	-	-	-	-	1	7
Kansas.....	NN	-	3	-	112	131	-	-	2	5	-	2
SOUTH ATLANTIC.....	998	8	113	117	730	941	-	16	-	9	17	117
Delaware.....	17	-	1	1	4	9	-	-	-	-	-	-
Maryland.....	163	-	11	18	79	59	-	1	-	-	-	-
Dist. of Columbia..	27	1	2	2	8	1	-	-	-	-	-	-
Virginia.....	152	1	10	26	261	269	-	-	-	3	10	90
West Virginia.....	255	2	10	7	192	296	-	-	-	-	3	6
North Carolina.....	46	1	12	20	25	13	-	7	-	-	-	1
South Carolina.....	272	-	13	9	74	161	-	2	-	-	-	-
Georgia.....	7	1	10	6	10	3	-	-	-	6	3	9
Florida.....	59	2	44	28	77	130	-	6	-	-	1	11
EAST SOUTH CENTRAL...	1,772	9	40	36	2,438	1,963	1	5	3	15	16	106
Kentucky.....	649	1	7	10	278	246	-	-	-	1	2	17
Tennessee.....	870	7	20	17	1,946	1,594	-	2	1	10	14	86
Alabama.....	17	1	7	6	35	75	1	3	1	3	-	3
Mississippi.....	236	-	6	3	179	48	-	-	1	1	-	-
WEST SOUTH CENTRAL...	79	2	33	49	1,001	1,348	-	6	1	10	6	90
Arkansas.....	46	-	4	4	5	1	-	1	-	1	2	28
Louisiana.....	14	2	26	16	8	5	-	3	-	-	-	9
Oklahoma.....	19	-	3	11	76	31	-	-	1	9	-	7
Texas.....	-	-	-	18	912	1,311	-	2	-	-	4	46
MOUNTAIN.....	517	-	25	17	1,692	1,999	-	2	-	2	3	26
Montana.....	105	-	-	-	87	51	-	-	-	1	-	-
Idaho.....	81	-	1	-	155	195	-	-	-	-	-	-
Wyoming.....	1	-	1	-	37	183	-	1	-	1	-	-
Colorado.....	69	-	6	3	606	736	-	-	-	-	-	-
New Mexico.....	21	-	10	2	517	433	-	1	-	-	2	16
Arizona.....	200	-	2	4	114	200	-	-	-	-	1	10
Utah.....	19	-	1	7	175	199	-	-	-	-	-	-
Nevada.....	21	-	4	1	1	2	-	-	-	-	-	-
PACIFIC.....	1,329	8	81	72	1,710	2,130	1	5	-	-	4	21
Washington.....	391	-	6	6	392	477	-	-	-	-	-	-
Oregon.....	146	1	4	3	41	36	-	-	-	-	-	-
California.....	727	7	66	59	1,150	1,567	1	5	-	-	4	21
Alaska.....	58	-	2	4	66	25	-	-	-	-	-	-
Hawaii.....	7	-	3	-	61	25	-	-	-	-	-	-
Puerto Rico	---	---	2	-	---	-	---	6	---	-	---	1

## Morbidity and Mortality Weekly Report

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Table 4 (A). TOTAL DEATHS IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)\*

Area	For weeks ending				Area	For weeks ending			
	2/8	2/15	2/22	2/29		2/8	2/15	2/22	2/29
NEW ENGLAND:					SOUTH ATLANTIC:				
Boston, Mass. ....	244	273	263	232	Atlanta, Ga. ....	126	129	130	125
Bridgeport, Conn. ....	42	35	38	45	Baltimore, Md. ....	259	245	283	267
Cambridge, Mass. ....	24	19	19	26	Charlotte, N.C. ....	36	33	45	27
Fall River, Mass. ....	32	28	28	26	Jacksonville, Fla. ....	43	59	68	70
Hartford, Conn. ....	60	49	53	70	Miami, Fla. ....	90	91	89	81
Lowell, Mass. ....	20	27	24	19	Norfolk, Va. ....	61	53	45	59
Lynn, Mass. ....	20	26	23	25	Richmond, Va. ....	94	107	93	99
New Bedford, Mass. ....	27	22	24	25	Savannah, Ga. ....	34	35	31	42
New Haven, Conn. ....	54	44	62	49	St. Petersburg, Fla. ....	107	99	91	94
Providence, R.I. ....	60	60	76	66	Tampa, Fla. ....	73	88	104	82
Somerville, Mass. ....	10	7	23	7	Washington, D.C. ....	185	236	228	204
Springfield, Mass. ....	44	52	47	52	Wilmington, Del. ....	41	42	42	45
Waterbury, Conn. ....	33	15	22	26	EAST SOUTH CENTRAL:				
Worcester, Mass. ....	62	55	62	52	Birmingham, Ala. ....	92	94	93	99
MIDDLE ATLANTIC:					Chattanooga, Tenn. ....	58	45	40	55
Albany, N.Y. ....	65	38	44	30	Knoxville, Tenn. ....	56	44	32	40
Allentown, Pa. ....	25	42	30	36	Louisville, Ky. ....	119	150	128	104
Buffalo, N.Y. ....	142	152	146	142	Memphis, Tenn. ....	138	144	157	154
Camden, N.J. ....	46	45	43	39	Mobile, Ala. ....	43	38	45	55
Elizabeth, N.J. ....	35	20	18	40	Montgomery, Ala. ....	34	31	41	41
Erie, Pa. ....	43	27	42	44	Nashville, Tenn. ....	118	91	77	113
Jersey City, N.J. ....	88	91	60	55	WEST SOUTH CENTRAL:				
Newark, N.J. ....	99	132	107	100	Austin, Tex. ....	41	33	46	41
New York City, N.Y. ....	1,696	1,720	1,791	1,768	Baton Rouge, La. ....	45	24	38	27
Paterson, N.J. ....	39	46	48	32	Corpus Christi, Tex. ....	18	37	22	27
Philadelphia, Pa. ....	513	550	555	554	Dallas, Tex. ....	148	147	132	147
Pittsburgh, Pa. ....	270	187	200	180	El Paso, Tex. ....	54	40	48	33
Reading, Pa. ....	67	52	43	61	Fort Worth, Tex. ....	79	60	69	91
Rochester, N.Y. ....	101	90	111	107	Houston, Tex. ....	177	185	178	251
Schenectady, N.Y. ....	20	33	37	20	Little Rock, Ark. ....	56	55	50	74
Scranton, Pa. ....	42	37	36	41*	New Orleans, La. ....	193	230	191	206
Syracuse, N.Y. ....	66	56	46	71	Oklahoma City, Okla. ....	72	87	76	70
Trenton, N.J. ....	46	48	71	39	San Antonio, Tex. ....	119	116	112	116*
Utica, N.Y. ....	28	28	29	25	Shreveport, La. ....	51	63	59	41
Yonkers, N.Y. ....	32	39	41	22	Tulsa, Okla. ....	46	92	78	47
EAST NORTH CENTRAL:					MOUNTAIN:				
Akron, Ohio.....	64	73	50	60	Albuquerque, N. Mex. ....	41	32	27	24
Canton, Ohio.....	34	41	28	29	Colorado Springs, Colo. ...	21	14	25	22
Chicago, Ill. ....	739	766	753	763*	Denver, Colo. ....	120	127	125	143
Cincinnati, Ohio.....	163	149	147	185	Ogden, Utah.....	19	19	17	17
Cleveland, Ohio.....	195	274	221	208*	Phoenix, Ariz. ....	125	52	140	105
Columbus, Ohio.....	107	104	129	122	Pueblo, Colo. ....	18	15	18	16
Dayton, Ohio.....	90	84	61	105	Salt Lake City, Utah.....	51	54	56	38
Detroit, Mich. ....	351	372	342	339	Tucson, Ariz. ....	45	38	85	60
Evansville, Ind. ....	58	33	47	43	PACIFIC:				
Flint, Mich. ....	56	57	50	37	Berkeley, Calif. ....	20	14	27	30
Fort Wayne, Ind. ....	46	38	43	40	Fresno, Calif. ....	52	50	44	51
Gary, Ind. ....	40	41	28	29	Glendale, Calif. ....	38	38	44	43
Grand Rapids, Mich. ....	33	59	36	50	Honolulu, Hawaii.....	51	46	30	33
Indianapolis, Ind. ....	171	125	174	154	Long Beach, Calif. ....	68	54	73	72
Madison, Wis. ....	15	26	32	39	Los Angeles, Calif. ....	576	549	542	545
Milwaukee, Wis. ....	129	121	118	149	Oakland, Calif. ....	113	99	111	96
Peoria, Ill. ....	32	37	31	29	Pasadena, Calif. ....	41	30	37	30
Rockford, Ill. ....	25	23	18	28	Portland, Oreg. ....	114	107	114	159
South Bend, Ind. ....	43	48	41	38	Sacramento, Calif. ....	75	65	54	66*
Toledo, Ohio.....	112	86	117	96	San Diego, Calif. ....	114	112	83	99
Youngstown, Ohio.....	62	44	63	54	San Francisco, Calif. ....	189	185	199	203
WEST NORTH CENTRAL:					San Jose, Calif. ....	34	40	29	35
Des Moines, Iowa.....	45	49	43	67	Seattle, Wash. ....	147	153	191	140
Duluth, Minn. ....	22	24	28	20	Spokane, Wash. ....	38	72	58	48
Kansas City, Kans. ....	40	35	37	41	Tacoma, Wash. ....	39	39	40	38
Kansas City, Mo. ....	144	131	129	163	San Juan, P.R. ....	22	27	18	22
Lincoln, Nebr. ....	26	25	24	20	Current Week Mortality for 108 Selected Cities				
Minneapolis, Minn. ....	118	121	105	134	4(A) Total Mortality, all ages..... 12,150				
Omaha, Nebr. ....	55	68	80	67	4(B) Pneumonia-Influenza Deaths, all ages..... 540				
St. Louis, Mo. ....	240	209	286	263	4(C) Total Deaths under 1 Year of Age..... 717				
St. Paul, Minn. ....	80	69	73	55	4(D) Total Deaths, Persons 65 years and over..... 6,917				
Wichita, Kans. ....	65	44	44	79					

\*Estimate - based on average percent of divisional total.  
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.



remained for study. The pastrami was in physical contiguity with the ham, and was handled by the same individuals.

The 2 food handlers were found to have blister and knife wounds on their hands. Only one food handler was cultured; his knife wound grew coagulase positive staphylococci. No phage typing was reported. No cultures of other remaining foods were reported.

(Reported by Robert Temer, Sanitarian, Division of Environmental Health, and Glenn Lynch, Chief, Division of Environmental Health, City of Berkeley Health Department, and Philip K. Condit, M.D., M.P.H., Chief, Bureau of Communicable Diseases, California State Department of Public Health).

*Editor's Note:* This incident demonstrates how a single source outbreak can continue to smolder because of the lack of reporting of individual or small numbers of food-borne gastroenteritis cases to health officials.

In addition to the established procedures for reporting morbidity and mortality, the Communicable Disease Center welcomes accounts of interesting outbreaks or cases. Such accounts should be addressed to:

Lawrence K. Altman, M.D., Editor  
Morbidity and Mortality Weekly Report  
Communicable Disease Center  
Atlanta, Georgia 30333

Notes: These provisional data are based on weekly telegrams to the Communicable Disease Center by the individual State health departments.  
Symbols: --- Data not available  
Quantity zero

Procedures for construction of various mortality curves may be obtained from Statistics Section, Communicable Disease Center, Public Health Service, U. S. Department of Health, Education, and Welfare, Atlanta, Georgia 30333.

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## INTERNATIONAL NOTES - QUARANTINE MEASURES

### DENGUE FEVER - Caribbean

Dengue fever continues to decline in Puerto Rico, with only 36 cases (including 32 late reports reported during the week ended February 29, 1964. Very few cases have been reported from metropolitan areas during January and February. Of 1,389 cases reported in January, 1227 (88 percent) were from the western end of the island, the only area previously untouched. Following the development of the original focus on the north central coast, the outbreak progressed in a clockwise direction and has now completed its sweep of the island.

Sixteen cases were reported in Jamaica during the week ended February 26, as reported number of cases also continue to decline on that island. On Antigua, 17 cases of dengue fever were reported during the week ended February 26, bringing the cumulative total on that island to 347 cases since the disease was first reported in December.

(Reported by the Pan American Health Organization and Rafael Timothee, M.D., Chief, Division of Preventive Medical Services, Puerto Rico Department of Health).

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