



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION

DATE OF RELEASE: FEBRUARY 7, 1969 - ATLANTA, GEORGIA 30333

**EPIDEMIOLOGIC NOTES AND REPORTS**

**INFLUENZA - United States and Puerto Rico**

During the week ending February 1, 1969, all states except Kansas reported decreased influenza activity. In Kansas, influenza activity was first noted in mid-November, progressed to widespread activity, peaked during the week ending January 4, and decreased to almost normal levels over the following 3 weeks. However, during the last 3 days of January, certain metropolitan and rural areas in eastern Kansas noted elevated school absenteeism of 5 to 50 percent, secondary to an influenza-like disease. In Kansas City on January 31, a viral isolate with hemadsorbing properties of A2/Hong Kong/68 influenza was obtained. Further epidemiologic and definitive viral typing are pending.

Additional epidemiologic information from Puerto Rico indicates that there are no outbreaks of influenza-

**CONTENTS**

Epidemiologic Notes and Reports	
Influenza - United States and Puerto Rico	37
Trichinosis - Mississippi	39
Surveillance Summary	
Meningococcal Infections	38

like disease or evidence of significant increased activity. The increase in influenza activity reported last week (MMWR, Vol. 18, No. 4) appears to have been caused by delayed reporting from certain major cities.

During the past week, total mortality and pneumonia-influenza deaths from 122 U.S. cities decreased for the third consecutive week (Figures 1 and 2), and all geographic divisions reported a decline in pneumonia-influenza deaths. For the first time in 9 weeks, there was no excess mortality in the age group 65 years and over and no

(C continued on page 38)

**TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES**  
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	5th WEEK ENDED		MEDIAN 1964 - 1968	CUMULATIVE, FIRST 5 WEEKS		
	February 1, 1969	February 3, 1968		1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis	27	32	19	116	138	138
Brucellosis	—	3	3	7	5	17
Diphtheria	3	—	2	12	7	12
Encephalitis, primary:						
Arthropod-borne & unspecified	19	7	24	96	74	113
Post-infectious	3	7	13	22	39	45
Hepatitis, serum	173	61	910	533	321	4,021
Hepatitis, infectious	859	820		3,938	3,888	
Malaria	50	86	6	202	243	26
Measles (rubeola)	425	531	5,857	1,549	2,339	26,003
Meningococcal infections, total	67	125	65	377	415	316
Civilian	64	115	—	360	391	—
Military	3	10	—	17	24	—
Mumps	2,129	5,051	—	10,046	22,510	—
Poliomyelitis, total	1	—	—	1	—	1
Paralytic	1	—	—	1	—	—
Rubella (German measles)	549	773	—	2,103	2,691	—
Streptococcal sore throat & scarlet fever	10,668	13,288	11,789	52,700	56,652	51,454
Tetanus	1	2	3	7	8	13
Tularemia	2	3	2	9	8	18
Typhoid fever	4	3	6	19	20	28
Typhus, tick-borne (Rky. Mt. spotted fever)	—	1	—	1	3	4
Rabies in animals	47	62	69	262	357	352

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

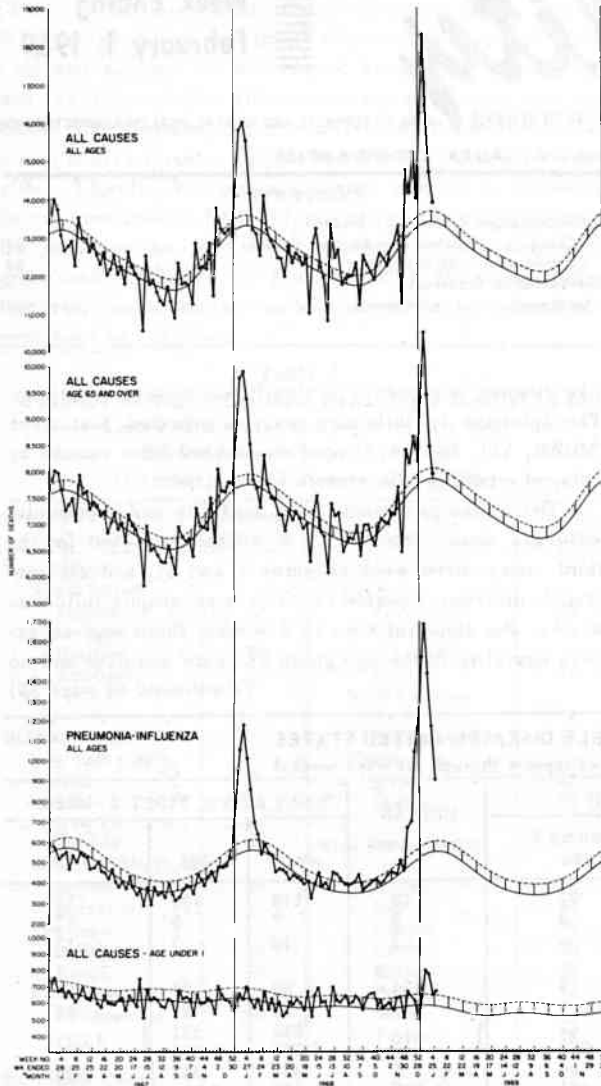
	Cum.		Cum.
Anthrax:	—	Rabies in man:	—
Botulism:	—	Rubella congenital syndrome:	—
Leptospirosis:	4	Trichinosis: N.J.-1, N.Y.C.-1	11
Plague:	—	Typhus, murine:	—
Psittacosis: Conn.-1, Ga.-1	4		

\*Delayed reports: Leptospirosis: Tex. 1(1968)  
Data Exclude Missing Report From Virginia

INFLUENZA - (Continued from front page)

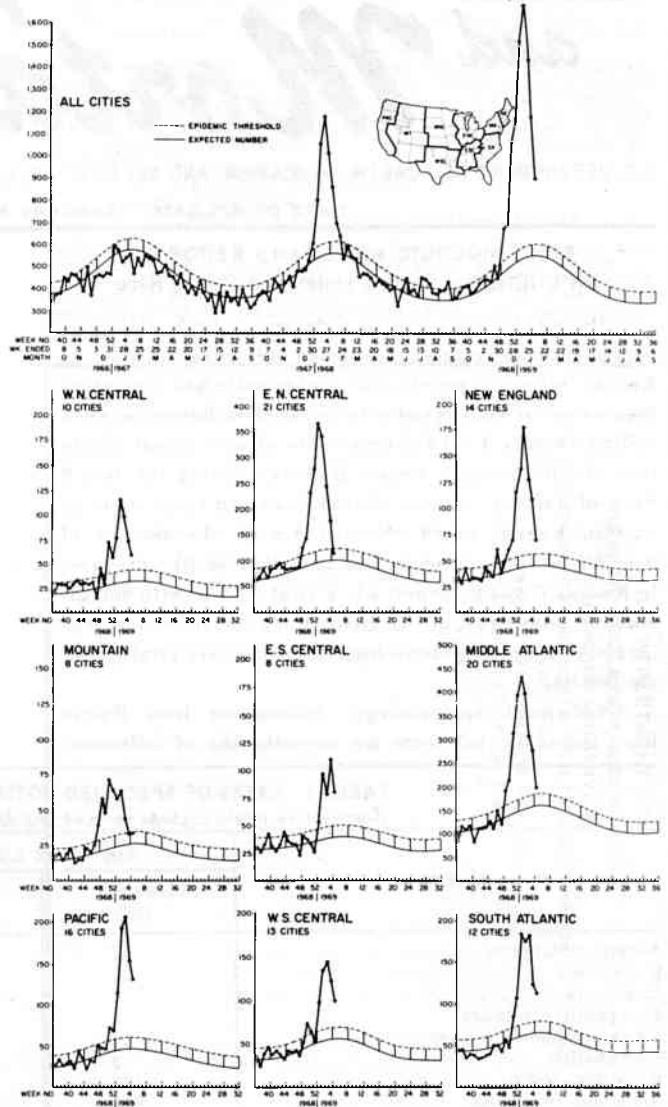
excess pneumonia-influenza deaths in the East North Central Division.

Figure 1  
MORTALITY IN 122 UNITED STATES CITIES



(Reported by Donald E. Wilcox, M.D., Director, Section of Epidemiology, Kansas State Department of Health; Kenneth Ramirez Smith, M.D., Director, Programs for Preventive Medicine, and Luis E. Mainardi, M.D., Chief,

Figure 2  
PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES



Communicable Disease Control, Puerto Rico Department of Health; Ecological Investigations Program, NCDC, Kansas City; and the Statistics Section, and Respiratory Diseases Unit, Viral Diseases Section, Epidemiology Program, NCDC.)

SURVEILLANCE SUMMARY  
MENINGOCOCCAL INFECTIONS

In 1968, 2,524 meningococcal infections were reported to the NCDC for an annual rate of 1.27 cases per 100,000 population. The number of cases increased 16 percent over the 2,164 cases reported in 1967 (annual rate of 1.10), while the 1968 rate was lower than the mean rate of 1.34 for the 8 years 1960-1967. Military cases comprised 8.3 percent of the 1968 total compared with 6.1 and 9.8 percent in 1967 and 1966, respectively. There was no signifi-

cant change in the pattern of reporting from the nine U.S./geographic divisions with only the Pacific Division reporting fewer meningococcal infections in 1968 than in 1967 (Table 1).

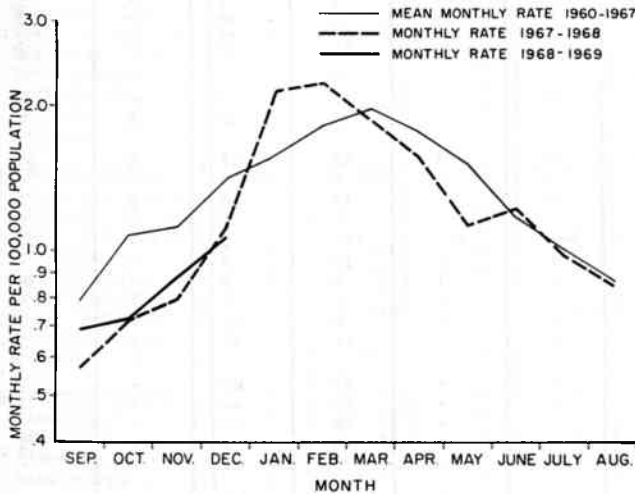
The peak incidence occurred in February of the epidemiologic year 1967-68 which is earlier than the mean peak for the years 1960-67 (Figure 3). The incidence of meningococcal infections in the United States for each

**Table 1**  
Percentage of Total Reported Meningococcal Infections by U.S. Geographic Divisions

Division	1966	1967	1968*
New England	5	4	5
Middle Atlantic	13	16	18
East North Central	15	14	13
West North Central	5	5	6
South Atlantic	18	20	20
East South Central	9	8	9
West South Central	13	12	14
Mountain	3	2	2
Pacific	19	19	13
Total (Percent)	100	100	100
Total U.S. Cases	3,381	2,164	2,516

\*Through December 28, 1968

**Figure 3**  
MENINGOCOCCAL INFECTIONS, UNITED STATES:  
MEAN MONTHLY RATES 1960-67 AND MONTHLY RATES  
1967-68 AND SEPTEMBER-DECEMBER 1968-69



**Table 2**  
Meningococcal Strains Submitted to NCDC

Serotype	1966		1967		1968	
	Number	Percent	Number	Percent	Number	Percent
A	2	.3	2	0.5	0	0.0
B	598	70.6	242	66.0	246	47.4
C	98	12.6	76	20.7	196	37.8
D	2	.3	0	0.0	0	0.0
X	---	---	1	0.3	2	0.4
Y	---	---	27	7.4	24	4.6
Z	---	---	8	2.2	4	0.8
Not typed or nontypable	126	16.3	11	2.9	47	9.0
Total	776	100.0	367	100.0	519	100.0

\*This antiserum not used to group isolates in 1966.

of the first 4 months (September-December) of the current epidemiologic year, closely parallels that of the preceding year.

Serogroups B and C were the predominant isolates of the 519 isolates of *Neisseria meningitidis* from blood or cerebrospinal fluid submitted to NCDC for serotyping or sulfonamide sensitivity testing in 1968 (Table 2). The percentage of serogroup C isolates was approximately twice that of 1967 and three times that of 1966, while serogroup B strains declined from 70.6 in 1966 to 47.4 percent in 1968.

Almost half of the 1968 isolates tested were inhibited by 1.0 mg percent or less of sulfadiazine (Table 3). About 60 percent of group B and about 23 percent of group C isolates were inhibited at this concentration. Compared with the 2 previous years, this is a striking increase in sulfadiazine resistance among the organisms of serogroup C submitted for antibiotic sensitivity testing.

(Reported by the Bacterial Diseases Section and Statistics Section, Epidemiology Program, and the Bacterial Reference Unit and Bacterial Serology Unit, Laboratory Program, NCDC.)

**Table 3**  
Percentage of Strains Inhibited at or below 1.0 mg Percent Sulfadiazine

Year	Total		Group B		Group C		All Others	
	Strains Tested	Percent Inhibited	Strains Tested	Percent Inhibited	Strains Tested	Percent Inhibited	Strains Tested	Percent Inhibited
1966	754	59.3	537	52.4	92	84.9	125	70.4
1967	317	56.2	209	49.3	61	62.3	47	78.7
1968	519	49.5	246	59.7	196	23.0	77	84.4

**EPIDEMIOLOGIC NOTES AND REPORTS**  
**TRICHINOSIS - Mississippi**

During December 1968 and January 1969, the mother, two sons, and daughter-in-law of a farming family of 10 who live in Washington County, Mississippi, were hos-

pitalized with a disease characterized by fever, muscle aches, vomiting, and diarrhea. The older son had severe

(Continued on page 44)

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED  
FEBRUARY 1, 1969 AND FEBRUARY 3, 1968 (5th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post- Infectious	Serum	Infectious		1969	Cum. 1969
				1969	1968	1969	1969	1969	1968		
UNITED STATES...	27	-	3	19	7	3	173	859	820	50	202
NEW ENGLAND.....	-	-	-	1	1	-	4	88	31	9	15
Maine*.....	-	-	-	-	-	-	-	6	1	-	-
New Hampshire*.....	-	-	-	-	-	-	-	1	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	-	-	-	1	1	-	1	49	15	9	15
Rhode Island.....	-	-	-	-	-	-	-	19	9	-	-
Connecticut.....	-	-	-	-	-	-	3	13	6	-	-
MIDDLE ATLANTIC.....	-	-	-	4	1	-	104	134	82	2	7
New York City.....	-	-	-	-	-	-	30	54	7	-	-
New York, up-State.....	-	-	-	3	-	-	65	35	29	-	1
New Jersey.....	-	-	-	-	-	-	8	32	29	-	1
Pennsylvania.....	-	-	-	1	1	-	1	13	17	2	5
EAST NORTH CENTRAL...	2	-	-	4	2	1	8	157	139	6	12
Ohio.....	1	-	-	2	-	1	1	82	28	-	1
Indiana.....	-	-	-	-	-	-	-	6	10	-	-
Illinois.....	-	-	-	-	-	-	1	15	55	1	1
Michigan.....	1	-	-	2	-	-	6	46	37	4	9
Wisconsin.....	-	-	-	-	2	-	-	8	9	1	1
WEST NORTH CENTRAL...	-	-	1	-	-	-	3	40	54	3	14
Minnesota.....	-	-	-	-	-	-	3	9	9	-	-
Iowa.....	-	-	-	-	-	-	-	11	10	-	3
Missouri.....	-	-	1	-	-	-	-	12	23	2	2
North Dakota.....	-	-	-	-	-	-	-	-	-	-	-
South Dakota.....	-	-	-	-	-	-	-	1	-	-	-
Nebraska.....	-	-	-	-	-	-	-	1	2	-	1
Kansas.....	-	-	-	-	-	-	-	6	10	1	8
SOUTH ATLANTIC.....	4	-	-	1	-	-	1	62	57	4	55
Delaware.....	-	-	-	-	-	-	-	1	3	-	-
Maryland.....	-	-	-	-	-	-	-	13	10	1	1
Dist. of Columbia..	-	-	-	-	-	-	-	-	1	-	-
Virginia.....	-	-	-	-	-	-	-	-	2	-	2
West Virginia*.....	-	-	-	1	-	-	-	10	3	-	-
North Carolina.....	1	-	-	-	-	-	1	7	6	-	38
South Carolina.....	-	-	-	-	-	-	-	8	-	2	8
Georgia.....	-	-	-	-	-	-	-	6	21	-	3
Florida.....	3	-	-	-	-	-	-	17	11	1	3
EAST SOUTH CENTRAL...	2	-	-	-	-	-	-	45	88	-	2
Kentucky.....	-	-	-	-	-	-	-	13	44	-	1
Tennessee.....	-	-	-	-	-	-	-	18	29	-	-
Alabama.....	1	-	-	-	-	-	-	6	4	-	1
Mississippi.....	1	-	-	-	-	-	-	8	11	-	-
WEST SOUTH CENTRAL...	2	-	2	-	1	-	5	78	75	1	5
Arkansas.....	-	-	-	-	-	-	-	13	-	-	2
Louisiana.....	-	-	-	-	-	-	2	16	13	1	3
Oklahoma.....	-	-	-	-	-	-	-	2	17	-	-
Texas.*.....	2	-	2	-	1	-	3	47	45	-	-
MOUNTAIN.....	6	-	-	-	1	-	1	34	28	4	19
Montana*.....	-	-	-	-	-	-	-	2	6	-	-
Idaho.....	-	-	-	-	-	-	-	1	1	-	-
Wyoming.....	-	-	-	-	-	-	-	-	-	-	-
Colorado.....	1	-	-	-	1	-	-	11	5	3	17
New Mexico.....	5	-	-	-	-	-	-	1	7	-	1
Arizona.....	-	-	-	-	-	-	-	14	4	1	1
Utah.....	-	-	-	-	-	-	1	5	5	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	11	-	-	9	1	2	47	221	266	21	73
Washington.....	-	-	-	-	-	-	-	19	21	-	-
Oregon.....	-	-	-	1	-	-	2	10	13	-	1
California.....	10	-	-	8	1	2	45	190	229	21	64
Alaska.....	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	-	-	-	-	-	-	2	3	-	8
Puerto Rico.....	-	-	-	-	-	-	-	20	3	-	-

\*Delayed reports: Aseptic meningitis: N.H. 1 (1969), Mont. 1 (1969)

Diphtheria: Tex. 6 (1968)

Encephalitis, primary: Mont. 1 (1969)

Hepatitis, infectious: Me. 5 (1969), N.H. 1 (1969), W. Va. 1 (1969)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 1, 1969 AND FEBRUARY 3, 1968 (5th WEEK) CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA	
	1969	Cumulative		1969	Cumulative			1969	Total	Paralytic		
		1969	1968		1969	1968				1969		Cum. 1969
UNITED STATES...	425	1,549	2,339	67	377	415	2,129	1	1	1	549	
NEW ENGLAND.....	24	59	81	-	14	21	320	1	1	1	42	
Maine*.....	-	2	7	-	1	2	28	1	1	1	2	
New Hampshire*.....	-	1	10	-	-	2	7	-	-	-	7	
Vermont.....	-	-	-	-	-	1	39	-	-	-	-	
Massachusetts*.....	8	17	32	-	6	8	104	-	-	-	16	
Rhode Island*.....	-	-	1	-	2	1	45	-	-	-	1	
Connecticut.....	16	39	31	-	5	7	97	-	-	-	16	
MIDDLE ATLANTIC.....	110	455	278	3	50	39	87	-	-	-	35	
New York City.....	79	292	44	1	8	2	37	-	-	-	16	
New York, Up-State.....	2	38	174	-	11	3	NN	-	-	-	11	
New Jersey.....	9	56	45	-	18	18	50	-	-	-	8	
Pennsylvania.....	20	69	15	2	13	16	NN	-	-	-	-	
EAST NORTH CENTRAL...	36	143	693	9	57	45	466	-	-	-	155	
Ohio.....	10	22	81	3	15	12	39	-	-	-	11	
Indiana.....	3	29	102	1	7	8	14	-	-	-	7	
Illinois.....	6	15	317	-	6	8	42	-	-	-	9	
Michigan.....	-	13	41	4	25	14	98	-	-	-	68	
Wisconsin.....	17	64	152	1	4	3	273	-	-	-	60	
WEST NORTH CENTRAL...	7	41	53	2	20	23	256	-	-	-	49	
Minnesota.....	-	-	-	-	5	4	13	-	-	-	1	
Iowa.....	6	20	17	-	2	1	188	-	-	-	48	
Missouri.....	-	-	4	2	8	4	2	-	-	-	-	
North Dakota.....	1	1	19	-	-	1	22	-	-	-	-	
South Dakota.....	-	-	3	-	-	3	NN	-	-	-	-	
Nebraska.....	-	20	7	-	2	1	29	-	-	-	-	
Kansas.....	-	-	3	-	3	9	2	-	-	-	-	
SOUTH ATLANTIC.....	62	262	198	11	70	98	140	-	-	-	58	
Delaware.....	-	1	-	-	3	-	6	-	-	-	9	
Maryland.....	-	1	12	2	7	7	11	-	-	-	6	
Dist. of Columbia..	-	-	4	1	1	2	-	-	-	-	-	
Virginia.....	-	29	36	-	7	9	-	-	-	-	-	
West Virginia.....	2	23	55	-	2	3	54	-	-	-	16	
North Carolina.....	-	5	11	1	10	19	NN	-	-	-	-	
South Carolina.....	9	22	5	3	9	18	30	-	-	-	14	
Georgia.....	-	-	2	1	12	13	-	-	-	-	-	
Florida.....	51	181	73	3	19	27	39	-	-	-	13	
EAST SOUTH CENTRAL...	4	23	49	3	16	31	71	-	-	-	20	
Kentucky.....	-	6	10	-	6	8	16	-	-	-	5	
Tennessee.....	1	4	15	2	9	12	24	-	-	-	14	
Alabama.....	-	-	16	1	1	1	28	-	-	-	1	
Mississippi.....	3	13	8	-	-	10	3	-	-	-	-	
WEST SOUTH CENTRAL...	145	410	460	16	45	113	230	-	-	-	42	
Arkansas.....	2	2	-	-	-	3	3	-	-	-	-	
Louisiana.....	-	-	1	6	18	26	4	-	-	-	-	
Oklahoma.....	-	1	42	1	2	31	-	-	-	-	-	
Texas.....	143	407	417	9	25	53	223	-	-	-	42	
MOUNTAIN.....	12	68	95	2	14	4	156	-	-	-	39	
Montana.....	-	-	2	-	-	1	25	-	-	-	1	
Idaho.....	-	-	6	-	2	1	-	-	-	-	1	
Wyoming.....	-	-	20	-	-	-	-	-	-	-	-	
Colorado.....	-	2	37	-	-	1	34	-	-	-	16	
New Mexico.....	-	9	11	-	4	-	47	-	-	-	3	
Arizona.....	12	56	17	2	5	1	48	-	-	-	18	
Utah.....	-	-	-	-	1	-	2	-	-	-	-	
Nevada.....	-	1	2	-	2	-	-	-	-	-	-	
PACIFIC.....	25	88	432	21	91	41	403	-	-	-	109	
Washington.....	4	6	112	1	3	6	83	-	-	-	18	
Oregon.....	5	25	114	2	3	3	27	-	-	-	10	
California.....	14	54	192	17	82	32	279	-	-	-	75	
Alaska.....	2	3	-	-	-	-	3	-	-	-	-	
Hawaii.....	-	-	14	1	3	-	11	-	-	-	6	
Puerto Rico.....	16	46	23	-	2	-	25	-	-	-	1	

\*Delayed reports: Measles: Mass. delete 3 (1969), R.I. 29 (1968)  
Meningococcal infections: N.J. delete 1 (1969)  
Mumps: Me. 3 (1969)  
Rubella: Me. 1 (1969), N.H. 1 (1969)

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 1, 1969 AND FEBRUARY 3, 1968 (5th WEEK) CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
		1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969	Cum. 1969	1969
UNITED STATES...	10,668	1	7	2	9	4	19	-	1	47	262
NEW ENGLAND.....	1,688	-	-	-	-	-	-	-	-	-	2
Maine*.....	16	-	-	-	-	-	-	-	-	-	1
New Hampshire*.....	65	-	-	-	-	-	-	-	-	-	-
Vermont.....	29	-	-	-	-	-	-	-	-	-	1
Massachusetts.....	275	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	210	-	-	-	-	-	-	-	-	-	-
Connecticut.....	1,093	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	501	-	-	1	1	-	2	-	-	1	2
New York City.....	19	-	-	1	1	-	1	-	-	-	-
New York, Up-State.....	350	-	-	-	-	-	1	-	-	1	2
New Jersey.....	NN	-	-	-	-	-	-	-	-	-	-
Pennsylvania*.....	132	-	-	-	-	-	-	-	-	-	-
EAST NORTH CENTRAL...	825	-	2	-	-	-	-	-	-	1	12
Ohio.....	332	-	-	-	-	-	-	-	-	-	1
Indiana.....	106	-	-	-	-	-	-	-	-	-	3
Illinois.....	18	-	1	-	-	-	-	-	-	-	1
Michigan.....	254	-	1	-	-	-	-	-	-	-	-
Wisconsin.....	115	-	-	-	-	-	-	-	-	1	7
WEST NORTH CENTRAL...	439	-	-	-	1	-	-	-	-	10	38
Minnesota.....	31	-	-	-	-	-	-	-	-	3	7
Iowa.....	105	-	-	-	-	-	-	-	-	-	7
Missouri.....	14	-	-	-	1	-	-	-	-	4	14
North Dakota.....	81	-	-	-	-	-	-	-	-	3	9
South Dakota.....	52	-	-	-	-	-	-	-	-	-	-
Nebraska.....	106	-	-	-	-	-	-	-	-	-	-
Kansas.....	50	-	-	-	-	-	-	-	-	-	1
SOUTH ATLANTIC.....	832	-	1	-	2	-	2	-	-	9	76
Delaware.....	23	-	-	-	-	-	-	-	-	-	-
Maryland.....	194	-	-	-	-	-	-	-	-	-	-
Dist. of Columbia..	-	-	1	-	-	-	-	-	-	-	-
Virginia.....	---	---	---	---	---	---	---	---	---	---	47
West Virginia.....	253	-	-	-	2	-	-	-	-	5	12
North Carolina.....	26	-	-	-	-	-	1	-	-	-	-
South Carolina.....	214	-	-	-	-	-	1	-	-	-	-
Georgia.....	2	-	-	-	-	-	-	-	-	2	7
Florida.....	120	-	-	-	-	-	-	-	-	2	10
EAST SOUTH CENTRAL...	1,813	-	-	-	2	-	2	-	1	8	58
Kentucky.....	227	-	-	-	-	-	-	-	-	6	37
Tennessee.....	1,374	-	-	-	2	-	2	-	1	1	15
Alabama.....	92	-	-	-	-	-	-	-	-	1	6
Mississippi.....	120	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL...	862	1	2	-	1	-	3	-	-	6	32
Arkansas.....	16	-	-	-	-	-	3	-	-	1	2
Louisiana.....	7	-	1	-	-	-	-	-	-	-	3
Oklahoma.....	29	1	1	-	1	-	-	-	-	3	4
Texas.....	810	-	-	-	-	-	-	-	-	2	23
MOUNTAIN.....	2,855	-	-	1	2	3	5	-	-	1	11
Montana.....	29	-	-	-	-	-	-	-	-	-	-
Idaho.....	254	-	-	-	-	-	-	-	-	-	-
Wyoming.....	535	-	-	-	-	-	-	-	-	-	3
Colorado.....	1,611	-	-	-	-	-	1	-	-	1	1
New Mexico.....	142	-	-	-	1	-	-	-	-	-	4
Arizona.....	112	-	-	-	-	3	3	-	-	-	-
Utah.....	172	-	-	1	1	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	853	-	2	-	-	1	5	-	-	11	31
Washington.....	229	-	-	-	-	-	-	-	-	-	-
Oregon.....	109	-	-	-	-	-	-	-	-	-	-
California.....	490	-	2	-	-	1	5	-	-	11	31
Alaska.....	25	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	4	-	-	-	-	-	-	-	-	-	1

\*Delayed reports: SST: Me. 13 (1969), N.H. 1 (1969)

Tularemia: Pa. 3 (1968)

# Morbidity and Mortality Weekly Report

43

Week No. 5 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 1, 1969

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
<b>NEW ENGLAND:</b>	719	450	70	21	<b>SOUTH ATLANTIC:</b>	1,375	692	113	90
Boston, Mass.-----	237	132	24	8	Atlanta, Ga.-----	95	48	11	7
Bridgeport, Conn.-----	41	27	7	1	Baltimore, Md.-----	289	145	12	14
Cambridge, Mass.-----	24	16	5	-	Charlotte, N. C.-----	56	30	6	5
Fall River, Mass.-----	23	17	-	-	Jacksonville, Fla.-----	104	49	7	6
Hartford, Conn.-----	56	30	3	2	Miami, Fla.-----	125	62	7	4
Lowell, Mass.-----	21	14	2	1	Norfolk, Va.-----	77	34	11	7
Lynn, Mass.-----	25	19	1	-	Richmond, Va.-----	85	36	3	4
New Bedford, Mass.-----	24	19	1	1	Savannah, Ga.-----	54	22	16	1
New Haven, Conn.-----	50	36	3	2	St. Petersburg, Fla.-----	113	89	12	1
Providence, R. I.-----	55	32	2	1	Tampa, Fla.-----	102	60	13	9
Somerville, Mass.-----	20	14	3	-	Washington, D. C.-----	238	94	14	32
Springfield, Mass.-----	53	38	10	-	Wilmington, Del.-----	37	23	1	-
Waterbury, Conn.-----	30	20	1	3					
Worcester, Mass.-----	60	36	8	2	<b>EAST SOUTH CENTRAL:</b>	808	451	80	41
					Birmingham, Ala.-----	107	54	4	4
<b>MIDDLE ATLANTIC:</b>	3,513	2,098	200	165	Chattanooga, Tenn.-----	57	34	8	1
Albany, N. Y.-----	44	22	2	1	Knoxville, Tenn.-----	63	43	8	-
Allentown, Pa.-----	32	20	4	1	Louisville, Ky.-----	153	93	20	6
Buffalo, N. Y.-----	147	82	5	10	Memphis, Tenn.-----	152	71	10	14
Camden, N. J.-----	51	24	6	6	Mobile, Ala.-----	62	41	5	3
Elizabeth, N. J.-----	37	22	1	2	Montgomery, Ala.-----	69	39	12	6
Erie, Pa.-----	54	33	7	7	Nashville, Tenn.-----	145	76	13	7
Jersey City, N. J.-----	140	75	10	6					
Newark, N. J.-----	88	53	4	4	<b>WEST SOUTH CENTRAL:</b>	1,426	694	100	84
New York City, N. Y.-----	1,734	1,020	85	82	Austin, Tex.-----	54	30	7	2
Paterson, N. J.-----	29	16	4	1	Baton Rouge, La.-----	41	24	5	2
Philadelphia, Pa.-----	494	297	14	18	Corpus Christi, Tex.-----	34	16	5	2
Pittsburgh, Pa.-----	203	123	20	9	Dallas, Tex.-----	200	95	13	9
Reading, Pa.-----	58	49	6	1	El Paso, Tex.-----	44	24	5	4
Rochester, N. Y.-----	113	76	16	8	Fort Worth, Tex.-----	109	45	6	10
Schenectady, N. Y.-----	33	23	2	-	Houston, Tex.-----	315	119	16	28
Scranton, Pa.-----	34	20	3	-	Little Rock, Ark.-----	87	53	10	4
Syracuse, N. Y.-----	92	59	1	3	New Orleans, La.-----	171	94	4	5
Trenton, N. J.-----	49	28	1	2	Oklahoma City, Okla.-----	106	55	6	5
Utica, N. Y.-----	36	28	5	1	San Antonio, Tex.-----	148	78	8	8
Yonkers, N. Y.-----	45	28	4	3	Shreveport, La.-----	62	29	8	2
					Tulsa, Okla.-----	55	32	7	3
<b>EAST NORTH CENTRAL:</b>	2,718	1,516	117	141	<b>MOUNTAIN:</b>	474	275	33	24
Akron, Ohio-----	70	37	1	1	Albuquerque, N. Mex.-----	44	24	4	-
Canton, Ohio-----	35	19	2	1	Colorado Springs, Colo.-----	42	19	6	5
Chicago, Ill.-----	735	374	17	43	Denver, Colo.-----	121	72	11	5
Cincinnati, Ohio-----	218	119	12	10	Ogden, Utah-----	18	8	2	2
Cleveland, Ohio-----	226	122	6	11	Phoenix, Ariz.-----	96	60	3	5
Columbus, Ohio-----	134	80	8	7	Pueblo, Colo.-----	22	16	3	2
Dayton, Ohio-----	81	50	7	3	Salt Lake City, Utah-----	62	40	1	2
Detroit, Mich.-----	314	187	12	10	Tucson, Ariz.-----	69	36	3	3
Evansville, Ind.-----	34	23	3	-					
Flint, Mich.-----	44	29	-	4	<b>PACIFIC:</b>	1,956	1,188	130	63
Fort Wayne, Ind.-----	40	23	1	2	Berkeley, Calif.-----	24	14	1	-
Gary, Ind.-----	40	21	3	2	Fresno, Calif.-----	53	31	6	-
Grand Rapids, Mich.-----	72	41	10	5	Glendale, Calif.-----	42	27	3	-
Indianapolis, Ind.-----	185	98	3	15	Honolulu, Hawaii-----	69	34	7	2
Madison, Wis.-----	37	21	5	5	Long Beach, Calif.-----	113	60	12	5
Milwaukee, Wis.-----	136	86	4	6	Los Angeles, Calif.-----	627	386	47	13
Peoria, Ill.-----	34	17	8	7	Oakland, Calif.-----	119	64	9	6
Rockford, Ill.-----	40	22	2	3	Pasadena, Calif.-----	41	27	1	2
South Bend, Ind.-----	47	28	3	2	Portland, Oreg.-----	169	104	8	5
Toledo, Ohio-----	126	74	8	2	Sacramento, Calif.-----	67	44	-	3
Youngstown, Ohio-----	70	45	2	2	San Diego, Calif.-----	149	100	11	6
					San Francisco, Calif.-----	189	110	6	8
<b>WEST NORTH CENTRAL:</b>	928	577	59	36	San Jose, Calif.-----	46	28	1	3
Des Moines, Iowa-----	60	39	6	1	Seattle, Wash.-----	141	85	10	9
Duluth, Minn.-----	36	18	3	3	Spokane, Wash.-----	58	39	4	1
Kansas City, Kans.-----	52	30	4	4	Tacoma, Wash.-----	49	35	4	-
Kansas City, Mo.-----	151	96	6	8					
Lincoln, Nebr.-----	32	19	4	-	<b>Total</b>	<b>13,917</b>	<b>7,941</b>	<b>902</b>	<b>665</b>
Minneapolis, Minn.-----	135	91	4	7					
Omaha, Nebr.-----	77	44	1	1					
St. Louis, Mo.-----	244	146	18	8					
St. Paul, Minn.-----	91	59	4	3					
Wichita, Kans.-----	50	35	9	1					

Cumulative Totals  
including reported corrections for previous weeks

All Causes, All Ages-----	79,755
All Causes, Age 65 and over-----	45,836
Pneumonia and Influenza, All Ages-----	6,752
All Causes, Under 1 Year of Age-----	3,511

## TRICHINOSIS - (Continued from page 39)

muscle cramps with periodic contractures and generalized edema, and the other son and daughter-in-law had moderate muscle soreness. All had eosinophilia, the mother and two sons had periorbital edema, and EKG changes were noted in the mother's electrocardiogram.

Preliminary epidemiologic investigation revealed that on December 14, the family had killed and smoke cured one of three hogs that had been bought as weanlings and allowed to run loose during most of the fattening period. On December 15, the mother tasted some of the pork as she ground and seasoned it for sausage patties. On December 24, she became ill. On December 21, the sausage was reground by the two sons who became ill on December 29. The daughter-in-law, who took over the family cooking when the mother became ill, developed illness herself on January 12. These four persons were apparently the only ones who had contact with the raw sausage. To date, no other known illnesses have occurred among other family members, relatives, or a neighbor who ate several meals which included well-cooked ham, pork chops, and sausage from the slaughtered pig.

The charcoal card test for trichinosis was performed on the four patients' sera. The mother and older son had positive tests; the other two were negative. The pepsin-hydrochloric acid digestion test on leftover ham from the Christmas Eve dinner revealed in excess of 500 dead trichina larvae per gram of tissue. Results of the digestion test on the sausage are pending.

The remainder of the slaughtered pig was turned over to the state for disposal and the two other pigs were quarantined by the state board of animal health.

(Reported by Durward L. Blakey, M.D., M.P.H., Director, Division of Preventable Disease Control, Vernon D. Chadwick, D.V.M., State Veterinarian, and Peter Fussell, Field Investigator, Mississippi State Board of Health; George Cox, Sanitarian, Washington County Health Department; and Robert Watson, D.V.M., Assistant Professor of Preventive Medicine, and W. Forest Hutchison, Ph.D., Associate Professor of Preventive Medicine, Department of Preventive Medicine, and Doty Murphy, M.D., University Hospital, University of Mississippi.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER  
DAVID J. SENCER, M.D.  
CHIEF, EPIDEMIOLOGY PROGRAM  
A. D. LANGMUIR, M.D.  
CHIEF, STATISTICS SECTION  
IDA L. SHERMAN, M.S.  
EDITOR  
MICHAEL B. GREGG, M.D.  
MANAGING EDITOR  
PRISCILLA B. HOLMAN

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

NATIONAL COMMUNICABLE DISEASE CENTER  
ATLANTA, GEORGIA 30333  
ATTN: THE EDITOR  
MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

U. S. DEPARTMENT OF  
HEALTH, EDUCATION, AND WELFARE  
PUBLIC HEALTH SERVICE  
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
NATIONAL  
COMMUNICABLE DISEASE CENTER  
ATLANTA, GEORGIA 30333  
OFFICIAL BUSINESS

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF H. E. W.