



Morbidity and Mortality

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SURVEILLANCE SUMMARY FOODBORNE DISEASE OUTBREAKS - 1968

During 1968, 345 outbreaks of food poisoning affecting 17,567 people (Table 1) were reported from 42 states (Figure 1). By contrast, in 1967 only 204 outbreaks were reported from 41 states but 22,102 persons were affected.* In 1968, staphylococcal food poisoning was the most commonly reported type and accounted for nearly 25 percent of all outbreaks and 25 percent of the cases. In 1967, staphylococcal enterotoxins also accounted for approximately 25 percent of outbreaks but for only 9 percent of cases. In 1968, *Clostridium perfringens* food poisoning was the second most commonly reported type and represented 16 percent of total outbreaks and 34 percent of cases. In 1967, the percentages were 14 and 16, respectively. In 1968, salmonella accounted for 12 percent of the reported outbreaks and 7 percent of cases, a decrease from 1967 when it accounted for 19 percent of outbreaks and 60 percent of cases. The high percentage

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of cases due to salmonella in 1967 reflected several large outbreaks, one of which affected 9,000 individuals.

In confirmed outbreaks, attack rates were exceedingly high (≥ 80 percent) for *Escherichia coli* and chemical food poisoning, moderately high (>20 percent) for *C. perfringens*, salmonella, shigella, staphylococcal, and streptococcal food poisoning, and low (<10 percent) for hepatitis food poisoning.

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

DISEASE	12th WEEK ENDED		MEDIAN 1964 - 1968	CUMULATIVE, FIRST 12 WEEKS		
	March 22, 1969	March 23, 1968		1969	1968	MEDIAN 1964 - 1968
Aseptic meningitis	32	27	27	350	327	335
Brucellosis	2	7	6	19	19	46
Diphtheria	3	8	6	32	36	36
Encephalitis, primary:						
Arthropod-borne & unspecified	19	12	28	236	172	281
Encephalitis, post-infectious	10	12	17	58	105	152
Hepatitis, serum	98	82	933	1,191	826	9,988
Hepatitis, infectious	1,011	868		11,048	9,892	
Malaria	56	40	5	553	531	68
Measles (rubeola)	808	928	9,479	5,878	7,136	85,084
Meningococcal infections, total	118	38	79	987	920	920
Civilian	106	36	---	928	839	---
Military	12	2	---	59	81	---
Mumps	3,046	5,295	---	28,358	60,932	---
Polio myelitis, total	---	4	1	1	14	5
Paralytic	---	4	1	1	14	4
Rubella (German measles)	2,381	1,700	---	11,818	12,302	---
Streptococcal sore throat & scarlet fever	12,750	11,831	11,974	139,744	138,745	138,745
Tetanus	4	3	2	22	25	34
Tularemia	---	1	3	23	17	49
Typhoid fever	2	7	5	47	49	63
Typhus, tick-borne (Rky. Mt. spotted fever)	---	---	---	1	3	6
Rabies in animals	73	76	96	828	872	958

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	---	Rabies in man:	---
Botulism:	2	Rubella congenital syndrome: Colo. - 1	2
Leptospirosis: Calif. - 1	11	Trichinosis: N.Y.C. - 2	19
Plague:	---	Typhus, murine: Ohio - 1	3
Psittacosis:	6		

Data exclude report from Maryland.

FOODBORNE DISEASE OUTBREAKS - (Continued from front page)

Table 1
Division by Specific Etiology of Reported Outbreaks and Cases of Foodborne Illness - 1967-1968

	1967				1968			
	Number Total Outbreaks	Percent	Total Number Patients	Percent	Number Total Outbreaks	Percent	Number Total Patients	Percent
BACTERIAL	140	68.1	19,757	89.4	220	69.2	14,617	83.2
Brucella	1	.1	2	0	4	1.2	12	.1
<i>C. botulinum</i>	3	1.5	6	0	9	2.6	10	.1
<i>C. perfringens</i>	28	13.7	3,492	15.8	56	16.2	5,966	34.0
<i>E. coli</i>	5	2.5	819	3.7	6	1.7	1,234	7.0
Salmonella	39	18.9	12,889	58.3	42	12.2	1,287	7.3
Shigella	6	2.9	586	2.7	6	1.7	407	2.3
Staphylococcus	53	26.0	1,912	8.7	82	23.8	4,419	25.1
Streptococcus	5	2.5	51	.2	15	4.4	1,282	7.3
PARASITIC	3	1.5	8	0	9	2.6	82	.5
<i>Trichinella spiralis</i>	3	1.5	8	0	9	2.6	82	.5
VIRAL	9	4.4	196	.9	6	1.7	238	1.4
Hepatitis	9	4.4	196	.9	6	1.7	238	1.4
CHEMICAL	6	2.9	32	.1	22	6.4	113	.6
Miscellaneous	6	2.6	331	1.0	3	.9	76	.4
Unknown	40	19.6	1,878	8.5	85	24.6	2,441	13.9
Total	204	100.0	22,102	100.0	345	100.0	17,567	100.0

In 1968, as in 1967, the three most commonly incriminated vehicles were beef, pork, and turkey (Table 2). Milk and waterborne outbreaks continued to be fewer than foodborne outbreaks (Figure 2). Over 43 percent of the vehicles were mishandled in food service establishments, 6 percent were mishandled in food processing establishments, and about 9 percent were mishandled in homes. However, in approximately 40 percent of the outbreaks, the site of mishandling could not be determined (Table 3).

Although the majority of foodborne outbreaks (60 percent) occurred in homes and restaurants, those included

Figure 2
RELATIVE IMPORTANCE OF FOODBORNE vs MILK- AND WATER-BORNE DISEASE OUTBREAKS IN THE UNITED STATES, 1938-1968

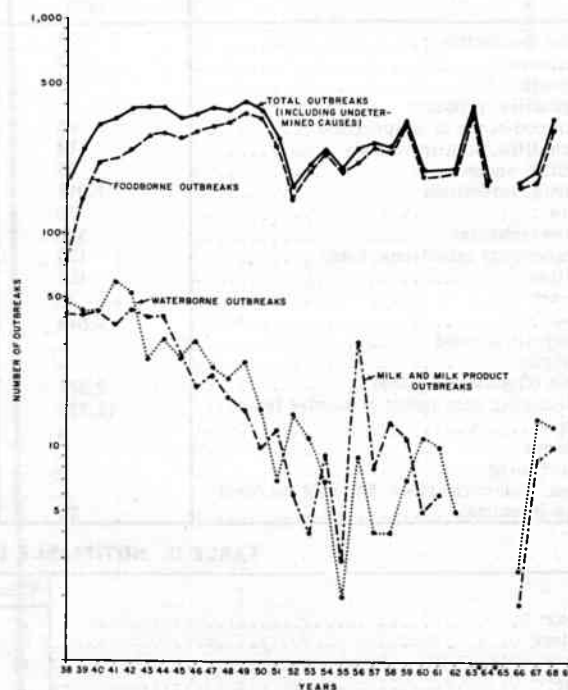
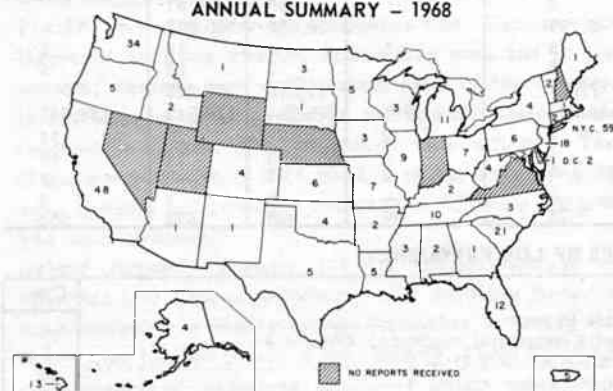


Figure 1
NUMBER OF OUTBREAKS* OF FOODBORNE ILLNESS BY STATE
ANNUAL SUMMARY - 1968



* DATA INCOMPLETE

Table 2
Vehicles Associated With Foodborne Illness of Specific Etiology¹ 1968 and Total Outbreaks 1967

	Turkey*	Chicken*	Egg	Milk	Beef*	Pork	Other Meat	Vegetable and fruit	Shellfish	Other fish	Water	Other	Unknown
BACTERIAL													
<i>Brucella</i>				4									
<i>C. botulinum</i>		2			1		1	2		1			2
<i>C. perfringens</i> ²	17	6			24	2	1	3	1	3		2	2
<i>E. coli</i>			1				1				3	1	
<i>Salmonella</i> ³	10	2	4		4	4	1	6	1		2	4	6
<i>Shigella</i> ⁵		2						2					3
<i>Staphylococcus</i> ⁴	8	6	3	4	13	24	2	9	4	3		8	6
<i>Streptococcus</i> ³	1		3		4	3	1	3	1				1
PARASITIC													
<i>Trichinella spiralis</i>					1	7	1						
VIRAL													
Hepatitis				1							4	1	
CHEMICAL ⁵													
Miscellaneous		2	1		2	1		3		3	2	9	
Unknown ⁶	7	6	4	1	15	10	2	7	5	4	2	3	23
Total 1968	43	26	16	11	65	52	10	35	12	14	13	28	43
Total 1967	16	7	5	9	35	13	14	11	9	10	15	29	43

1. Includes suspected as well as proven vehicles.

2. 5 outbreaks with 2 vehicles.

3. 2 outbreaks with 2 vehicles.

4. 6 outbreaks with 2 vehicles and 1 outbreak with 3 vehicles.

5. 1 outbreak with 2 vehicles.

6. 4 outbreaks with 2 vehicles.

* Includes some outbreaks due to meat and/or gravy and/or dressing.

Table 3
Place Where Food Was Mishandled in Foodborne Outbreaks Reported By Specific Etiology - 1968

	Food Processing Establishments	Food Service Establishments	Homes	Unknown - Unspecified
BACTERIAL				
<i>Brucella</i>		1	3	
<i>C. botulinum</i>	2*		3	4
<i>C. perfringens</i>	2	18	2	34
<i>E. coli</i>	1	3	1	1
<i>Salmonella</i>	3	16	4	19
<i>Shigella</i>		3		3
<i>Staphylococcus</i>	1	43	3	35
<i>Streptococcus</i>		13		2
PARASITIC				
<i>Trichinella spiralis</i>	5	1	3	
VIRAL				
Hepatitis	1	2	2	1
CHEMICAL				
Miscellaneous	1	12	2	7
Total	16	114	24	106

* 1 vehicle suspected, not proven

only 28 percent of the total people ill. While food poisoning in schools accounted for 13 percent of the outbreaks, nearly 40 percent of all persons affected were school children. Illness due to *brucella*, *C. botulinum*, and *Trichinella spiralis* tended to occur at home, that due to *C. perfringens* away from home, and that due to *S. aureus* in public facilities (Table 4). Although the monthly incidence of food poisoning appears to be rather uniform an expected rise in staphylococcal food poisoning during the summer months was noted (Table 5).

Table 4
Places of Acquisition of Foodborne Illness of Specific Etiology and Total Outbreaks and Cases 1967-1968

	Home	Restaurant	Bar/Club	School	Work	Hotel	Other	Unknown	Total
BACTERIAL									
<i>Brucella</i>	3	1							4
<i>C. botulinum</i>	2	1							3
<i>C. perfringens</i>	6	28	9	18	1	1	2	1	56
<i>E. coli</i>	1	2	1						4
<i>Salmonella</i>	15	12	6	1	2	1	5		42
<i>Shigella</i>	1	1	1	1		1	1		6
<i>Staphylococcus</i>	12	27	10	10	10	2	6		82
<i>Streptococcus</i>	6	3		2	3		1		15
PARASITIC									
<i>Trichinella spiralis</i>	9								9
VIRAL									
Hepatitis				3	2		1		6
CHEMICAL									
Miscellaneous	10	8					2		20
Unknown	2						1		3
Total outbreaks-1968	86	115	35	44	23	7	24	1	335
Number of persons ill-1968	1,120	3,165	2,784	6,859	343	440	2,168	4	17,542
Total outbreaks-1967	45	57	25	35	10	5	21	6	204
Number of persons ill-1967	274	1,374	11,373	4,129	292	135	4,018	318	22,302

(Continued on page 104)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
MARCH 22, 1969 AND MARCH 23, 1968 (12th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPHTHERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post- Infectious	Serum	Infectious			
	1969	1969	1969	1969	1968	1969	1969	1969	1968	1969	Cum. 1969
UNITED STATES...	32	2	3	19	12	10	98	1,011	868	56	553
NEW ENGLAND.....	1	-	-	-	-	1	8	84	31	1	27
Maine.*.....	-	-	-	-	-	-	-	2	-	-	-
New Hampshire.....	-	-	-	-	-	-	-	4	2	-	2
Vermont.....	-	-	-	-	-	-	-	1	-	-	-
Massachusetts.....	-	-	-	-	-	1	1	37	16	-	22
Rhode Island.....	1	-	-	-	-	-	2	21	4	-	-
Connecticut.....	-	-	-	-	-	-	5	19	9	1	3
MIDDLE ATLANTIC.....	9	-	-	5	4	-	38	202	122	10	58
New York City.....	1	-	-	2	3	-	25	70	40	4	4
New York, up-State.....	2	-	-	-	-	-	3	26	30	3	13
New Jersey.*.....	6	-	-	-	-	-	8	32	28	-	17
Pennsylvania.....	-	-	-	3	1	-	2	74	24	3	24
EAST NORTH CENTRAL...	8	-	-	7	3	-	12	218	154	2	36
Ohio.....	-	-	-	1	3	-	2	49	37	1	3
Indiana.....	1	-	-	1	-	-	1	8	9	1	3
Illinois.....	4	-	-	2	-	-	3	84	44	-	16
Michigan.....	3	-	-	3	-	-	6	60	39	-	13
Wisconsin.....	-	-	-	-	-	-	-	17	25	-	1
WEST NORTH CENTRAL...	-	1	-	1	2	-	-	36	70	3	40
Minnesota.....	-	1	-	1	-	-	-	11	15	-	3
Iowa.*.....	-	-	-	-	-	-	-	5	22	1	4
Missouri.....	-	-	-	-	2	-	-	6	13	1	10
North Dakota.....	-	-	-	-	-	-	-	1	4	-	1
South Dakota.....	-	-	-	-	-	-	-	1	2	-	-
Nebraska.....	-	-	-	-	-	-	-	-	3	-	3
Kansas.....	-	-	-	-	-	-	-	12	11	1	19
SOUTH ATLANTIC.....	3	-	-	1	1	3	6	53	66	15	189
Delaware.....	-	-	-	-	-	-	1	-	5	-	1
Maryland.....	---	---	---	---	1	---	---	---	17	---	5
Dist. of Columbia..	-	-	-	-	-	-	-	-	1	-	-
Virginia.....	-	-	-	1	-	-	-	5	9	1	10
West Virginia.*.....	-	-	-	-	-	-	-	3	5	-	-
North Carolina.....	-	-	-	-	-	-	1	12	2	8	93
South Carolina.....	-	-	-	-	-	-	-	12	1	-	17
Georgia.....	-	-	-	-	-	-	-	1	4	4	50
Florida.....	3	-	-	-	-	3	4	20	22	2	13
EAST SOUTH CENTRAL...	3	1	-	-	-	1	-	53	75	8	22
Kentucky.....	3	1	-	-	-	-	-	26	33	7	17
Tennessee.....	-	-	-	-	-	1	-	17	15	-	-
Alabama.....	-	-	-	-	-	-	-	6	12	1	5
Mississippi.....	-	-	-	-	-	-	-	4	15	-	-
WEST SOUTH CENTRAL...	3	-	3	-	-	1	2	87	82	2	14
Arkansas.....	-	-	-	-	-	-	-	2	9	-	4
Louisiana.*.....	-	-	-	-	-	-	1	10	6	-	8
Oklahoma.....	-	-	-	-	-	-	-	5	9	2	2
Texas.....	3	-	3	-	-	1	1	70	58	-	-
MOUNTAIN.....	1	-	-	3	-	-	-	42	29	3	40
Montana.*.....	1	-	-	3	-	-	-	3	4	-	-
Idaho.....	-	-	-	-	-	-	-	-	3	-	1
Wyoming.....	-	-	-	-	-	-	-	1	1	-	-
Colorado.....	-	-	-	-	-	-	-	15	2	2	36
New Mexico.....	-	-	-	-	-	-	-	10	7	1	2
Arizona.....	-	-	-	-	-	-	-	6	8	-	1
Utah.....	-	-	-	-	-	-	-	7	4	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	4	-	-	2	2	4	32	236	239	12	127
Washington.....	-	-	-	-	-	-	-	25	29	1	4
Oregon.....	-	-	-	-	-	-	-	15	15	-	5
California.....	4	-	-	2	2	4	32	194	191	11	107
Alaska.....	-	-	-	-	-	-	-	1	3	-	-
Hawaii.....	-	-	-	-	-	-	-	1	1	-	11
Puerto Rico.....	-	-	-	-	-	-	-	27	16	-	-

*Delayed reports: Encephalitis, primary: Iowa 1
 Encephalitis, post-infectious: Mont. 1
 Hepatitis, infectious: Me. 3, N.J. 50, W. Va. 1, La. delete 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MARCH 22, 1969 AND MARCH 23, 1968 (12th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS	POLIOMYELITIS			RUBELLA
		Cumulative			Cumulative			Total	Paralytic		
		1969	1969		1968	1969			1968	1969	
UNITED STATES...	808	5,878	7,136	118	987	920	3,046	-	-	1	2,381
NEW ENGLAND.....	17	261	285	2	30	46	366	-	-	-	155
Maine.....	-	2	10	-	1	2	26	-	-	-	5
New Hampshire.....	-	60	47	-	-	3	5	-	-	-	8
Vermont.....	1	1	-	-	-	1	38	-	-	-	-
Massachusetts.....	7	51	118	1	15	24	161	-	-	-	69
Rhode Island.....	-	3	1	-	3	4	50	-	-	-	11
Connecticut.....	9	144	109	1	11	12	86	-	-	-	62
MIDDLE ATLANTIC.....	225	1,704	945	12	122	126	137	-	-	-	116
New York City.....	150	1,147	188	4	26	23	78	-	-	-	45
New York, Up-State.....	30	173	543	2	19	16	NN	-	-	-	27
New Jersey.....	23	202	170	3	40	46	59	-	-	-	36
Pennsylvania.....	22	182	44	3	37	41	NN	-	-	-	8
EAST NORTH CENTRAL...	140	754	1,770	13	119	96	762	-	-	-	390
Ohio.....	12	75	127	4	35	20	71	-	-	-	75
Indiana.....	59	257	281	1	21	13	179	-	-	-	76
Illinois.....	23	136	763	4	19	25	105	-	-	-	27
Michigan.....	14	78	111	2	36	29	134	-	-	-	90
Wisconsin.....	32	208	488	2	8	9	273	-	-	-	122
WEST NORTH CENTRAL...	28	191	174	4	53	40	164	-	-	-	115
Minnesota.....	-	1	6	1	9	6	2	-	-	-	4
Iowa.....	18	105	24	1	7	3	138	-	-	-	86
Missouri.....	-	11	58	-	21	8	1	-	-	-	2
North Dakota.....	-	5	55	-	-	2	12	-	-	-	16
South Dakota.....	-	-	3	-	-	4	NN	-	-	-	-
Nebraska.....	10	69	21	2	6	4	3	-	-	-	6
Kansas.....	-	-	7	-	10	13	8	-	-	-	1
SOUTH ATLANTIC.....	79	1,006	542	18	187	202	236	-	-	-	441
Delaware.....	6	22	5	-	3	1	1	-	-	-	5
Maryland.....	---	8	39	---	16	14	---	---	---	-	---
Dist. of Columbia..	-	-	4	1	3	7	-	-	-	-	-
Virginia.....	39	390	124	-	29	15	29	-	-	-	100
West Virginia.....	21	101	124	1	8	4	111	-	-	-	178
North Carolina.....	5	85	59	9	28	45	NN	-	-	-	-
South Carolina.....	2	49	8	2	28	39	20	-	-	-	12
Georgia.....	-	1	3	-	28	34	-	-	-	-	-
Florida.....	6	350	176	5	44	43	75	-	-	-	146
EAST SOUTH CENTRAL...	2	44	163	8	49	75	152	-	-	-	222
Kentucky.....	1	18	41	3	13	28	64	-	-	-	151
Tennessee.....	1	11	38	2	23	21	62	-	-	-	53
Alabama.....	-	-	39	1	8	13	26	-	-	-	4
Mississippi.....	-	15	45	2	5	13	-	-	-	-	14
WEST SOUTH CENTRAL...	242	1,469	1,778	18	134	198	417	-	-	1	366
Arkansas.....	-	2	-	-	15	10	3	-	-	-	-
Louisiana.....	-	8	1	4	37	46	-	-	-	-	1
Oklahoma.....	1	104	82	2	8	42	43	-	-	-	166
Texas.....	241	1,355	1,695	12	74	100	371	-	-	1	199
MOUNTAIN.....	39	134	341	-	27	13	242	-	-	-	85
Montana.....	-	3	54	-	2	1	13	-	-	-	1
Idaho.....	29	29	10	-	5	2	13	-	-	-	2
Wyoming.....	-	-	33	-	-	-	-	-	-	-	-
Colorado.....	-	15	123	-	6	7	37	-	-	-	59
New Mexico.....	7	48	36	-	5	-	50	-	-	-	9
Arizona.....	3	37	81	-	6	1	112	-	-	-	9
Utah.....	-	1	2	-	1	-	17	-	-	-	5
Nevada.....	-	1	2	-	2	2	-	-	-	-	-
PACIFIC.....	36	315	1,138	43	266	124	570	-	-	-	491
Washington.....	3	27	305	10	24	21	176	-	-	-	52
Oregon.....	1	37	238	-	7	11	12	-	-	-	27
California.....	29	236	574	31	227	83	289	-	-	-	378
Alaska.....	3	13	-	2	2	-	90	-	-	-	18
Hawaii.....	-	2	21	-	6	9	3	-	-	-	16
Puerto Rico.....	11	136	128	-	3	16	8	-	-	-	2

*Delayed reports: Mumps: Me. 54
Rubella: Me. 5

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MARCH 22, 1969 AND MARCH 23, 1968 (12th 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	Cum. 1969
UNITED STATES...	12,750	4	22	-	23	2	47	-	1	73	828
NEW ENGLAND.....	1,803	-	-	-	-	-	-	-	-	-	2
Maine.*.....	12	-	-	-	-	-	-	-	-	-	1
New Hampshire.....	20	-	-	-	-	-	-	-	-	-	-
Vermont.....	21	-	-	-	-	-	-	-	-	-	1
Massachusetts.....	351	-	-	-	-	-	-	-	-	-	-
Rhode Island.....	118	-	-	-	-	-	-	-	-	-	-
Connecticut.....	1,281	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC.....	611	2	4	-	1	-	7	-	-	2	14
New York City.....	28	2	2	-	1	-	5	-	-	-	-
New York, Up-State.....	417	-	2	-	-	-	1	-	-	2	14
New Jersey.*.....	NN	-	-	-	-	-	-	-	-	-	-
Pennsylvania.....	166	-	-	-	-	-	1	-	-	-	-
EAST NORTH CENTRAL...	1,971	-	3	-	2	1	3	-	-	1	35
Ohio.....	390	-	-	-	-	-	2	-	-	1	7
Indiana.....	568	-	-	-	1	-	-	-	-	-	6
Illinois.....	536	-	1	-	1	-	-	-	-	-	5
Michigan.....	329	-	2	-	-	1	1	-	-	-	1
Wisconsin.....	148	-	-	-	-	-	-	-	-	-	16
WEST NORTH CENTRAL...	421	1	1	-	3	-	-	-	-	13	143
Minnesota.....	23	-	-	-	-	-	-	-	-	3	42
Iowa.....	83	-	-	-	-	-	-	-	-	2	26
Missouri.....	11	-	-	-	3	-	-	-	-	5	48
North Dakota.....	81	-	-	-	-	-	-	-	-	3	21
South Dakota.....	15	-	-	-	-	-	-	-	-	-	-
Nebraska.....	168	-	-	-	-	-	-	-	-	-	-
Kansas.....	40	1	1	-	-	-	-	-	-	-	6
SOUTH ATLANTIC.....	1,143	-	6	-	10	-	5	-	-	21	276
Delaware.....	12	-	-	-	-	-	-	-	-	-	-
Maryland.....	---	---	---	---	---	---	1	---	---	---	---
Dist. of Columbia..	-	-	2	-	-	-	-	-	-	-	-
Virginia.....	376	-	-	-	-	-	-	-	-	11	183
West Virginia.....	334	-	-	-	2	-	-	-	-	3	35
North Carolina.....	43	-	1	-	4	-	1	-	-	-	1
South Carolina.....	133	-	1	-	-	-	1	-	-	-	-
Georgia.....	4	-	-	-	-	-	1	-	-	2	18
Florida.....	241	-	2	-	4	-	1	-	-	5	39
EAST SOUTH CENTRAL...	1,979	1	1	-	3	1	7	-	1	16	155
Kentucky.....	289	1	1	-	-	-	-	-	-	7	91
Tennessee.....	1,416	-	-	-	3	1	6	-	1	8	52
Alabama.....	166	-	-	-	-	-	-	-	-	1	12
Mississippi.....	108	-	-	-	-	-	1	-	-	-	-
WEST SOUTH CENTRAL...	1,092	-	3	-	2	-	7	-	-	11	100
Arkansas.....	23	-	-	-	-	-	4	-	-	-	4
Louisiana.....	14	-	2	-	-	-	-	-	-	2	6
Oklahoma.....	46	-	1	-	2	-	-	-	-	2	16
Texas.....	1,009	-	-	-	-	-	3	-	-	7	74
MOUNTAIN.....	2,182	-	-	-	2	-	10	-	-	2	25
Montana.....	20	-	-	-	-	-	-	-	-	-	-
Idaho.....	158	-	-	-	-	-	-	-	-	-	-
Wyoming.....	294	-	-	-	-	-	5	-	-	1	8
Colorado.....	1,114	-	-	-	-	-	1	-	-	1	2
New Mexico.....	222	-	-	-	1	-	2	-	-	-	7
Arizona.....	143	-	-	-	-	-	1	-	-	-	5
Utah.....	231	-	-	-	1	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	1	-	-	-	3
PACIFIC.....	1,548	-	4	-	-	-	8	-	-	7	78
Washington.....	482	-	-	-	-	-	-	-	-	-	-
Oregon.....	123	-	-	-	-	-	-	-	-	-	-
California.....	765	-	4	-	-	-	8	-	-	7	78
Alaska.....	114	-	-	-	-	-	-	-	-	-	-
Hawaii.....	64	-	-	-	-	-	-	-	-	-	-
Puerto Rico.....	6	-	1	-	-	1	2	-	-	-	5

*Delayed reports: SST: Me. 1

Typhoid fever: N.J. delete 1

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 22, 1969

12

(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		
NEW ENGLAND:	750	473	48	29	SOUTH ATLANTIC:	1,314	732	70	45
Boston, Mass.-----	226	133	16	10	Atlanta, Ga.-----	135	57	8	4
Bridgeport, Conn.-----	40	25	6	1	Baltimore, Md.-----	269	156	8	10
Cambridge, Mass.-----	34	23	3	1	Charlotte, N. C.-----	36	24	2	-
Fall River, Mass.-----	43	27	-	-	Jacksonville, Fla.-----	86	54	2	4
Hartford, Conn.-----	61	29	1	5	Miami, Fla.-----	115	67	-	5
Lowell, Mass.-----	31	21	1	-	Norfolk, Va.-----	62	36	4	5
Lynn, Mass.-----	21	13	-	-	Richmond, Va.-----	68	33	6	2
New Bedford, Mass.-----	32	25	2	2	Savannah, Ga.-----	40	19	6	1
New Haven, Conn.-----	51	37	1	4	St. Petersburg, Fla.-----	105	87	7	-
Providence, R. I.-----	69	42	7	4	Tampa, Fla.-----	76	42	9	4
Somerville, Mass.-----	12	8	2	-	Washington, D. C.-----	276	127	13	9
Springfield, Mass.-----	43	27	7	1	Wilmington, Del.-----	46	30	5	1
Waterbury, Conn.-----	32	28	-	-					
Worcester, Mass.-----	55	35	2	1	EAST SOUTH CENTRAL:	716	424	37	34
MIDDLE ATLANTIC:	3,441	2,095	163	145	Birmingham, Ala.-----	121	66	4	6
Albany, N. Y.-----	52	36	2	2	Chattanooga, Tenn.-----	49	27	3	4
Allentown, Pa.-----	46	32	-	-	Knoxville, Tenn.-----	43	30	2	2
Buffalo, N. Y.-----	179	96	2	8	Louisville, Ky.-----	169	103	19	9
Camden, N. J.-----	42	24	1	3	Memphis, Tenn.-----	149	86	2	7
Elizabeth, N. J.-----	42	27	1	1	Mobile, Ala.-----	52	30	2	-
Erie, Pa.-----	43	28	3	5	Montgomery, Ala.-----	44	30	3	2
Jersey City, N. J.-----	68	46	8	1	Nashville, Tenn.-----	89	52	2	4
Newark, N. J.-----	81	44	8	4					
New York City, N. Y.-----	1,841	1,115	84	72	WEST SOUTH CENTRAL:	1,324	679	65	81
Paterson, N. J.-----	31	17	3	-	Austin, Tex.-----	52	34	7	1
Philadelphia, Pa.-----	394	239	2	23	Baton Rouge, La.-----	51	17	5	9
Pittsburgh, Pa.-----	203	118	15	7	Corpus Christi, Tex.-----	47	18	-	4
Reading, Pa.-----	53	32	2	2	Dallas, Tex.-----	180	89	3	10
Rochester, N. Y.-----	121	79	11	9	El Paso, Tex.-----	57	29	5	7
Schenectady, N. Y.-----	26	16	3	1	Fort Worth, Tex.-----	72	34	5	4
Scranton, Pa.-----	38	29	1	1	Houston, Tex.-----	227	114	5	5
Syracuse, N. Y.-----	59	36	2	4	Little Rock, Ark.-----	69	31	7	12
Trenton, N. J.-----	60	35	10	-	New Orleans, La.-----	190	103	7	6
Utica, N. Y.-----	30	24	3	1	Oklahoma City, Okla.-----	107	56	3	8
Yonkers, N. Y.-----	32	22	2	1	San Antonio, Tex.-----	129	77	7	8
					Shreveport, La.-----	83	42	9	4
					Tulsa, Okla.-----	60	35	2	3
EAST NORTH CENTRAL:	2,694	1,551	116	127	MOUNTAIN:	459	281	33	19
Akron, Ohio-----	69	45	-	1	Albuquerque, N. Mex.-----	36	21	2	-
Canton, Ohio-----	37	18	2	1	Colorado Springs, Colo.-----	27	17	7	2
Chicago, Ill.-----	795	446	46	53	Denver, Colo.-----	115	70	11	5
Cincinnati, Ohio-----	173	103	7	3	Ogden, Utah-----	22	13	-	3
Cleveland, Ohio-----	209	109	5	11	Phoenix, Ariz.-----	126	79	6	4
Columbus, Ohio-----	129	70	3	3	Pueblo, Colo.-----	23	17	7	-
Dayton, Ohio-----	85	44	2	7	Salt Lake City, Utah-----	59	36	-	5
Detroit, Mich.-----	331	180	11	14	Tucson, Ariz.-----	51	28	-	-
Evansville, Ind.-----	40	25	1	1					
Flint, Mich.-----	57	35	3	2	PACIFIC:	1,723	1,067	53	64
Fort Wayne, Ind.-----	47	29	4	1	Berkeley, Calif.-----	19	12	-	-
Gary, Ind.-----	46	24	7	5	Fresno, Calif.-----	48	32	1	5
Grand Rapids, Mich.-----	45	30	-	1	Glendale, Calif.-----	31	20	1	1
Indianapolis, Ind.-----	158	95	8	7	Honolulu, Hawaii-----	42	17	1	8
Madison, Wis.-----	31	17	3	-	Long Beach, Calif.-----	115	72	8	4
Milwaukee, Wis.-----	147	96	1	7	Los Angeles, Calif.-----	536	327	16	15
Peoria, Ill.-----	31	17	2	4	Oakland, Calif.-----	88	69	4	1
Rockford, Ill.-----	46	29	6	3	Pasadena, Calif.-----	39	22	-	2
South Bend, Ind.-----	32	21	-	-	Portland, Oreg.-----	134	95	6	4
Toledo, Ohio-----	116	72	3	3	Sacramento, Calif.-----	59	38	1	1
Youngstown, Ohio-----	70	46	2	-	San Diego, Calif.-----	114	62	4	2
WEST NORTH CENTRAL:	868	533	30	36	San Francisco, Calif.-----	201	116	4	3
Des Moines, Iowa-----	72	52	1	1	San Jose, Calif.-----	52	28	1	4
Duluth, Minn.-----	17	11	2	1	Seattle, Wash.-----	114	94	3	4
Kansas City, Kans.-----	34	18	1	3	Spokane, Wash.-----	63	43	1	4
Kansas City, Mo.-----	120	75	2	5	Tacoma, Wash.-----	38	20	2	6
Lincoln, Nebr.-----	32	23	2	1					
Minneapolis, Minn.-----	130	82	4	7	Total	13,289	7,835	615	580
Omaha, Nebr.-----	72	49	2	5	Cumulative Totals				
St. Louis, Mo.-----	256	140	8	11	including reported corrections for previous weeks				
St. Paul, Minn.-----	82	49	1	2	All Causes, All Ages -----	173,544			
Wichita, Kans.-----	53	34	7	-	All Causes, Age 65 and over-----	100,769			
					Pneumonia and Influenza, All Ages-----	11,590			
					All Causes, Under 1 Year of Age-----	7,783			

FOODBORNE DISEASE - (Continued from page 99)

TABLE 5
Monthly Incidence of Outbreaks of Foodborne Illness of Specific Etiology 1968 and Monthly Outbreaks 1967

	January	February	March	April	May	June	July	August	September	October	November	December	Total
BACTERIAL													
<i>Brucella</i>	1			1	1				1	2			4
<i>C. hardii</i>		1			1	2	1	1	1	2			8
<i>C. perfringens</i>	2	1	6	4	5	2	4	1	4		4	2	34
<i>E. coli</i>		1	1	1	5	1	1						6
<i>Salmonella</i>	3	5	5	2	4	9	3	3	2	3	6	1	42
<i>Shigella</i>			1	2			1	1	1				6
<i>Staphylococcus</i>	1	1	2	3	11	10	3	12		9	7	1	62
<i>Streptococcus</i>		1	1	4	1	1				1	1	1	13
PARASITIC													
<i>Trypanosoma</i>			1	1	3			1	1			2	9
VIRAL													
Hepatitis	1				2		1	1	1				6
CHEMICAL													
Microbial		2	2	1		3	1	1	1	3	1	1	22
Non-microbial													3
Total 1968	22	26	31	26	32	39	27	29	32	39	29	14	343
Total 1967	4	11	9	14	14	16	18	21	23	24	27	11	204

(Reported by the Enteric Diseases Section and Epidemiological Services Laboratory Section, Bacterial Diseases Branch, Epidemiology Program, and the Laboratory Division, NCDC.)

A copy of the original report from which these data were derived is available on request from:

National Communicable Disease Center
Atlanta, Georgia 30333
Attn: Chief, Enteric Diseases Section
Bacterial Diseases Branch
Epidemiology Program

*The data for 1967 and 1968 include outbreaks affecting two or more people except for botulism.

INTERNATIONAL NOTES INFLUENZA - 1969

Italy (reported March 8) - One strain of A2/Hong Kong/68 was isolated in Genova during the last week of February. Only sporadic cases of respiratory disease have been reported to date in Italy.

Poland (reported January 23 and 30) - During January, an increased incidence of influenza was noted in Warsaw. Four A2/Hong Kong/68 strains were isolated. From January 20-28, 227,000 cases of influenza-like disease were reported from Warsaw.

Portugal (reported February 1) - Sporadic cases of influenza-like disease occurred during the last 2 weeks in January. Five strains of virus A2/Hong Kong/68 were isolated.

Yugoslavia (reported February 25) - In Belgrade, sporadic cases and small family outbreaks of influenza-like disease were noted during the past 2 weeks. Four strains of B virus and three strains of A2/Hong Kong/68 were isolated. Outbreaks associated with influenza B were reported in children's institutions during this period.

SOUTH AMERICA

Argentina (reported January 3) - A family outbreak of influenza-like illness occurred during the last part of December following the arrival of three sick relatives from Los Angeles, California. Five strains of A2 virus were isolated. There is presently no extension to the general population.

Venezuela - Strains of A2/Hong Kong/68 virus were isolated from sporadic cases during the week of January 25. (Compiled from WHO Epidemiological Record Vol. 44, Nos. 3-11.)

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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:

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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.

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