

COMMUNICABLE DISEASE CENTER

Morbidity and Mortality

RECEIVED
OCT 21 1965
CDC LIBRARY
ATLANTA 22, GA



Vol. 14, No. 41

WEEKLY
REPORT

Week Ending
October 16, 1965

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

AN EPIDEMIC OF FOOD-ASSOCIATED PHARYNGITIS AND DIARRHEA

Buffalo, Erie County, New York

A common source epidemic of febrile pharyngitis and diarrhea involving over 250 college students and cafeteria employees has been reported by the Erie County Health Department, Buffalo, New York. Two pathogens, beta hemolytic streptococci and *Shigella flexneri*, appear to have been principally responsible.

The outbreak was reported on Sunday, September 26, to the Health Department by the Student Health Service of the State University of New York. Immediate epidemiological investigation of the first 69 cases indicated a

CONTENTS

An Epidemic of Food-Associated Pharyngitis and Diarrhea	353
Rubella - Current Trends	354
Arbovirus Encephalitis - 1965	360

probable common source epidemic related to meals consumed at one university cafeteria. Food histories pointed to shrimp salad served at the noon meal on Friday, September 24, as the responsible vehicle.

The initial cases began late in the day on September 24, the peak in the epidemic occurring on the following day (Figure 1). Scattered cases continued to occur through September 18. In all, 193 students required care in the

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

DISEASE	41st WEEK ENDED		MEDIAN 1960 - 1964	CUMULATIVE, FIRST 41 WEEKS		
	OCTOBER 16, 1965	OCTOBER 10, 1964		1965	1964	MEDIAN 1960 - 1964
Aseptic meningitis	68	68	84	1,643	1,632	2,032
Brucellosis	1	8	9	198	334	334
Diphtheria	2	9	10	118	201	340
Encephalitis, primary infectious	41	134	---	1,451	2,594	---
Encephalitis, post-infectious	5	4	---	572	707	---
Hepatitis, infectious including serum hepatitis	645	681	798	26,751	30,454	34,317
Measles	872	800	911	242,989	464,450	399,169
Meningococcal infections	37	42	42	2,464	2,191	1,730
Poliomyelitis, Total	—	5	30	45	92	675
Paralytic	—	5	20	35	76	533
Nonparalytic	—	—	---	6	10	---
Unspecified	—	—	---	4	6	---
Streptococcal Sore Throat and Scarlet fever	6,266	5,093	4,187	310,713	315,204	254,064
Tetanus	4	6	---	210	220	---
Tularemia	8	2	---	205	264	---
Typhoid fever	5	17	17	337	345	501
Rabies in Animals	65	65	65	3,494	3,656	3,024

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	7	Rabies in Man:	1
Botulism:	13	Smallpox:	—
Leptospirosis: Ill.-1	40	Trichinosis: N.J.-1, Calif.-2	92*
Malaria: Calif.-1	64	Typhus -	
Plague:	6	Murine:	22
Psittacosis:	36	Rky. Mt. Spotted: N.J.-1, Va.-1	242
Cholera:	2		

*Includes 11 delayed reports from N.J., Period: May-Aug.

AN EPIDEMIC OF FOOD-ASSOCIATED PHARYNGITIS AND DIARRHEA

Buffalo, Erie County, New York

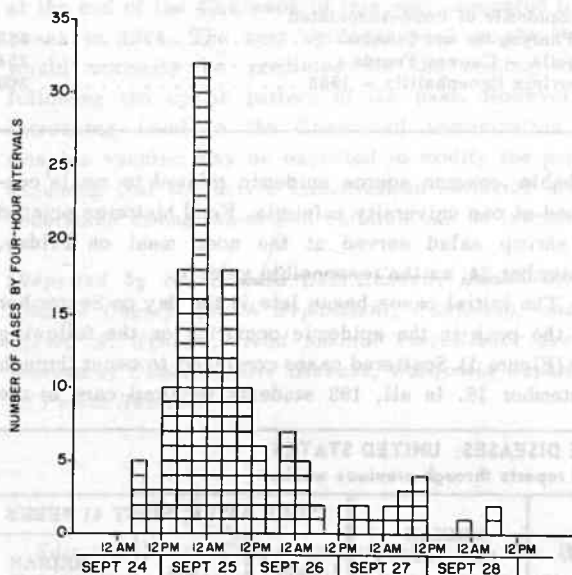
(Continued from front page)

Student Infirmary and about two thirds of 123 cafeteria employees who had also eaten the shrimp salad became ill about the same time with sore throats and diarrhea.

Figure 1

ONSET OF ILLNESS BY FOUR-HOUR INTERVALS
FOOD-ASSOCIATED EPIDEMIC

STATE UNIVERSITY OF NEW YORK, BUFFALO



The predominant symptoms were sore throat, fever, diarrhea, headache, prostration, and nausea or vomiting. Sore throat and headache were most frequent among the earlier cases and diarrhea was more prominent among those affected later.

Of the first 69 cases, all among students, 93 percent had sore throats, 65 percent had fever and 42 percent, diarrhea. Blood counts carried out on the first group of 20 students to be admitted to the Infirmary showed that

over half had a leucocytosis of more than 15,000 with a shift to the left. Thirty-one of 45 throat swabs yielded beta hemolytic streptococci. *Shigella flexneri* was isolated from 16 of 46 specimens from patients with diarrhea. Because of the symptomatology, all students and others known to have consumed the suspect meal were given prophylactic oral penicillin.

The salad was prepared from frozen shrimp thawed in warm water the night before it was served. On the next morning, September 24, the shrimp was mixed by hand with salad dressing and celery. It was then put in a large refrigerated vat until it was served at the noon meal when some 390 servings were distributed. On each of the following 2 days, an additional 80 servings were made of the same salad. The brand of frozen shrimp used at the University cafeteria was also served at about the same time in two other cafeterias without any associated illness.

At the Erie County Laboratory, bacteriological examination of the shrimp salad has yielded isolates of fecal and beta hemolytic streptococci, coagulase positive staphylococci, and enteric organisms not yet identified.

Investigation of the working of the refrigeration vat has shown that when the contents were treated similarly to those in the incriminated shrimp salad, the temperature just underneath the surface layers was recorded at 65°F or higher.

The cafeteria was closed for complete disinfection and all food handlers were prohibited from returning to work until two successive rectal swabs negative for shigella had been obtained. So far the source of the contamination of the salad has not been specifically defined.

(Reported by Dr. William E. Mosher, Commissioner, Erie County Health Department; Dr. Willeam R. Elsea, Deputy Commissioner, Erie County Health Department; Dr. Victoria Markellin, Director, Communicable Disease Control, Erie County Health Department, New York; and an EIS Officer.)

RUBELLA - CURRENT TRENDS

(Although rubella is not a nationally reportable disease, the Biennial Conference of State and Territorial Epidemiologists has recommended that it be placed on the list of nationally reported diseases, effective January 1, 1966. Nearly half of the States have reported rubella monthly for the past decade, and these records form the basis of this report.)

During the winter and spring of 1963-64, extensive outbreaks of rubella occurred in most sections of the

United States with the exception of the far west (MMWR, Vol. 14, No. 16). This past winter and spring rubella occurred in epidemic proportions in the Pacific States (Figures 2 and 3). The number of cases in the Mountain States for the winter and spring of 1964-65 was slightly greater than average for 1955-63. The incidence of rubella dropped to a seasonal low for all regions in August 1965.

(Reported by the Childhood Virus Unit, CDC.)

Figure 2.

RUBELLA BY MONTH OF REPORT
FOR SELECTED STATES
SEPTEMBER 1963-AUGUST 1965 COMPARED TO
AVERAGE MONTHLY REPORT, 1955-1963

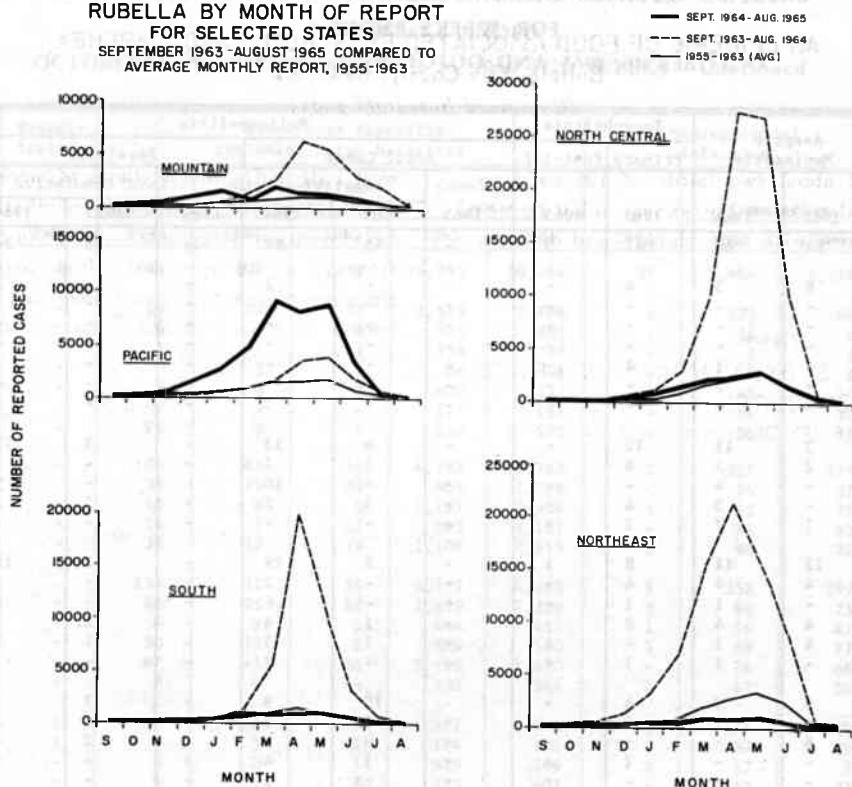
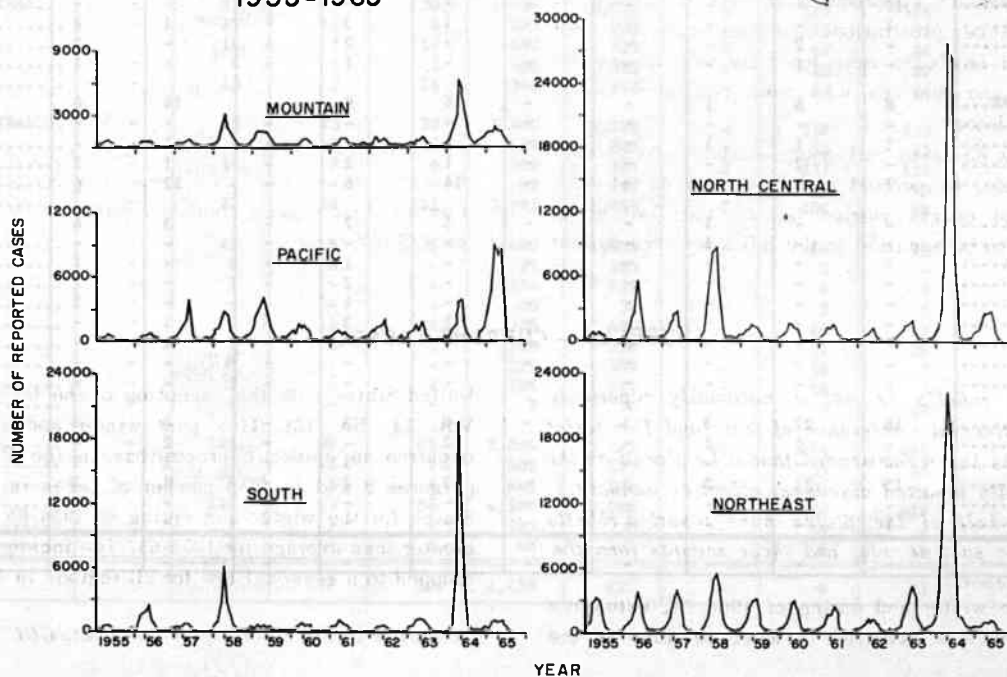


Figure 3.

RUBELLA BY MONTH OF REPORT
FOR SELECTED STATES
1955-1965*



*THROUGH AUGUST, 1965.



OCTOBER 16, 1965 AND OCTOBER 10, 1964 (41st WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis						Diphtheria	
			Primary	Post-Inf.	Total Cases			Paralytic				Cum.
	1965	1964			1965	Cumulative		1965	Cumulative			
			1965	1964		1965	1964		1965	1964		
UNITED STATES...	68	68	41	5	-	45	92	-	35	76	2	118
NEW ENGLAND.....	6	3	4	-	-	-	2	-	-	2	-	2
Maine.....	-	-	-	-	-	-	1	-	-	1	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	6	1	4	-	-	-	-	-	-	-	-	2
Rhode Island.....	-	2	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	1	-	-
MIDDLE ATLANTIC.....	3	11	12	-	-	4	13	-	3	12	-	5
New York City.....	2	2	6	-	-	1	1	-	-	1	-	3
New York, Up-State.....	-	4	-	-	-	-	10	-	-	9	-	-
New Jersey.....	-	3	4	-	-	3	2	-	3	2	-	-
Pennsylvania.....	1	2	2	-	-	-	-	-	-	-	-	2
EAST NORTH CENTRAL...	12	11	8	1	-	2	19	-	2	15	-	5
Ohio.....	4	4	4	-	-	-	2	-	-	2	-	1
Indiana.....	-	1	1	-	-	-	6	-	-	5	-	2
Illinois.....	4	4	2	-	-	1	6	-	1	5	-	1
Michigan.....	4	1	-	1	-	1	3	-	1	2	-	-
Wisconsin.....	-	1	1	-	-	-	2	-	-	1	-	1
WEST NORTH CENTRAL...	9	9	4	-	-	10	9	-	7	7	1	19
Minnesota.....	3	1	1	-	-	1	3	-	1	2	-	7
Iowa.....	6	-	-	-	-	4	-	-	2	-	-	1
Missouri.....	-	-	1	-	-	1	4	-	-	3	-	1
North Dakota.....	-	-	-	-	-	-	1	-	-	1	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	7
Nebraska.....	-	-	-	-	-	3	-	-	3	-	1	2
Kansas.....	-	8	2	-	-	1	1	-	1	1	-	1
SOUTH ATLANTIC.....	1	3	8	1	-	1	25	-	1	20	-	30
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	1	-	-	1	1	-	1	1	-	-
Dist. of Columbia..	-	1	-	-	-	-	-	-	-	-	-	3
Virginia.....	1	-	5	-	-	-	3	-	-	3	-	-
West Virginia.....	-	1	-	-	-	-	1	-	-	1	-	-
North Carolina.....	-	-	-	-	-	-	10	-	-	6	-	2
South Carolina.....	-	-	-	-	-	-	1	-	-	1	-	1
Georgia.....	-	-	-	Georgia.....	-	-	1	-	-	1	-	15
Florida.....	-	1	2	1	-	-	8	-	-	7	-	9
EAST SOUTH CENTRAL...	13	3	-	-	-	1	6	-	1	5	-	18
Kentucky.....	12	-	-	-	-	-	-	-	-	-	-	-
Tennessee.....	1	-	-	-	-	1	3	-	1	2	-	1
Alabama.....	-	2	-	-	-	-	2	-	-	2	-	15
Mississippi.....	-	1	-	-	-	-	1	-	-	1	-	2
WEST SOUTH CENTRAL...	8	6	1	-	-	16	8	-	14	8	1	30
Arkansas.....	-	-	-	-	-	-	-	-	-	-	-	2
Louisiana.....	1	1	1	-	-	1	-	-	1	-	1	7
Oklahoma.....	-	2	-	-	-	1	2	-	1	2	-	-
Texas.....	7	3	-	-	-	14	6	-	12	6	-	21
MOUNTAIN.....	-	-	1	-	-	5	7	-	3	4	-	-
Montana.....	-	-	1	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	1	-	-	1	-	-
Wyoming.....	-	-	-	-	-	-	2	-	-	2	-	-
Colorado.....	-	-	-	-	-	-	1	-	-	1	-	-
New Mexico.....	-	-	-	-	-	1	3	-	1	-	-	-
Arizona.....	-	-	-	-	-	4	-	-	2	-	-	-
Utah.....	-	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	16	22	3	3	-	6	3	-	4	3	-	9
Washington.....	-	1	1	-	-	2	-	-	2	-	-	3
Oregon.....	-	-	-	-	-	1	1	-	1	1	-	1
California.....	15	21	2	3	-	3	2	-	1	2	-	5
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	-	-	12

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 16, 1965 AND OCTOBER 10, 1964 (41st WEEK) - Continued

Area	Brucel- losis	Infectious Hepatitis including Serum Hepatitis					Meningococcal infections			Tetanus	
		Total incl. unk.	Under 20 years	20 years and over	Cumulative Totals		1965	Cumulative		1965	Cum.
		1965	1965	1965	1965	1964		1965	1964		1965
UNITED STATES...	1	645	321	292	26,751	30,454	37	2,464	2,191	4	210
NEW ENGLAND.....	-	29	14	15	1,555	2,789	2	125	64	-	5
Maine.....	-	6	5	1	275	881	-	16	6	-	-
New Hampshire.....	-	1	-	1	158	217	-	7	1	-	1
Vermont.....	-	3	1	2	86	346	-	7	4	-	-
Massachusetts.....	-	8	3	5	609	622	2	45	24	-	3
Rhode Island.....	-	-	-	-	171	153	-	14	10	-	-
Connecticut.....	-	11	5	6	256	570	-	36	19	-	1
MIDDLE ATLANTIC.....	-	104	45	59	4,752	6,743	3	317	279	-	13
New York City.....	-	39	15	24	964	1,029	-	54	37	-	-
New York, Up-State.....	-	13	8	5	1,787	2,948	1	92	79	-	5
New Jersey.....	-	16	5	11	893	1,151	-	81	93	-	1
Pennsylvania.....	-	36	17	19	1,108	1,615	2	90	70	-	7
EAST NORTH CENTRAL...	-	154	92	56	5,177	4,784	9	358	297	-	30
Ohio.....	-	46	26	20	1,425	1,259	3	96	75	-	2
Indiana.....	-	4	2	2	444	411	1	46	47	-	7
Illinois.....	-	30	19	8	988	900	3	99	77	-	15
Michigan.....	-	67	41	26	1,990	1,870	-	76	68	-	3
Wisconsin.....	-	7	4	-	330	344	2	41	30	-	3
WEST NORTH CENTRAL...	1	30	11	15	1,527	1,645	3	126	129	-	18
Minnesota.....	1	9	5	2	164	188	-	27	29	-	8
Iowa.....	-	4	3	1	529	266	3	12	7	-	4
Missouri.....	-	5	1	3	323	401	-	52	57	-	2
North Dakota.....	-	2	1	1	29	59	-	11	19	-	-
South Dakota.....	-	-	-	-	20	129	-	3	3	-	-
Nebraska.....	-	6	1	4	75	45	-	10	6	-	2
Kansas.....	-	4	-	4	387	557	-	11	8	-	2
SOUTH ATLANTIC.....	-	72	39	30	2,770	2,868	4	466	428	-	47
Delaware.....	-	1	1	-	66	62	1	9	6	-	-
Maryland.....	-	10	7	3	483	533	-	44	32	-	1
Dist. of Columbia..	-	-	-	-	39	57	-	9	13	-	-
Virginia.....	-	20	14	6	662	452	2	58	50	-	7
West Virginia.....	-	10	3	4	386	413	-	25	33	-	1
North Carolina.....	-	4	1	3	260	477	1	95	73	-	7
South Carolina.....	-	4	2	2	126	109	-	60	52	-	6
Georgia.....	-	5	2	3	98	86	-	57	63	-	5
Florida.....	-	18	9	9	650	679	-	109	106	-	20
EAST SOUTH CENTRAL...	-	57	21	30	1,906	2,092	2	193	176	1	28
Kentucky.....	-	21	11	4	680	757	1	75	57	-	6
Tennessee.....	-	19	7	12	640	735	1	61	56	1	10
Alabama.....	-	4	1	3	340	390	-	35	39	-	10
Mississippi.....	-	13	2	11	246	210	-	22	24	-	2
WEST SOUTH CENTRAL...	-	45	23	20	2,320	2,378	4	319	253	1	46
Arkansas.....	-	4	2	2	297	225	-	15	23	-	11
Louisiana.....	-	14	7	6	382	581	3	177	122	-	5
Oklahoma.....	-	-	-	-	49	117	-	20	10	-	1
Texas.....	-	27	14	12	1,592	1,455	1	107	98	1	29
MOUNTAIN.....	-	23	8	5	1,480	1,833	-	86	73	-	3
Montana.....	-	4	4	-	122	163	-	2	-	-	-
Idaho.....	-	1	-	-	184	259	-	9	3	-	-
Wyoming.....	-	-	-	-	40	58	-	5	5	-	-
Colorado.....	-	2	1	1	313	490	-	24	12	-	2
New Mexico.....	-	7	3	3	316	256	-	11	29	-	-
Arizona.....	-	8	-	-	315	409	-	16	7	-	1
Utah.....	-	1	-	1	181	147	-	16	7	-	-
Nevada.....	-	-	-	-	9	51	-	3	10	-	-
PACIFIC.....	-	131	68	62	5,264	5,322	10	474	492	2	20
Washington.....	-	5	2	2	402	545	1	35	35	-	-
Oregon.....	-	5	2	3	441	560	-	33	21	-	4
California.....	-	119	63	56	4,180	3,900	9	380	417	2	16
Alaska.....	-	1	1	-	193	213	-	18	7	-	-
Hawaii.....	-	1	-	1	48	104	-	8	12	-	-
Puerto Rico	-	37	27	10	1,155	827	-	9	31	1	45

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

OCTOBER 16, 1965 AND OCTOBER 10, 1964 (41st WEEK) - Continued

Area	Measles			Strept. Sore Th. & Scarlet Fev.	Tularemia		Typhoid Fever		Rabies in Animals	
	1965	Cumulative		1965	1965	Cum.	1965	Cum.	1965	Cum.
		1965	1964			1965		1965		
UNITED STATES...	872	242,989	464,450	6,266	8	205	5	337	65	3,494
NEW ENGLAND.....	31	36,907	17,167	390	-	1	-	6	1	41
Maine.....	5	2,821	3,035	56	-	-	-	-	-	4
New Hampshire.....	-	381	256	-	-	-	-	-	1	3
Vermont.....	18	1,301	2,335	-	-	-	-	-	-	31
Massachusetts.....	2	19,305	5,403	64	-	1	-	3	-	2
Rhode Island.....	2	3,940	1,966	16	-	-	-	1	-	-
Connecticut.....	4	9,159	4,172	254	-	-	-	2	-	1
MIDDLE ATLANTIC.....	90	15,035	52,322	131	-	-	-	60	12	155
New York City.....	30	2,469	15,374	7	-	-	-	29	-	-
New York, up-State.	7	4,164	12,752	45	-	-	-	15	12	142
New Jersey.....	35	2,657	12,232	64	-	-	-	7	-	-
Pennsylvania.....	18	5,745	11,964	15	-	-	-	9	-	13
EAST NORTH CENTRAL...	263	56,367	103,270	545	-	13	2	41	7	536
Ohio.....	9	8,911	19,661	24	-	-	2	11	5	277
Indiana.....	72	1,960	22,852	201	-	5	-	8	-	64
Illinois.....	27	2,804	16,652	86	-	5	-	10	1	83
Michigan.....	64	26,643	29,037	154	-	2	-	7	-	53
Wisconsin.....	91	16,049	15,068	80	-	1	-	5	1	59
WEST NORTH CENTRAL...	31	16,677	30,316	300	1	26	-	11	15	710
Minnesota.....	8	698	335	8	-	1	-	1	3	143
Iowa.....	2	9,052	23,337	65	-	-	-	2	5	203
Missouri.....	1	2,595	1,022	2	1	19	-	7	1	98
North Dakota.....	20	3,765	4,775	118	-	-	-	-	1	45
South Dakota.....	-	115	35	12	-	2	-	-	1	53
Nebraska.....	-	452	812	-	-	-	-	1	-	36
Kansas.....	NN	NN	NN	95	-	4	-	-	4	132
SOUTH ATLANTIC.....	103	25,131	38,584	628	-	31	-	66	5	469
Delaware.....	1	506	411	26	-	-	-	4	-	-
Maryland.....	4	1,170	3,410	30	-	-	-	20	1	23
Dist. of Columbia..	-	78	354	4	-	-	-	-	-	-
Virginia.....	5	3,900	12,719	108	-	8	-	8	1	286
West Virginia.....	63	13,960	8,801	196	-	-	-	3	-	21
North Carolina.....	4	394	1,164	11	-	6	-	15	-	3
South Carolina.....	6	1,058	4,266	40	-	3	-	8	-	2
Georgia.....	-	617	198	10	-	14	-	4	3	62
Florida.....	20	3,448	7,261	203	-	-	-	4	-	72
EAST SOUTH CENTRAL...	158	14,136	67,948	1,598	-	21	-	33	6	740
Kentucky.....	104	2,690	18,480	153	-	3	-	9	2	80
Tennessee.....	54	7,991	24,403	1,223	-	17	-	12	4	607
Alabama.....	-	2,335	18,376	71	-	1	-	7	-	16
Mississippi.....	-	1,120	6,689	151	-	-	-	5	-	37
WEST SOUTH CENTRAL...	79	31,105	72,237	782	5	87	2	50	13	562
Arkansas.....	1	1,085	1,124	1	4	60	-	13	1	81
Louisiana.....	1	109	117	2	-	5	2	9	2	72
Oklahoma.....	4	210	1,019	51	1	11	-	6	5	125
Texas.....	73	29,701	69,977	728	-	11	-	22	5	284
MOUNTAIN.....	46	19,898	18,888	951	1	16	-	28	2	77
Montana.....	7	3,746	3,160	36	-	4	-	1	-	5
Idaho.....	6	2,804	1,948	102	-	-	-	-	-	-
Wyoming.....	2	851	262	39	1	4	-	1	-	-
Colorado.....	6	5,696	3,259	277	-	-	-	-	-	9
New Mexico.....	-	677	472	184	-	-	-	11	-	14
Arizona.....	11	1,350	6,695	91	-	-	-	12	1	46
Utah.....	12	4,568	2,100	220	-	8	-	1	1	2
Nevada.....	2	206	992	2	-	-	-	2	-	1
PACIFIC.....	71	27,733	63,718	941	1	10	1	42	4	204
Washington.....	17	7,283	20,116	190	-	-	-	4	-	7
Oregon.....	26	3,303	8,699	15	-	5	-	8	2	9
California.....	25	13,080	33,184	609	1	5	1	29	2	186
Alaska.....	1	187	1,117	18	-	-	-	-	-	2
Hawaii.....	2	3,880	602	109	-	-	-	1	-	-
Puerto Rico	41	2,504	6,544	5	-	-	2	12	-	13

359

Week No. 41 Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED OCTOBER 16, 1965

(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:	743	467	19	28	SOUTH ATLANTIC:	1,127	595	34	59
Boston, Mass.-----	226	127	4	13	Atlanta, Ga.-----	139	73	7	9
Bridgeport, Conn.-----	39	28	1	-	Baltimore, Md.-----	245	129	1	9
Cambridge, Mass.-----	30	16	-	-	Charlotte, N. C.-----	47	20	-	1
Fall River, Mass.-----	23	19	-	-	Jacksonville, Fla.-----	56	32	3	4
Hartford, Conn.-----	62	35	1	4	Miami, Fla.-----	74	43	-	4
Lowell, Mass.-----	27	18	1	4	Norfolk, Va.-----	62	28	2	3
Lynn, Mass.-----	19	13	-	-	Richmond, Va.-----	94	50	-	5
New Bedford, Mass.-----	27	22	-	-	Savannah, Ga.-----	32	13	1	2
New Haven, Conn.-----	56	34	1	1	St. Petersburg, Fla.-----	82	66	5	-
Providence, R. I.-----	71	48	6	1	Tampa, Fla.-----	65	32	5	4
Somerville, Mass.-----	11	8	-	-	Washington, D. C.-----	185	91	9	15
Springfield, Mass.-----	57	40	4	-	Wilmington, Del.-----	46	18	1	3
Waterbury, Conn.-----	31	16	-	3					
Worcester, Mass.-----	64	43	1	2	EAST SOUTH CENTRAL:	594	304	26	31
MIDDLE ATLANTIC:	3,189	1,875	153	152	Birmingham, Ala.-----	97	40	1	3
Albany, N. Y.-----	49	22	-	1	Chattanooga, Tenn.-----	37	22	3	2
Allentown, Pa.-----	41	22	2	3	Knoxville, Tenn.-----	39	26	-	1
Buffalo, N. Y.-----	126	72	4	9	Louisville, Ky.-----	106	48	14	5
Camden, N. J.-----	49	26	3	3	Memphis, Tenn.-----	121	61	2	11
Elizabeth, N. J.-----	32	16	2	2	Mobile, Ala.-----	34	18	1	1
Erie, Pa.-----	47	30	2	1	Montgomery, Ala.-----	52	25	3	1
Jersey City, N. J.-----	62	33	4	4	Nashville, Tenn.-----	108	64	2	7
Newark, N. J.-----	96	46	3	8	WEST SOUTH CENTRAL:	1,079	532	21	88
New York City, N. Y.-----	1,669	985	74	88	Austin, Tex.-----	31	15	1	3
Paterson, N. J.-----	45	26	3	5	Baton Rouge, La.-----	45	15	1	8
Philadelphia, Pa.-----	401	236	13	13	Corpus Christi, Tex.-----	25	12	-	3
Pittsburgh, Pa.-----	164	82	4	8	Dallas, Tex.-----	137	63	2	8
Reading, Pa.-----	62	42	5	-	El Paso, Tex.-----	24	13	3	3
Rochester, N. Y.-----	115	81	9	3	Fort Worth, Tex.-----	79	43	-	4
Schenectady, N. Y.-----	30	24	2	-	Houston, Tex.-----	158	64	3	15
Scranton, Pa.-----	38	27	2	-	Little Rock, Ark.-----	70	37	3	7
Syracuse, N. Y.-----	54	33	1	4	New Orleans, La.-----	203	97	1	20
Trenton, N. J.-----	58	33	5	-	Oklahoma City, Okla.-----	78	42	1	4
Utica, N. Y.-----	22	17	12	-	San Antonio, Tex.-----	122	77	-	4
Yonkers, N. Y.-----	29	22	3	-	Shreveport, La.-----	48	24	3	3
EAST NORTH CENTRAL:	2,539	1,420	89	152	Tulsa, Okla.-----	59	30	3	6
Akron, Ohio-----	62	37	-	2	MOUNTAIN:	371	201	18	23
Canton, Ohio-----	39	28	6	1	Albuquerque, N. Mex.-----	39	16	3	5
Chicago, Ill.-----	810	429	35	54	Colorado Springs, Colo.-----	24	16	1	3
Cincinnati, Ohio-----	181	100	5	16	Denver, Colo.-----	93	54	3	4
Cleveland, Ohio-----	170	92	4	9	Ogden, Utah-----	24	11	4	1
Columbus, Ohio-----	92	53	-	8	Phoenix, Ariz.-----	99	51	4	3
Dayton, Ohio-----	82	48	4	5	Pueblo, Colo.-----	11	6	3	1
Detroit, Mich.-----	336	173	7	18	Salt Lake City, Utah-----	40	22	-	5
Evansville, Ind.-----	29	20	1	-	Tucson, Ariz.-----	41	25	-	1
Flint, Mich.-----	45	26	2	6	PACIFIC:	1,365	806	34	77
Fort Wayne, Ind.-----	52	35	1	2	Berkeley, Calif.*-----	15	10	-	-
Gary, Ind.-----	20	11	-	1	Fresno, Calif.-----	37	23	1	5
Grand Rapids, Mich.-----	52	33	-	5	Glendale, Calif.-----	34	25	-	-
Indianapolis, Ind.-----	130	70	5	4	Honolulu, Hawaii-----	42	24	1	5
Madison, Wis.-----	45	20	-	2	Long Beach, Calif.-----	64	35	3	7
Milwaukee, Wis.-----	107	69	5	6	Los Angeles, Calif.-----	362	214	6	10
Peoria, Ill.-----	34	16	2	4	Oakland, Calif.-----	58	28	-	4
Rockford, Ill.*-----	28	17	3	2	Pasadena, Calif.-----	37	24	-	1
South Bend, Ind.-----	57	40	3	1	Portland, Oreg.-----	124	72	1	8
Toledo, Ohio-----	118	74	5	3	Sacramento, Calif.-----	52	28	1	1
Youngstown, Ohio-----	50	29	1	3	San Diego, Calif.-----	99	55	5	9
WEST NORTH CENTRAL:	827	528	23	44	San Francisco, Calif.-----	177	105	4	9
Des Moines, Iowa-----	67	51	1	1	San Jose, Calif.-----	33	20	6	3
Duluth, Minn.-----	25	16	1	1	Seattle, Wash.-----	139	90	3	10
Kansas City, Kans.-----	40	24	1	6	Spokane, Wash.-----	51	34	1	4
Kansas City, Mo.-----	122	77	4	2	Tacoma, Wash.-----	41	19	2	1
Lincoln, Nebr.-----	22	17	-	2	Total	11,834	6,728	417	654
Minneapolis, Minn.-----	122	87	2	5					
Omaha, Nebr.-----	68	41	2	6					
St. Louis, Mo.-----	251	149	9	14					
St. Paul, Minn.-----	63	41	-	5					
Wichita, Kans.-----	47	25	3	2					

*Estimate - based on average percent of divisional total.

ARBOVIRUS ENCEPHALITIS - 1965

Further reports have been received of laboratory confirmed or presumptive human cases of Arbovirus encephalitis since the situation as of September 30 was summarized (MMWR, Vol. 14, No. 39). There are now 95 confirmed and presumptive cases of Western equine encephalitis (WEE) with two deaths and 21 cases of St. Louis encephalitis (SLE). The figures for Eastern equine encephalitis (EEE) and California encephalitis (CE) remain unchanged.

In Kansas there have been eight human cases of WEE, the ages of the patients ranging from 4 years to 86 years; there were no deaths. The date of onset of the first case was July 20 and that of the last case reported was September 13. These cases have been concentrated along the Arkansas River basin in the south-central and south-western parts of the state where spring flooding gave rise to unusually large mosquito populations.

The only confirmed case of WEE to be reported so far in Wisconsin was in a 15-year-old male who became ill on August 18. The patient had travelled in South Dakota 2 weeks before he fell ill. However, serologically proven cases of WEE in horses were found in the vicinity of the patient's home in Wisconsin.

From Missouri there are reports of three confirmed or presumptive cases of SLE, one each in the St. Louis area, in Kansas City and in Boone County. One case of WEE has also been notified from the Kansas City area.

In Colorado, although no new cases have been reported since mid-September, laboratory examinations have now given a total of 40 confirmed and presumptive cases of WEE and 10 cases of SLE. There was one fatality in a 17-year-old male who became ill on August 20 with what was later serologically confirmed as WEE.

(Reported by Dr. Don E. Wilcox, Director of Epidemiology, Kansas State Department of Health; Dr. Josef Preizler, Deputy Director of Preventable Diseases, Wisconsin State Board of Health; Dr. E. A. Belden, Consultant for Communicable Disease Control, Missouri Department of Public Health and Welfare; Dr. Cecil S. Molloy, Chief of Epidemiology Section, Colorado State Department of Public Health.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 14,000, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

CHIEF, COMMUNICABLE DISEASE CENTER
CHIEF, EPIDEMIOLOGY BRANCH
ACTING CHIEF, STATISTICS SECTION
CHIEF, SURVEILLANCE SECTION

JAMES L. GODDARD, M.D.
A. D. LANGMUIR, M.D.
IDA L. SHERMAN, M.S.
D. A. HENDERSON, M.D.

EDITOR: MMWR

D.J.M. MACKENZIE, M.B.,
F.R.C.P.E.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE 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:

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

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333
Official Business

Library
81
7 61
CDC

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