



Morbidity and Mortality

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

PUBLIC HEALTH SERVICE

AN OUTBREAK OF FOOD POISONING LITTLE ROCK, ARKANSAS

An outbreak of diarrheal illness affecting two public schools in Little Rock was reported to the Arkansas State Board of Health on Tuesday, October 19. The outbreak followed a luncheon on October 6, cooked in one school kitchen and served in the cafeterias of the two schools involved. Epidemiological investigations by the Little Rock City Health Department indicated that the vehicle of infection was probably turkey-a-la-king. Cultures from turkey breast left over from the meal later yielded three serotypes of *Clostridium perfringens*.

There are 36 public schools in Little Rock and all participate in a Federal Government-sponsored school

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lunch program. The cafeterias of these schools all have the same menu each day. The two public schools affected served turkey-a-la-king on October 6 prepared from their allotment of four USDA graded and inspected turkeys. The turkey dish was served to approximately 301 children and teachers at the two schools, one of which has an approximate registered total of 800 children, the other, 58. The

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

DISEASE	45th WEEK ENDED		MEDIAN 1960 - 1964	CUMULATIVE, FIRST 45 WEEKS		
	NOVEMBER 13, 1965	NOVEMBER 7, 1964		1965	1964	MEDIAN 1960 - 1964
Aseptic meningitis	39	56	47	1,835	1,862	2,267
Brucellosis	8	1	3	217	351	351
Diphtheria	5	3	7	140	236	382
Encephalitis, primary infectious . .	45	58	---	1,667	2,902	---
Encephalitis, post-infectious . . .	6	2	---	593	730	---
Hepatitis, infectious including serum hepatitis	523	672	805	29,211	33,105	37,499
Measles	1,235	1,903	1,903	247,419	469,679	405,051
Meningococcal infections	45	51	36	2,633	2,408	1,911
Poliomyelitis, Total	—	3	30	51	104	777
Paralytic	—	3	23	37	83	615
Nonparalytic	—	—	---	10	11	---
Unspecified	—	—	---	4	10	---
Streptococcal Sore Throat and Scarlet fever	6,701	7,301	5,525	336,101	340,481	274,007
Tetanus	6	4	---	234	244	---
Tularemia	2	5	---	223	291	---
Typhoid fever	6	38	11	381	400	554
Rabies in Animals	87	56	56	3,761	3,917	3,222

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	7	Rabies in Man:	1
Botulism:	13	Smallpox:	—
Leptospirosis: Iowa - 1, Calif. - 1	48	Trichinosis:	100
Malaria: Calif. - 1	73	Typhus -	
Plague:	6	Murine: Texas - 2	24
Psittacosis: Calif. - 1	38	Rky. Mt. Spotted: N.J. - 1, Va. - 1, Ga. - 1	251
Cholera:	2		

AN OUTBREAK OF FOOD POISONING LITTLE ROCK, ARKANSAS

(Continued from front page)

attack rates at the schools are shown in Table 1. None of the other 34 schools were affected.

Table 1
OUTBREAK OF FOOD POISONING AT TWO SCHOOLS:
LITTLE ROCK, ARKANSAS, October 6, 1965

	Total Known Eating	Total Inter- viewed	Total Known Ill	Attack Rate/100	Lunch** Hour
<i>School I</i>					
Students*	83	52	18	35	11:15-12:00
Teachers	10	10	10	100	Grades 1 & 2
Total	93	62	28	61	
Students*	58	47	32	68	11:45-12:30
Teachers	9	9	8	89	Grades 3 & 4
Total	67	56	40	71	
Students*	72	64	60	94	12:15-1:00
Teachers	9	9	9	100	Grades 5 & 6
Total	81	73	69	95	
<i>School II</i>					
Students*	58	32	32	55	12:00 noon
Teachers	2	2	2	100	
Total	60	34	34	57	

*Information on students was obtained from teachers and absentee lists.

**Three servings of lunch at School I.

The illness was sudden in onset and characterized by acute abdominal pain followed by diarrhea; nausea was marked in the majority of cases but little vomiting occurred. There were no fatalities and none of the patients required hospitalization. However, 20.7 percent of those affected were ill enough to be absent from school the next day. The incubation period of the illness ranged from 3½ to 13½ hours with an average of 7.8 hours. The duration of

the illness averaged 15 hours with a range from 1 to 36 hours.

Epidemiological investigations by the City Health Department revealed that an allotment of four frozen turkeys was received at the larger school kitchen on the morning of Monday, October 4. The next morning the turkeys were cooked at 350°F for 4 to 5 hours, cooled at room temperature, and placed overnight in a milk cooler which maintains a temperature of about 40°F. On Wednesday, October 6, the turkey meat was diced and added to a broth of peas, carrots and onions. The food was then heated, but not boiled, for 30 minutes. Thereafter, the turkey-a-la-king was kept warm on steam tables at the larger school during the three lunch periods from 11:15 a.m. through 1:00 p.m. The food for the smaller school was transported by private auto to that school and served shortly after arrival there.

Laboratory investigations of the left-over turkey meat at the Arkansas State Health Department Laboratory and at the CDC have yielded cultures of *Clostridium perfringens* in which there were three separate serotypes. One serotype has been identified as Hobbs 13 but the other two were non-typable.

The State Sanitarians have inspected the school kitchens frequently in the past and pointed out the inadequacy of storage space for frozen meats and other perishable foods. Since this outbreak, new and effective refrigeration equipment has been installed. Other remedial measures have included a series of lectures on kitchen hygiene to all personnel handling food.

(Reported by Dr. J. T. Herron, State Health Officer, and Dr. William L. Bunch, Jr., Acting Director, Communicable Disease Control, Arkansas State Board of Health; Dr. Mason C. Lawson, Director, and Mr. James M. Cairns, Sanitarian, Little Rock City Health Department; and an EIS Officer.)

EPIDEMIOLOGIC NOTES AND REPORTS DIPHTHERIA IN A GROUP OF INDIAN FAMILIES Douglas County, Nebraska

On September 18, 1965, in Omaha, Nebraska, a physician saw a 3-year-old Indian child who was not seriously ill but was suffering from a bloody nasal discharge. The following day the Omaha-Douglas County Health Department Laboratory reported a presumptive isolation of *Corynebacterium diphtheriae* from the child. Swabs were then immediately obtained from nine household contacts in the child's home.

Subsequent laboratory studies yielded isolates of virulent *C. diphtheriae* from nasal smears taken from the child, his father, and two siblings. During the following week, 42 additional contacts in 11 closely associated neighboring families were investigated and non-virulent *C. diphtheriae* were isolated from 3 of these contacts.

The index case and the six positive contacts were given penicillin therapy over a 10-day period. Repeat

cultures on October 12 showed that the patient and his two sibling contacts were still harboring virulent diphtheria organisms; by then all other contacts were negative.

Following a subsequent 7-day course of erythromycin, two consecutive swabs from each of the two siblings proved to be negative on culture. The index case had been fatally injured by a fall several days before the final cultures were obtained from the two siblings. Accordingly a repeat culture was not obtained.

Of the total group of 51 persons involved, just over 50 percent gave a history of adequate immunization against diphtheria. Among the seven individuals who yielded positive cultures for *C. diphtheriae*, the immunization status is shown in Table 2.

On October 2 and 3 all individuals in the family groups concerned received booster immunizations against diphtheria, tetanus and poliomyelitis; children under 6 years of age were also given pertussis vaccine.

Table 2
DIPHTHERIA IN A GROUP OF INDIAN FAMILIES
Omaha, Nebraska

Case	Age	Relation-ship	Immunization	Laboratory
Index	3 years	—	None	Virulent
2	4 years	Sibling	Primary series*	Virulent
3	11 months	Sibling	None	Virulent
4	28 years	Father	Primary series*	Virulent
5	34 years	Aunt	Primary series	Non-virulent
6	4 years	Contact	Full	Non-virulent
7	26 years	Contact	Full	Non-virulent

*No booster followed these primary series.

(Reported by Dr. E.D. Lyman, Health Director; Miss Beatrice Adams, Director of Preventable Disease Control; Mr. Matthew Severin, Laboratory Director, all of the Omaha-Douglas County Health Department, Nebraska; and an EIS Officer.)

ARBOVIRUS ENCEPHALITIS - 1965

Eastern Equine Encephalitis - New Jersey and Delaware

The seventh confirmed human case of Eastern equine encephalitis in the United States during 1965 has been reported from New Jersey. Occurring in Cape May County, this is the first and only serologically confirmed human case in New Jersey this year. The patient is a 60-year-old woman who became ill on October 9 with manifestations of severe encephalitis. She is now improving slowly but there is evidence of permanent damage to the central nervous system.

Between September 5 and October 8 there were five confirmed cases of EEE in horses in New Jersey and during the same period the virus was recovered from a pheasant flock in the same area. Across the border in Delaware, EEE virus was also recovered from three horses between September 22 and October 11.

An important and significant complementary finding this year in New Jersey has been the recovery of EEE virus from two pools of *Aedes sollicitans* on September 14 and 29. Prior to September there had been numerous isolations of EEE virus from pools of *Culiseta melanura* without any cases of human encephalitis appearing. It was only after the recovery of virus from *Aedes sollicitans* that a human case of EEE occurred.

This is the first time that EEE virus has been isolated from *Aedes sollicitans* although during the 1959

epidemic of EEE there was presumptive evidence that *Aedes sollicitans* was a vector of the disease to humans.

St. Louis Encephalitis - New Jersey

There have also been two human cases of St. Louis encephalitis in New Jersey with onsets of illness on September 19 and October 4 respectively. The first patient was a woman of 44 years who developed convulsions, high fever, headache, drowsiness, stuttering speech and tremor. The second patient was a man aged 41 years who complained of fever, vague myalgia, headache, mental confusion and vomiting. Both patients reside in Burlington County and both have made a good recovery from the illness. The laboratory confirmation of St. Louis encephalitis is based on the examination of single specimens of sera, from each of the patients, which showed high titers for SLE in hemoagglutination inhibition and neutralization tests.

(Reported by Dr. William J. Dougherty, Director of Preventable Disease Control Programs, New Jersey State Department of Health; Dr. Martin Goldfield, Director, and Drs. Oscar Susman and Ronald Altman of the New Jersey State Laboratories; Dr. Edward F. Gliwa, Deputy State Health Officer, Delaware State Board of Health; and the Arbovirus Unit of the Laboratory Branch of CDC.)

(Epidemiologic Notes and Reports continued on page 392)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
NOVEMBER 13, 1965 AND NOVEMBER 7, 1964 (45th WEEK)

Area	Aseptic Meningitis		Encephalitis		Poliomyelitis						Diphtheria	
			Primary	Post-Inf.	Total Cases			Paralytic			1965	Cum.
	1965	1964	1965	1965	1965	Cumulative		1965	Cumulative			
						1965	1964		1965	1964		
UNITED STATES...	39	56	45	6	-	51	104	-	37	83	5	140
NEW ENGLAND.....	3	2	-	-	-	-	2	-	-	2	-	2
Maine.....	-	-	-	-	-	-	1	-	-	1	-	-
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts.....	2	-	-	-	-	-	-	-	-	-	-	2
Rhode Island.....	1	2	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	1	-	-	1	-	-
MIDDLE ATLANTIC.....	6	5	13	-	-	5	15	-	4	13	1	6
New York City.....	2	-	6	-	-	1	2	-	-	2	-	3
New York, Up-State.....	-	3	2	-	-	1	10	-	1	9	1	1
New Jersey.....	4	2	5	-	-	3	3	-	3	2	-	-
Pennsylvania.....	-	-	-	-	-	-	-	-	-	-	-	2
EAST NORTH CENTRAL...	7	3	4	1	-	2	22	-	2	16	-	6
Ohio.....	-	-	-	-	-	-	2	-	-	2	-	1
Indiana.....	-	1	2	-	-	-	8	-	-	5	-	2
Illinois.....	4	1	1	1	-	1	6	-	1	5	-	2
Michigan.....	3	1	-	-	-	1	3	-	1	2	-	-
Wisconsin.....	-	-	1	-	-	-	3	-	-	2	-	1
WEST NORTH CENTRAL...	2	4	16	2	-	11	10	-	7	8	-	20
Minnesota.....	1	4	-	2	-	1	3	-	1	2	-	7
Iowa.....	1	-	13	-	-	5	1	-	2	1	-	1
Missouri.....	-	-	-	-	-	1	4	-	-	3	-	1
North Dakota.....	-	-	-	-	-	-	1	-	-	1	-	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	8
Nebraska.....	-	-	-	-	-	3	-	-	3	-	-	2
Kansas.....	-	-	3	-	-	1	1	-	1	1	-	1
SOUTH ATLANTIC.....	3	5	2	-	-	1	30	-	1	24	-	35
Delaware.....	-	-	-	-	-	-	-	-	-	-	-	-
Maryland.....	-	-	-	-	-	1	1	-	1	1	-	-
Dist. of Columbia..	-	2	-	-	-	-	-	-	-	-	-	3
Virginia.....	1	1	-	-	-	-	4	-	-	4	-	-
West Virginia.....	-	-	-	-	-	-	1	-	-	1	-	-
North Carolina.....	1	-	-	-	-	-	12	-	-	7	-	4
South Carolina.....	-	1	-	-	-	-	1	-	-	1	-	1
Georgia.....	-	-	-	-	-	-	2	-	-	2	-	18
Florida.....	1	1	2	-	-	-	9	-	-	8	-	9
EAST SOUTH CENTRAL...	3	8	1	-	-	3	6	-	1	5	3	27
Kentucky.....	1	7	1	-	-	1	-	-	-	-	-	-
Tennessee.....	-	1	-	-	-	2	3	-	1	2	-	2
Alabama.....	2	-	-	-	-	-	2	-	-	2	3	23
Mississippi.....	-	-	-	-	-	-	1	-	-	1	-	2
WEST SOUTH CENTRAL...	7	3	-	1	-	18	9	-	15	8	1	35
Arkansas.....	-	-	-	-	-	-	-	-	-	-	-	2
Louisiana.....	2	-	-	-	-	2	-	-	1	-	1	9
Oklahoma.....	-	-	-	-	-	2	3	-	2	2	-	1
Texas.....	5	3	-	1	-	14	6	-	12	6	-	23
MOUNTAIN.....	1	2	6	-	-	5	7	-	3	4	-	-
Montana.....	-	-	-	-	-	-	-	-	-	-	-	-
Idaho.....	-	-	-	-	-	-	1	-	-	1	-	-
Wyoming.....	-	-	-	-	-	-	2	-	-	2	-	-
Colorado.....	-	1	6	-	-	-	1	-	-	1	-	-
New Mexico.....	-	-	-	-	-	1	3	-	1	-	-	-
Arizona.....	-	1	-	-	-	4	-	-	2	-	-	-
Utah.....	1	-	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	7	24	3	2	-	6	3	-	4	3	-	9
Washington.....	1	1	-	-	-	2	-	-	2	-	-	3
Oregon.....	-	-	-	-	-	1	1	-	1	1	-	1
California.....	6	23	3	2	-	3	2	-	1	2	-	5
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	-	-	-	-	12

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 13, 1965 AND NOVEMBER 7, 1964 (45th 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...	8	523	227	270	29,211	33,105	45	2,633	2,408	6	234
NEW ENGLAND.....	-	24	7	16	1,664	2,992	3	133	76	-	5
Maine.....	-	7	3	4	292	936	-	17	6	-	-
New Hampshire.....	-	-	-	-	160	231	-	7	2	-	1
Vermont.....	-	-	-	-	88	359	-	8	4	-	-
Massachusetts.....	-	9	3	6	650	680	3	49	31	-	3
Rhode Island.....	-	5	-	5	185	182	-	14	10	-	-
Connecticut.....	-	3	1	1	289	604	-	38	23	-	1
MIDDLE ATLANTIC.....	-	79	30	49	5,124	7,305	7	344	312	1	15
New York City.....	-	14	4	10	1,057	1,129	1	58	44	-	-
New York, Up-State.....	-	36	18	18	1,903	3,176	1	98	91	1	6
New Jersey.....	-	10	1	9	963	1,231	3	88	102	-	2
Pennsylvania.....	-	19	7	12	1,201	1,769	2	100	75	-	7
EAST NORTH CENTRAL...	1	121	60	57	5,694	5,217	14	398	321	-	32
Ohio.....	-	30	16	14	1,552	1,376	5	107	85	-	3
Indiana.....	-	8	2	6	478	441	-	49	51	-	8
Illinois.....	1	30	15	14	1,077	969	1	103	83	-	15
Michigan.....	-	48	26	21	2,230	2,072	6	92	71	-	3
Wisconsin.....	-	5	1	2	357	359	2	47	31	-	3
WEST NORTH CENTRAL...	3	35	15	19	1,648	1,801	2	132	135	1	22
Minnesota.....	-	2	-	2	187	213	1	32	29	-	9
Iowa.....	3	4	1	3	548	310	-	12	8	-	4
Missouri.....	-	20	12	7	366	442	1	53	61	1	4
North Dakota.....	-	-	-	-	29	63	-	11	20	-	1
South Dakota.....	-	1	-	1	22	131	-	3	3	-	-
Nebraska.....	-	2	-	2	87	48	-	10	6	-	2
Kansas.....	-	6	2	4	409	594	-	11	8	-	2
SOUTH ATLANTIC.....	-	54	25	28	3,005	3,096	7	494	473	2	55
Delaware.....	-	2	-	2	78	68	-	10	6	-	-
Maryland.....	-	6	4	2	534	557	-	47	34	-	2
Dist. of Columbia..	-	3	-	3	44	64	-	10	16	-	-
Virginia.....	-	13	4	9	700	491	4	63	57	-	7
West Virginia.....	-	9	7	2	415	441	-	26	35	-	1
North Carolina.....	-	6	4	2	297	511	2	103	78	1	9
South Carolina.....	-	-	-	-	130	125	-	62	55	-	6
Georgia.....	-	2	1	1	106	103	-	59	79	-	8
Florida.....	-	13	5	7	701	736	1	114	113	1	22
EAST SOUTH CENTRAL...	-	42	21	12	2,112	2,281	1	202	188	1	32
Kentucky.....	-	19	7	4	770	809	1	78	65	-	8
Tennessee.....	-	15	11	3	704	802	-	64	56	-	10
Alabama.....	-	6	3	3	371	444	-	35	43	1	12
Mississippi.....	-	2	-	2	267	226	-	25	24	-	2
WEST SOUTH CENTRAL...	3	43	20	22	2,486	2,576	4	333	274	1	49
Arkansas.....	-	4	2	2	308	255	1	17	27	-	11
Louisiana.....	-	11	5	6	417	629	1	182	126	1	7
Oklahoma.....	1	-	-	-	53	125	1	21	13	-	1
Texas.....	2	28	13	14	1,708	1,567	1	113	108	-	30
MOUNTAIN.....	-	15	4	2	1,596	1,996	2	94	80	-	3
Montana.....	-	-	-	-	137	171	-	2	1	-	-
Idaho.....	-	-	-	-	191	280	-	11	3	-	-
Wyoming.....	-	4	1	1	45	80	-	5	5	-	-
Colorado.....	-	-	-	-	337	525	2	26	14	-	2
New Mexico.....	-	2	2	-	333	276	-	11	32	-	-
Arizona.....	-	7	-	-	342	439	-	19	8	-	1
Utah.....	-	2	1	1	196	174	-	17	7	-	-
Nevada.....	-	-	-	-	15	51	-	3	10	-	-
PACIFIC.....	1	110	45	65	5,882	5,841	5	503	549	-	21
Washington.....	-	7	2	5	441	589	-	39	43	-	-
Oregon.....	-	4	2	2	504	591	-	35	21	-	4
California.....	1	97	41	56	4,656	4,287	5	403	465	-	17
Alaska.....	-	-	-	-	207	260	-	18	7	-	-
Hawaii.....	-	2	-	2	74	114	-	8	13	-	-
Puerto Rico	-	25	19	6	1,261	911	-	11	34	2	54

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

NOVEMBER 13, 1965 AND NOVEMBER 7, 1964 (45th WEEK) - Continued

Area	Measles			Strept. Sore Th. & Scarlet Fev.	Tularemia		Typhoid Fever		Rabies in Animals	
	1965	Cumulative			1965	Cum. 1965	1965	Cum. 1965	1965	Cum. 1965
		1965	1964							
UNITED STATES...	1,235	247,419	469,679	6,701	2	223	6	381	87	3,761
NEW ENGLAND.....	30	37,066	18,294	748	-	1	-	7	1	45
Maine.....	17	2,873	3,210	164	-	-	-	-	-	4
New Hampshire.....	-	382	471	11	-	-	-	-	-	3
Vermont.....	-	1,344	2,362	25	-	-	-	-	1	32
Massachusetts.....	8	19,346	5,753	77	-	1	-	3	-	2
Rhode Island.....	-	3,950	2,099	38	-	-	-	1	-	-
Connecticut.....	5	9,171	4,399	433	-	-	-	3	-	4
MIDDLE ATLANTIC.....	155	15,669	52,770	179	-	-	-	64	9	188
New York City.....	45	2,647	15,426	2	-	-	-	29	-	-
New York, up-State.....	9	4,252	12,899	101	-	-	-	15	9	173
New Jersey.....	73	2,916	12,271	32	-	-	-	7	-	-
Pennsylvania.....	28	5,854	12,174	44	-	-	-	13	-	15
EAST NORTH CENTRAL...	414	57,680	103,898	609	-	14	1	42	39	582
Ohio.....	20	8,958	19,783	60	-	-	-	9	36	313
Indiana.....	23	2,073	22,971	163	-	5	1	10	1	66
Illinois.....	37	3,037	16,696	77	-	6	-	11	-	84
Michigan.....	119	26,962	29,186	198	-	2	-	7	2	58
Wisconsin.....	215	16,650	15,262	111	-	1	-	5	-	61
WEST NORTH CENTRAL...	94	16,942	30,543	375	-	28	-	14	13	760
Minnesota.....	8	723	340	8	-	1	-	1	2	156
Iowa.....	32	9,145	23,415	109	-	-	-	2	4	214
Missouri.....	13	2,622	1,048	56	-	20	-	9	5	113
North Dakota.....	41	3,881	4,880	89	-	-	-	-	1	46
South Dakota.....	-	115	40	20	-	3	-	-	1	57
Nebraska.....	-	456	820	1	-	-	-	2	-	36
Kansas.....	NN	NN	NN	92	-	4	-	-	-	138
SOUTH ATLANTIC.....	181	25,671	38,984	868	-	33	1	75	5	490
Delaware.....	-	508	415	8	-	-	-	4	-	-
Maryland.....	5	1,188	3,424	94	-	-	-	20	-	25
Dist. of Columbia..	-	83	355	-	-	-	-	-	-	-
Virginia.....	15	3,938	12,765	238	-	8	-	8	4	295
West Virginia.....	114	14,301	9,023	193	-	-	-	3	-	22
North Carolina.....	2	403	1,191	11	-	8	-	15	-	3
South Carolina.....	1	1,099	4,283	6	-	3	-	9	-	3
Georgia.....	5	623	205	2	-	14	1	11	-	67
Florida.....	39	3,528	7,323	316	-	-	-	5	1	75
EAST SOUTH CENTRAL...	83	14,577	68,414	1,085	-	22	1	42	9	779
Kentucky.....	28	2,859	18,647	107	-	3	-	10	1	85
Tennessee.....	53	8,232	24,608	805	-	18	1	14	8	637
Alabama.....	1	2,345	18,431	86	-	1	-	10	-	16
Mississippi.....	1	1,141	6,728	87	-	-	-	8	-	41
WEST SOUTH CENTRAL...	77	31,393	72,711	674	2	95	1	52	10	601
Arkansas.....	-	1,088	1,149	4	1	65	-	13	-	87
Louisiana.....	2	113	119	1	-	7	-	9	2	76
Oklahoma.....	4	215	1,025	21	-	11	1	8	2	130
Texas.....	71	29,977	70,418	648	1	12	-	22	6	308
MOUNTAIN.....	80	20,265	19,600	837	-	16	-	31	1	85
Montana.....	7	3,825	3,512	23	-	4	-	1	-	5
Idaho.....	22	2,887	2,010	84	-	-	-	-	-	-
Wyoming.....	1	854	275	10	-	4	-	1	-	-
Colorado.....	36	5,836	3,309	279	-	-	-	1	-	9
New Mexico.....	-	679	602	220	-	-	-	12	-	14
Arizona.....	6	1,381	6,718	117	-	-	-	13	1	54
Utah.....	2	4,589	2,182	104	-	8	-	1	-	2
Nevada.....	6	214	992	-	-	-	-	2	-	1
PACIFIC.....	121	28,156	64,465	1,326	-	14	2	54	-	231
Washington.....	33	7,352	20,366	468	-	-	-	7	-	8
Oregon.....	15	3,356	8,777	14	-	5	-	8	-	9
California.....	57	13,256	33,508	778	-	9	2	38	-	212
Alaska.....	5	197	1,135	33	-	-	-	-	-	2
Hawaii.....	11	3,995	679	33	-	-	-	1	-	-
Puerto Rico	16	2,645	6,869	18	-	-	1	15	-	13

Morbidity and Mortality Weekly Report

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Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 13, 1965

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(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:	686	436	31	41	SOUTH ATLANTIC:	1,179	616	58	87
Boston, Mass.-----	247	152	8	14	Atlanta, Ga.-----	115	63	4	5
Bridgeport, Conn.-----	27	20	5	3	Baltimore, Md.-----	236	124	11	12
Cambridge, Mass.-----	29	16	-	3	Charlotte, N. C.-----	55	22	1	6
Fall River, Mass.-----	28	22	1	2	Jacksonville, Fla.-----	55	25	2	6
Hartford, Conn.-----	42	27	1	1	Miami, Fla.-----	79	54	1	4
Lowell, Mass.-----	34	19	1	3	Norfolk, Va.-----	57	30	4	4
Lynn, Mass.-----	23	20	3	-	Richmond, Va.-----	93	45	1	6
New Bedford, Mass.-----	31	22	1	-	Savannah, Ga.-----	44	16	5	3
New Haven, Conn.-----	40	20	1	2	St. Petersburg, Fla.-----	86	67	9	3
Providence, R. I.-----	64	33	2	7	Tampa, Fla.-----	70	49	7	2
Somerville, Mass.-----	13	9	3	-	Washington, D. C.-----	247	99	10	33
Springfield, Mass.-----	34	24	3	1	Wilmington, Del.*-----	42	22	3	3
Waterbury, Conn.-----	36	23	-	3					
Worcester, Mass.-----	38	29	2	2	EAST SOUTH CENTRAL:	587	308	32	36
MIDDLE ATLANTIC:	3,211	1,862	118	146	Birmingham, Ala.-----	85	41	2	5
Albany, N. Y.-----	51	24	4	6	Chattanooga, Tenn.-----	33	21	4	1
Allentown, Pa.-----	39	23	4	2	Knoxville, Tenn.-----	52	34	-	1
Buffalo, N. Y.-----	134	79	4	8	Louisville, Ky.-----	111	62	9	7
Camden, N. J.-----	36	21	3	1	Memphis, Tenn.-----	127	58	6	7
Elizabeth, N. J.-----	34	13	4	5	Mobile, Ala.-----	47	20	2	4
Erie, Pa.-----	41	22	1	2	Montgomery, Ala.-----	37	17	2	4
Jersey City, N. J.-----	58	33	6	2	Nashville, Tenn.-----	95	55	7	7
Newark, N. J.-----	75	38	3	6	WEST SOUTH CENTRAL:	1,007	523	29	72
New York City, N. Y.-----	1,717	997	54	69	Austin, Tex.-----	37	23	6	2
Paterson, N. J.-----	35	19	1	3	Baton Rouge, La.-----	20	10	-	2
Philadelphia, Pa.-----	431	265	11	17	Corpus Christi, Tex.-----	32	15	-	7
Pittsburgh, Pa.-----	192	109	5	11	Dallas, Tex.-----	124	54	3	4
Reading, Pa.-----	38	27	-	-	El Paso, Tex.-----	29	19	2	4
Rochester, N. Y.-----	91	51	6	4	Fort Worth, Tex.-----	67	36	-	5
Schenectady, N. Y.-----	25	17	2	1	Houston, Tex.-----	166	79	5	9
Scranton, Pa.-----	36	21	1	1	Little Rock, Ark.-----	55	22	1	2
Syracuse, N. Y.*-----	58	35	1	3	New Orleans, La.-----	178	97	3	12
Trenton, N. J.-----	59	28	3	3	Oklahoma City, Okla.-----	80	41	1	7
Utica, N. Y.*-----	27	21	2	1	San Antonio, Tex.-----	99	56	1	8
Yonkers, N. Y.-----	34	19	3	1	Shreveport, La.-----	64	30	3	6
EAST NORTH CENTRAL:	2,417	1,390	78	153	Tulsa, Okla.-----	56	41	4	4
Akron, Ohio-----	61	36	1	4	MOUNTAIN:	358	202	14	20
Canton, Ohio-----	37	24	4	3	Albuquerque, N. Mex.-----	22	8	1	-
Chicago, Ill.-----	695	392	27	37	Colorado Springs, Colo.-----	13	6	1	3
Cincinnati, Ohio-----	156	110	4	4	Denver, Colo.-----	110	61	7	6
Cleveland, Ohio-----	199	117	4	20	Ogden, Utah-----	29	15	1	-
Columbus, Ohio-----	106	69	1	4	Phoenix, Ariz.-----	85	51	1	6
Dayton, Ohio-----	74	45	2	7	Pueblo, Colo.-----	13	11	-	3
Detroit, Mich.-----	358	179	14	26	Salt Lake City, Utah-----	34	22	2	2
Evansville, Ind.-----	35	21	1	1	Tucson, Ariz.-----	51	28	1	-
Flint, Mich.-----	48	19	1	8	PACIFIC:	1,312	736	31	66
Fort Wayne, Ind.-----	43	31	2	2	Berkeley, Calif.-----	14	11	-	-
Gary, Ind.-----	41	20	3	7	Fresno, Calif.-----	29	20	-	1
Grand Rapids, Mich.-----	47	29	2	4	Glendale, Calif.-----	21	16	-	1
Indianapolis, Ind.-----	122	71	2	6	Honolulu, Hawaii-----	53	22	1	1
Madison, Wis.-----	33	14	-	3	Long Beach, Calif.-----	64	41	2	3
Milwaukee, Wis.-----	130	74	1	4	Los Angeles, Calif.-----	364	193	11	24
Peoria, Ill.-----	38	21	-	5	Oakland, Calif.-----	62	33	-	4
Rockford, Ill.-----	24	15	4	3	Pasadena, Calif.-----	27	19	-	1
South Bend, Ind.-----	24	14	1	-	Portland, Oreg.-----	81	49	1	5
Toledo, Ohio-----	95	53	3	3	Sacramento, Calif.-----	72	44	3	3
Youngstown, Ohio-----	51	36	1	2	San Diego, Calif.-----	102	51	4	7
WEST NORTH CENTRAL:	713	421	18	51	San Francisco, Calif.-----	173	89	3	7
Des Moines, Iowa-----	61	41	1	2	San Jose, Calif.-----	42	23	-	3
Duluth, Minn.-----	24	20	-	2	Seattle, Wash.-----	113	62	3	2
Kansas City, Kans.-----	30	18	3	5	Spokane, Wash.-----	53	36	3	2
Kansas City, Mo.-----	119	65	3	4	Tacoma, Wash.-----	42	27	-	2
Lincoln, Nebr.-----	3	2	-	-					
Minneapolis, Minn.-----	115	63	4	13	Total	11,470	6,494	409	672
Omaha, Nebr.-----	67	40	3	3	Cumulative Totals				
St. Louis, Mo.-----	209	122	-	16	including reported corrections for previous weeks				
St. Paul, Minn.-----	51	33	1	4	All Causes, All Ages-----	551,991			
Wichita, Kans.-----	34	17	3	2	All Causes, Age 65 and over-----	311,589			
					Pneumonia and Influenza All Ages-----	22,187			
					All Causes, Under 1 Year of Age-----	32,641			

*Estimate - based on average percent of divisional total.

EPIDEMIOLOGIC NOTES AND REPORTS (Continued)

PLAGUE - Shasta County, California

Field studies, following the case of human plague in Viola, Shasta County, California, reported in the MMWR, Vol. 14, No. 38, have confirmed the presence of plague in squirrels in this area. *Pasteurella pestis* has been isolated from the tissues of a recently dead *Citellus beecheyi* found 250 yards south of the home of the 5-year-old boy who developed plague in September. Two other rodent carcasses which were too decomposed for species identification were also recovered from within a mile radius of the boy's home. Bone marrow scrapings from these specimens yielded presumptive positive findings for plague, using the fluorescent antibody technique. Two pools of fleas, *Diagnosis montanus*, obtained from animals and burrows in the same area have also been proved, by animal inoculation, to be positive for plague.

Serological studies were carried out on sera obtained from the boy's parents, his two playmates, the boy's pet dog and the playmates' dog. Only one serum, that from the boy's pet dog, gave a positive hemoagglutination inhibition test with a titer of 1:32.

(Reported by Dr. Henry Renteln, Bureau of Communicable Diseases, and Mr. Kerth Murray, Bureau of Vector Control of the California State Health Department; the San Francisco Field Station of CDC; and an EIS Officer.)

ERRATUM, Vol. 14, No. 43, p. 371:

Summary of Reported Cases of Infectious Syphilis

The U.S. total of cases of infectious syphilis for September 1965 should be recorded as 1,914 cases and not 1,194 cases.

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

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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.

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