



Morbidity and Mortality

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WEEKLY REPORT

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EPIDEMIOLOGIC NOTES AND REPORTS
GASTROENTERITIS, POSSIBLE WINTER VOMITING DISEASE - Connecticut

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Between Mar. 8 and 12, 1970, an outbreak of gastroenteritis occurred among the 6,173 full-time and 4,910 part-time students and the staff at a college in New Britain, Connecticut. During the outbreak, 468 students were treated in the infirmary (Figure 1); others were ill but did not seek medical attention. The illness generally consisted of an abrupt onset of abdominal discomfort, followed by nausea and vomiting and later diarrhea with some abdominal pain or cramping. Vomiting was the most prominent symptom in both frequency and severity in 137 students on whom detailed histories were obtained (Table 1). Initial temperatures were often normal or subnormal, and in those persons who became febrile, most of the temperatures were low grade although a few reached 102°F. Treatment was symp-

tomatic, and no students received antibiotics. The acute symptoms generally subsided within 8 hours, and most students were fully recovered within 36-48 hours. In the afternoon of March 12, all classes were suspended, and the already subsiding outbreak was terminated except for one case noted on March 14.

(Continued on page 182)

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

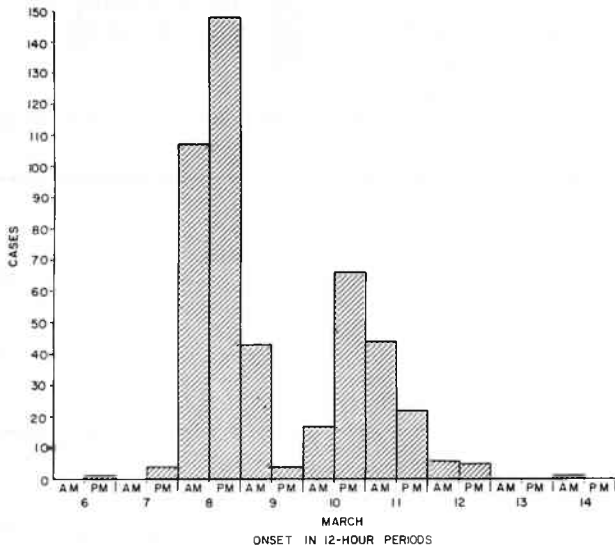
DISEASE	18th WEEK ENDED		MEDIAN 1965 - 1969	CUMULATIVE, FIRST 18 WEEKS		
	May 9, 1970	May 3, 1969		1970	1969	MEDIAN 1965 - 1969
Aseptic meningitis	34	25	27	491	515	515
Brucellosis	2	-	2	58	45	67
Diphtheria	12	4	1	120	49	51
Encephalitis, primary:						
Arthropod-borne & unspecified	24	21	23	357	354	431
Encephalitis, post-infectious	5	9	18	153	95	278
Hepatitis, serum	150	112	814	2,369	1,822	14,899
Hepatitis, infectious	1,108	887	76	19,582	16,582	1,534
Malaria	69	35	33	1,189	835	694
Measles (rubeola)	1,952	940	2,389	24,168	11,628	42,160
Meningococcal infections, total	54	76	76	1,211	1,568	1,534
Civilian	46	68	68	1,082	1,423	1,400
Military	8	8	6	129	145	134
Mumps	3,360	2,458	-	49,405	44,312	-
Poliomyelitis, total	-	-	1	1	1	7
Paralytic	-	-	-	1	1	5
Rubella (German measles)	3,088	2,519	-	33,244	26,373	-
Tetanus	2	1	2	31	37	37
Tularemia	-	1	2	33	31	49
Typhoid fever	2	13	7	78	84	97
Typhus, tick-borne (Rky. Mt. spotted fever)	6	5	3	11	10	11
Rabies in animals	69	81	84	1,190	1,400	1,605

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	1	Psittacosis: Tex.-1	13
Botulism:	1	Rabies in Man:	-
Leptosy: Calif.-3, Hawaii-1, Tex.-2	38	Rubella congenital syndrome:	29
Leptospirosis:	11	Trichinosis: Calif.-6, N.J.-2, NYC-1, Pa.-1	38
Plague:	-	Typhus, murine:	2

GASTROENTERITIS - (Continued from front page)

Figure 1
468 PATIENTS WITH GASTROENTERITIS SEEN AT THE COLLEGE INFIRMARY BY TIME OF ONSET NEW BRITAIN, CONNECTICUT - MARCH 8-14, 1970



Because of the sudden occurrence of gastroenteritis in a large number of people, a foodborne outbreak was suspected; however, a significant number of persons with the syndrome had not eaten meals on campus during the several days prior to their illness. In addition, 33 students who had eaten at the cafeteria during those days did not become ill. With the appearance of the second wave of illness 48 hours after the onset of the outbreak, the possibility of this being a foodborne outbreak became more remote. Furthermore,

Table 1
Symptoms Associated with Gastroenteritis of 137 Patients, A College, New Britain, Connecticut, March 8-14, 1970

Symptom	Number of Patients with Symptom	Percent
Vomiting	121	88
Diarrhea and Cramps	107	78
Fever	46	34

specimens of each food served in the cafeteria during the 48 hours prior to the outbreak were negative for organisms associated with food poisoning. Similarly, stool cultures on patients failed to grow any enteropathogenic bacteria. Samples of water from the cafeteria and from several dormitories showed no evidence of fecal contamination.

Throat and rectal swabs for virus isolation were obtained on 19 patients and acute and convalescent sera were obtained on 12. The only virus isolated was a parainfluenza type 1 from the throat of one student. There was no convalescent blood specimen obtained on this person, but none of the other patients' sera had a titer rise to this organism or to any other tested virus.

The clinical and epidemiologic features of this outbreak plus the failure to isolate a bacterial or viral agent suggested that the illnesses represented an outbreak of winter vomiting disease (MMWR, Vol. 17, No. 47).

(Reported by George Zalkan, M.D., Director of Health, New Britain Health Department; James C. Hart, M.D., Director, Division of Preventable Diseases, Connecticut State Department of Health; and an EIS Officer.)

INTERNATIONAL NOTES

ESCHERICHIA COLI - United Kingdom and Republic of Ireland

During 1969, laboratories in the United Kingdom and Republic of Ireland reported 6,546 cases of gastroenteritis in children under the age of 2 years from whom enteropathogenic *Escherichia coli* was isolated. This represents a considerable increase over the previous 2 years (4,807 cases in 1967 and 4,376 cases in 1968). The increase was probably largely due to reporting of types that were not routinely identified and recorded in earlier years. The serotypes reported in England and Wales are shown in Table 2; almost all the strains belonged to one of 10 common types. There were 77 incidents involving two or more related cases in which the same serotype was isolated. In most of these episodes, there were no more than five cases, and in only nine were there more than 10 cases. Sixty-two of the incidents were in hospital wards, 13 in nurseries, and the remaining three in children's homes. Twenty deaths associated with *E. coli* infection were reported, although this was not necessarily the primary cause in all cases.

A recently reported outbreak due to *E. coli* 055 took place in a premature baby unit. The organism was first isolated from the feces of two babies with symptoms of gastroenteritis. As a prophylactic measure all 12 babies in the unit were given a course of antibiotics (ampicillin 11, neomycin 1). The unit was closed, and feces from all babies, mothers, and staff were examined for the presence of enteropathogenic *E. coli*. Three days later, a full-term baby, who had been in the premature baby unit for 1 day before the outbreak began, developed watery stools from which *E. coli* 055 was isolated. At this time, the entire maternity unit was closed. Examination of feces from all babies, mothers, and staff revealed that two more premature babies, another full-term baby, and two nurses were excreting *E. coli* 055. The two nurses, who worked in the maternity wards, had been helping in the premature baby unit at a time relevant to the outbreak.

The infected babies were isolated, the affected wards were closed to new admissions, and movement of nursing

Table 2
Isolations of *Escherichia coli* - England and Wales, 1969

Serotypes	No. of Isolations	No. of Deaths	No. of Outbreaks*
018	15	1	1
020	4	1	0
026	821	0	11
028	4	0	0
044	24	0	1
055	689	5	10
086	594	0	7
111	883	4	10
114	233	4	9
119	421	0	4
124	2	0	0
125	429	0	8
126	422	1	4
127	326	2	3
128	513	2	9
Total	5,380	20	77

*Two or more related cases infected with the same serotype.

and domestic staff was stopped. All six infected babies were given a course of ampicillin. Two premature babies were severely ill and required intravenous infusion. The other babies either had no symptoms or were only mildly ill; none died. The duration of excretion of *E. coli* in cases and carriers varied from a few days to at least 28 days. The organisms were sensitive to all drugs tested (sulfafurazole, septrin, streptomycin, chloramphenicol, tetracycline, ampicillin, carbenicillin, cephaloridine, kanamycin, gentamycin, and polymyxin B).

Swabs from various sites in the wards and nurseries (floors, sinks, laundry bins, and dust from the vacuum cleaner) failed to yield the epidemic strain. After the infected babies had been discharged, the feces of all remaining patients and staff were again screened, the floors and walls of the wards were washed, curtains and bedding were laundered, and all ward furniture was cleaned before reopening the wards.

(From notes based on reports to the Public Health Laboratory Service from Public Health and Hospital Laboratories in the United Kingdom and Republic of Ireland, published in the British Medical Journal dated Apr. 4, 1970.)

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas April 1969 and April 1970 - Provisional Data

Reporting Area	April		Cumulative Jan.-Apr.		Reporting Area	April		Cumulative Jan.-Apr.	
	1970	1969	1970	1969		1970	1969	1970	1969
NEW ENGLAND.....	47	30	182	108	EAST SOUTH CENTRAL.....	64	81	208	371
Maine.....	-	1	5	1	Kentucky.....	19	16	51	75
New Hampshire.....	1	-	2	1	Tennessee.....	12	28	62	128
Vermont.....	1	-	1	-	Alabama.....	14	22	44	71
Massachusetts.....	32	21	112	65	Mississippi.....	19	15	51	97
Rhode Island.....	3	1	15	12	WEST SOUTH CENTRAL.....	352	329	1,133	1,191
Connecticut.....	10	7	48	29	Arkansas.....	15	10	74	44
MIDDLE ATLANTIC.....	502	311	1,718	1,260	Louisiana.....	88	66	220	237
Upstate New York.....	35	27	124	100	Oklahoma.....	9	16	30	32
New York City.....	341	208	1,241	863	Texas.....	240	237	809	878
Pa. (Excl. Phila.).....	13	4	43	46	MOUNTAIN.....	47	45	192	193
Philadelphia.....	19	23	63	73	Montana.....	-	1	1	1
New Jersey.....	94	49	247	178	Idaho.....	-	1	1	2
EAST NORTH CENTRAL.....	211	206	862	835	Wyoming.....	-	1	-	4
Ohio.....	37	30	133	129	Colorado.....	4	3	20	20
Indiana.....	39	22	164	111	New Mexico.....	10	22	37	87
Downstate Illinois.....	13	21	44	87	Arizona.....	19	13	90	63
Chicago.....	76	76	289	288	Utah.....	2	-	4	-
Michigan.....	36	55	198	217	Nevada.....	12	4	39	16
Wisconsin.....	10	2	34	3	PACIFIC.....	264	153	796	566
WEST NORTH CENTRAL.....	38	21	180	102	Washington.....	7	4	17	14
Minnesota.....	7	2	30	9	Oregon.....	-	1	8	14
Iowa.....	1	5	4	17	California.....	255	148	765	537
Missouri.....	22	6	91	51	Alaska.....	2	-	3	1
North Dakota.....	1	1	2	2	Hawaii.....	-	-	3	-
South Dakota.....	-	2	6	6	U. S. TOTAL.....	1,938	1,549	6,861	6,203
Nebraska.....	4	3	11	10	TERRITORIES.....	81	120	360	436
Kansas.....	3	2	36	7	Puerto Rico.....	76	120	347	424
SOUTH ATLANTIC.....	413	373	1,590	1,577	Virgin Islands.....	5	-	13	12
Delaware.....	24	8	54	12	Note: Cumulative Totals include revised and delayed reports through previous months.				
Maryland.....	41	43	163	151					
District of Columbia.....	36	47	156	169					
Virginia.....	18	23	82	77					
West Virginia.....	-	2	7	4					
North Carolina.....	41	43	178	177					
South Carolina.....	40	40	125	193					
Georgia.....	110	75	402	320					
Florida.....	103	92	423	474					

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
MAY 9, 1970 AND MAY 3, 1969 (18th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1970	Cum. 1970
				1970	1969	1970	1970	1970	1969		
UNITED STATES.....	34	2	12	24	21	5	150	1,108	887	69	1,189
NEW ENGLAND.....	2	-	2	1	-	-	5	87	66	1	38
Maine.....	-	-	-	-	-	-	-	10	2	1	3
New Hampshire.....	-	-	-	1	-	-	-	2	2	-	3
Vermont.....	-	-	-	-	-	-	-	2	1	-	20
Massachusetts.....	1	-	-	-	-	-	1	45	29	-	5
Rhode Island.....	1	-	2	-	-	-	-	14	22	-	7
Connecticut.....	-	-	-	-	-	-	4	14	10	-	-
MIDDLE ATLANTIC.....	6	-	-	3	2	-	37	196	133	13	136
New York City.....	-	-	-	-	-	-	19	70	53	-	25
New York, Up-State...	-	-	-	1	-	-	7	39	25	10	39
New Jersey.....	4	-	-	-	1	-	9	62	20	-	37
Pennsylvania.....	2	-	-	2	1	-	2	25	35	3	35
EAST NORTH CENTRAL.....	3	-	-	8	8	1	34	188	153	1	56
Ohio.....	1	-	-	6	2	1	7	54	26	-	16
Indiana.....	1	-	-	-	2	-	-	12	14	1	4
Illinois.....	-	-	-	1	1	-	3	44	37	-	8
Michigan.....	1	-	-	-	3	-	24	68	69	-	28
Wisconsin.....	-	-	-	1	-	-	-	10	7	-	-
WEST NORTH CENTRAL.....	-	-	-	1	-	-	7	45	34	3	83
Minnesota.....	-	-	-	-	-	-	-	6	5	-	1
Iowa.....	-	-	-	-	-	-	-	15	9	-	7
Missouri.....	-	-	-	-	-	-	-	5	4	-	14
North Dakota.....	-	-	-	-	-	-	-	2	2	-	1
South Dakota.....	-	-	-	-	-	-	-	-	2	-	1
Nebraska.....	-	-	-	-	-	-	-	1	-	-	59
Kansas.....	-	-	-	1	-	-	7	16	12	3	-
SOUTH ATLANTIC.....	4	1	-	4	3	2	14	122	93	16	209
Delaware.....	-	-	-	-	-	-	-	-	1	-	1
Maryland.....	-	-	-	-	-	1	1	12	21	1	22
Dist. of Columbia....	-	-	-	-	-	-	-	-	-	-	2
Virginia.....	-	-	-	1	1	-	2	22	12	3	19
West Virginia.....	-	-	-	-	-	-	-	5	3	-	1
North Carolina.....	-	-	-	-	1	-	4	31	3	2	91
South Carolina.....	1	-	-	1	-	-	-	1	4	1	17
Georgia.....	-	-	-	-	-	-	-	10	14	5	39
Florida.....	3	1	-	2	1	1	7	41	35	4	17
EAST SOUTH CENTRAL.....	4	1	-	1	2	-	2	63	49	8	99
Kentucky.....	1	-	-	-	-	-	-	22	16	3	85
Tennessee.....	2	-	-	-	1	-	2	14	20	-	-
Alabama.....	1	1	-	-	-	-	-	17	13	4	11
Mississippi.....	-	-	-	1	1	-	-	10	-	1	3
WEST SOUTH CENTRAL.....	3	-	3	1	1	1	5	73	81	2	239
Arkansas.....	-	-	-	-	-	-	-	-	2	-	4
Louisiana.....	-	-	-	1	1	-	2	9	16	1	15
Oklahoma.....	-	-	-	-	-	-	-	17	7	-	28
Texas.....	3	-	3	-	-	1	3	47	56	1	192
MOUNTAIN.....	2	-	6	2	-	-	6	72	40	16	106
Montana.....	2	-	2	2	-	-	-	3	-	2	4
Idaho.....	-	-	-	-	-	-	-	5	-	1	2
Wyoming.....	-	-	-	-	-	-	-	1	2	-	-
Colorado.....	-	-	-	-	-	-	3	35	22	12	92
New Mexico.....	-	-	-	-	-	-	-	4	-	-	3
Arizona.....	-	-	4	-	-	-	-	7	7	1	2
Utah.....	-	-	-	-	-	-	3	4	8	-	-
Nevada.....	-	-	-	-	-	-	-	13	1	-	-
PACIFIC.....	10	-	1	3	5	1	40	262	238	9	223
Washington.....	-	-	-	-	1	-	-	36	35	-	12
Oregon.....	-	-	1	-	-	-	-	15	6	2	11
California.....	8	-	-	3	4	1	40	187	197	6	157
Alaska.....	-	-	-	-	-	-	-	3	-	-	-
Hawaii.....	2	-	-	-	-	-	-	21	-	1	43
Puerto Rico.....	-	-	-	-	-	-	2	17	10	-	-
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed Reports: Aseptic Meningitis: Indiana delete 1
Encephalitis, primary: Ohio delete 1, Oklahoma 2
Hepatitis, serum: New Jersey delete 1
Hepatitis, infectious: New Jersey delete 4

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 9, 1970 AND MAY 3, 1969 (18th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1970	Cumulative		1970	Cumulative		1970	Cum. 1970	Total 1970	Paralytic	
		1970	1969		1970	1969				1970	1970
UNITED STATES.....	1,952	24,168	11,628	54	1,211	1,568	3,360	49,405	-	-	1
NEW ENGLAND.....	50	503	577	5	48	46	413	6,224	-	-	-
Maine.....	2	12	4	1	1	4	23	563	-	-	-
New Hampshire.....	-	15	166	2	5	-	-	217	-	-	-
Vermont.....	1	2	2	-	5	-	46	517	-	-	-
Massachusetts*.....	32	406	80	2	18	21	132	2,032	-	-	-
Rhode Island.....	-	15	17	-	3	4	113	801	-	-	-
Connecticut.....	15	53	308	-	16	17	99	2,094	-	-	-
MIDDLE ATLANTIC.....	143	3,062	4,132	9	211	235	320	5,037	-	-	-
New York City.....	40	535	2,867	-	50	41	97	1,602	-	-	-
New York, Up-State...	6	118	379	1	42	39	NN	NN	-	-	-
New Jersey.....	77	1,245	492	7	80	102	146	1,501	-	-	-
Pennsylvania.....	20	1,164	394	1	39	53	77	1,934	-	-	-
EAST NORTH CENTRAL.....	540	5,554	1,196	6	140	199	942	12,545	-	-	-
Ohio.....	239	2,191	172	3	62	71	170	1,973	-	-	-
Indiana.....	6	188	357	1	16	25	58	1,221	-	-	-
Illinois.....	119	2,028	202	1	31	35	63	1,141	-	-	-
Michigan.....	77	649	113	1	27	55	187	2,981	-	-	-
Wisconsin.....	99	498	352	-	4	13	464	5,229	-	-	-
WEST NORTH CENTRAL.....	67	2,143	366	1	60	76	115	2,824	-	-	-
Minnesota.....	-	26	1	-	7	16	34	282	-	-	-
Iowa.....	7	80	229	-	7	10	46	1,817	-	-	-
Missouri.....	31	793	14	1	41	27	2	89	-	-	-
North Dakota.....	8	238	6	-	2	-	9	222	-	-	-
South Dakota.....	10	74	-	-	-	-	-	2	-	-	-
Nebraska.....	6	882	113	-	2	9	24	327	-	-	-
Kansas.....	5	50	3	-	1	14	-	85	-	-	-
SOUTH ATLANTIC.....	418	4,542	1,669	10	265	279	336	5,173	-	-	-
Delaware.....	6	197	170	-	3	4	8	122	-	-	-
Maryland.....	106	973	28	1	25	27	35	411	-	-	-
Dist. of Columbia....	2	310	-	-	1	8	10	133	-	-	-
Virginia.....	82	1,161	682	1	23	32	136	1,212	-	-	-
West Virginia.....	26	154	141	-	5	12	34	1,389	-	-	-
North Carolina.....	58	475	141	1	53	46	NN	NN	-	-	-
South Carolina.....	18	349	83	2	27	41	18	526	-	-	-
Georgia.....	-	4	1	1	28	42	-	-	-	-	-
Florida.....	120	919	423	4	100	67	95	1,380	-	-	-
EAST SOUTH CENTRAL.....	145	532	60	-	90	85	157	3,014	-	-	-
Kentucky.....	105	315	28	-	34	25	73	1,165	-	-	-
Tennessee.....	23	149	15	-	35	36	77	1,666	-	-	-
Alabama.....	15	39	-	-	17	14	6	164	-	-	-
Mississippi.....	2	29	17	-	4	10	1	19	-	-	-
WEST SOUTH CENTRAL.....	387	5,636	2,680	6	176	230	421	5,006	-	-	1
Arkansas.....	-	20	3	-	15	23	8	76	-	-	-
Louisiana.....	-	51	73	-	44	64	2	14	-	-	-
Oklahoma.....	56	240	108	1	11	23	231	1,807	-	-	-
Texas.....	331	5,325	2,496	5	106	120	180	3,109	-	-	1
MOUNTAIN.....	52	994	295	1	17	32	160	2,242	-	-	-
Montana.....	-	14	4	-	-	4	23	419	-	-	-
Idaho.....	3	17	38	-	3	5	2	70	-	-	-
Wyoming.....	-	8	-	-	1	-	1	30	-	-	-
Colorado.....	9	99	36	-	5	6	60	712	-	-	-
New Mexico.....	8	127	124	-	-	6	17	458	-	-	-
Arizona*.....	27	703	90	1	6	8	36	459	-	-	-
Utah.....	5	19	2	-	2	1	21	94	-	-	-
Nevada.....	-	7	1	-	-	2	-	-	-	-	-
PACIFIC.....	150	1,202	653	16	204	386	496	7,340	-	-	-
Washington.....	38	147	45	9	31	49	137	3,023	-	-	-
Oregon.....	7	133	140	-	17	9	41	559	-	-	-
California.....	89	852	458	7	155	310	294	2,964	-	-	-
Alaska.....	16	21	4	-	-	10	13	290	-	-	-
Hawaii.....	-	49	6	-	1	8	11	504	-	-	-
Puerto Rico.....	25	693	348	1	3	9	19	455	-	-	-
Virgin Islands.....	-	5	3	-	1	-	-	1	-	-	-

*Delayed Reports: Measles: Mass. delete 23
Meningococcal Infections: Ariz. 1
Mumps: W. Va. 5

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MAY 9, 1970 AND MAY 3, 1969 (18th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES.....	3,088	33,244	2	31	-	33	2	78	6	11	69	1,190
NEW ENGLAND.....	100	1,509	-	3	-	-	1	3	-	-	2	46
Maine.....	34	262	-	-	-	-	-	-	-	-	2	10
New Hampshire.....	2	114	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	31	-	-	-	-	-	-	-	-	-	34
Massachusetts.....	48	693	-	2	-	-	1	2	-	-	-	1
Rhode Island.....	4	44	-	4	-	-	-	-	-	-	-	1
Connecticut.....	12	365	-	1	-	-	-	1	-	-	-	1
MIDDLE ATLANTIC.....	325	2,490	-	3	-	-	-	19	-	-	7	103
New York City.....	48	351	-	1	-	-	-	7	-	-	-	98
New York, Up-State..	16	230	-	-	-	-	-	5	-	-	5	-
New Jersey.....	56	629	-	1	-	-	-	2	-	-	-	5
Pennsylvania.....	205	1,280	-	1	-	-	-	5	-	-	2	-
EAST NORTH CENTRAL....	624	7,021	1	8	-	15	-	12	-	-	5	79
Ohio.....	206	1,324	-	-	-	2	-	5	-	-	-	27
Indiana*.....	131	1,412	-	1	-	12	-	1	-	-	-	3
Illinois.....	81	959	-	3	-	1	-	1	-	-	2	24
Michigan.....	89	1,775	1	4	-	-	-	5	-	-	1	7
Wisconsin.....	117	1,551	-	-	-	-	-	-	-	-	2	18
WEST NORTH CENTRAL....	206	2,562	-	1	-	4	-	1	-	-	3	167
Minnesota.....	1	82	-	-	-	-	-	1	-	-	1	37
Iowa.....	96	1,599	-	-	-	-	-	-	-	-	1	29
Missouri.....	4	254	-	-	-	3	-	-	-	-	1	38
North Dakota.....	7	98	-	-	-	1	-	-	-	-	-	17
South Dakota.....	-	1	-	1	-	-	-	-	-	-	-	17
Nebraska.....	78	487	-	-	-	-	-	-	-	-	-	2
Kansas.....	20	41	-	-	-	-	-	-	-	-	-	27
SOUTH ATLANTIC.....	367	4,372	1	8	-	4	-	11	3	5	13	282
Delaware.....	-	35	-	-	-	-	-	-	-	-	-	1
Maryland.....	9	189	-	-	-	-	-	3	-	-	-	-
Dist. of Columbia...	1	13	-	1	-	-	-	-	-	-	-	136
Virginia.....	52	518	-	-	-	-	-	1	-	2	6	66
West Virginia.....	32	915	-	-	-	-	-	-	-	-	1	1
North Carolina.....	6	19	-	-	-	3	-	1	-	-	-	-
South Carolina.....	21	421	-	-	-	-	-	-	3	3	-	43
Georgia.....	-	-	-	1	-	-	-	4	-	-	1	35
Florida.....	246	2,262	1	6	-	1	-	2	-	-	5	-
EAST SOUTH CENTRAL....	160	1,624	-	1	-	2	1	4	1	1	1	103
Kentucky.....	67	564	-	-	-	1	-	1	-	-	-	59
Tennessee.....	93	810	-	-	-	1	-	-	1	1	1	29
Alabama.....	-	204	-	1	-	-	1	3	-	-	-	15
Mississippi.....	-	46	-	-	-	-	-	-	-	-	-	-
WEST SOUTH CENTRAL....	575	6,296	-	4	-	7	-	6	1	3	21	221
Arkansas.....	2	30	-	3	-	2	-	3	-	1	3	30
Louisiana.....	2	92	-	1	-	-	-	1	-	-	1	40
Oklahoma.....	40	671	-	-	-	4	-	-	1	2	10	45
Texas.....	531	5,503	-	-	-	1	-	2	-	-	7	106
MOUNTAIN.....	138	1,298	-	-	-	1	-	5	1	2	5	48
Montana.....	22	265	-	-	-	-	-	1	-	-	-	-
Idaho.....	18	84	-	-	-	-	-	-	-	-	-	-
Wyoming.....	-	131	-	-	-	-	-	-	1	1	1	30
Colorado.....	27	220	-	-	-	-	-	1	-	1	5	8
New Mexico.....	18	130	-	-	-	-	-	3	-	-	-	10
Arizona*.....	36	334	-	-	-	-	-	-	-	-	-	-
Utah.....	17	134	-	-	-	1	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	593	6,072	-	3	-	-	-	17	-	-	12	141
Washington.....	269	3,035	-	-	-	-	-	1	-	-	-	1
Oregon.....	20	425	-	1	-	-	-	-	-	-	-	140
California.....	296	2,393	-	2	-	-	-	14	-	-	12	-
Alaska.....	1	74	-	-	-	-	-	1	-	-	-	-
Hawaii.....	7	145	-	-	-	-	-	1	-	-	-	-
Puerto Rico.....	1	18	1	4	-	-	-	2	-	-	2	-
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-	-

*Delayed Reports: Typhoid Fever: Indiana delete 1
Rabies in Animals: Arizona 1

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MAY 9, 1970

(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:	695	458	38	27	SOUTH ATLANTIC:	1,206	636	42	57
Boston, Mass.-----	208	118	17	9	Atlanta, Ga.-----	116	51	7	5
Bridgeport, Conn.-----	53	40	2	2	Baltimore, Md.-----	246	122	4	8
Cambridge, Mass.-----	29	20	3	-	Charlotte, N. C.-----	55	27	-	3
Fall River, Mass.-----	22	18	-	-	Jacksonville, Fla.-----	79	35	1	6
Hartford, Conn.-----	56	30	1	5	Miami, Fla.-----	98	55	-	-
Lowell, Mass.-----	19	14	-	-	Norfolk, Va.-----	52	22	5	6
Lynn, Mass.-----	17	15	-	1	Richmond, Va.-----	98	47	6	12
New Bedford, Mass.-----	36	20	-	-	Savannah, Ga.-----	40	23	1	1
New Haven, Conn.-----	61	45	3	4	St. Petersburg, Fla.-----	95	75	-	3
Providence, R. I.-----	61	38	3	1	Tampa, Fla.-----	77	48	8	3
Somerville, Mass.-----	16	12	2	1	Washington, D. C.-----	188	102	4	7
Springfield, Mass.-----	45	34	5	-	Wilmington, Del.-----	62	29	6	3
Waterbury, Conn.-----	26	19	-	1					
Worcester, Mass.-----	46	35	2	3	EAST SOUTH CENTRAL:	649	338	33	29
MIDDLE ATLANTIC:	3,263	1,958	108	234	Birmingham, Ala.-----	66	37	-	3
Albany, N. Y.-----	56	38	-	2	Chattanooga, Tenn.-----	57	35	10	1
Allentown, Pa.-----	35	25	1	-	Knoxville, Tenn.-----	46	25	-	1
Buffalo, N. Y.-----	164	106	6	6	Louisville, Ky.-----	126	65	8	5
Camden, N. J.-----	49	27	3	7	Memphis, Tenn.-----	145	71	5	7
Elizabeth, N. J.-----	44	25	1	3	Mobile, Ala.-----	97	49	3	6
Erie, Pa.-----	36	22	-	2	Montgomery, Ala.-----	27	15	4	-
Jersey City, N. J.-----	74	45	7	6	Nashville, Tenn.-----	85	41	3	6
Newark, N. J.-----	95	25	3	34					
New York City, N. Y.†	1,635	979	51	111	WEST SOUTH CENTRAL:	1,159	584	49	63
Paterson, N. J.-----	23	16	1	1	Austin, Tex.-----	38	23	5	2
Philadelphia, Pa.†	486	280	6	35	Baton Rouge, La.-----	40	21	-	-
Pittsburgh, Pa.-----	190	109	11	11	Corpus Christi, Tex.-----	23	6	1	3
Reading, Pa.-----	37	28	-	1	Dallas, Tex.-----	145	66	7	11
Rochester, N. Y.-----	102	69	7	5	El Paso, Tex.-----	54	25	4	8
Schenectady, N. Y.-----	36	30	2	1	Fort Worth, Tex.-----	92	55	7	7
Scranton, Pa.-----	31	23	1	-	Houston, Tex.-----	237	110	2	1
Syracuse, N. Y.-----	76	51	2	4	Little Rock, Ark.-----	52	33	1	5
Trenton, N. J.-----	36	15	3	3	New Orleans, La.-----	166	78	3	10
Utica, N. Y.-----	25	18	2	-	Oklahoma City, Okla.-----	83	38	1	1
Yonkers, N. Y.-----	33	27	1	2	San Antonio, Tex.-----	110	62	5	9
					Shreveport, La.-----	57	28	4	3
					Tulsa, Okla.-----	62	39	9	3
EAST NORTH CENTRAL:	2,499	1,405	75	125	MOUNTAIN:	491	285	27	31
Akron, Ohio-----	65	38	1	5	Albuquerque, N. Mex.-----	51	30	7	5
Canton, Ohio-----	34	17	1	1	Colorado Springs, Colo.-----	30	16	2	1
Chicago, Ill.-----	673	370	18	31	Denver, Colo.-----	138	74	7	11
Cincinnati, Ohio-----	164	88	7	7	Ogden, Utah-----	19	12	2	-
Cleveland, Ohio-----	194	105	9	9	Phoenix, Ariz.-----	111	68	-	4
Columbus, Ohio-----	137	61	-	8	Pueblo, Colo.-----	20	13	2	1
Dayton, Ohio-----	69	45	-	3	Salt Lake City, Utah-----	60	35	1	6
Detroit, Mich.-----	333	185	8	15	Tucson, Ariz.-----	62	37	6	3
Evansville, Ind.-----	48	31	2	1					
Flint, Mich.-----	59	29	3	6	PACIFIC:	1,617	976	46	61
Fort Wayne, Ind.-----	43	27	3	1	Berkeley, Calif.-----	25	21	1	-
Gary, Ind.-----	29	11	1	2	Fresno, Calif.-----	45	25	2	4
Grand Rapids, Mich.-----	64	50	6	2	Glendale, Calif.-----	31	19	1	-
Indianapolis, Ind.-----	143	68	1	11	Honolulu, Hawaii-----	41	25	2	2
Madison, Wis.-----	37	16	3	1	Long Beach, Calif.-----	92	53	4	3
Milwaukee, Wis.-----	100	71	3	6	Los Angeles, Calif.-----	553	340	14	16
Peoria, Ill.-----	42	27	2	2	Oakland, Calif.-----	71	43	-	2
Rockford, Ill.-----	28	18	2	4	Pasadena, Calif.-----	42	31	3	-
South Bend, Ind.-----	36	20	1	-	Portland, Oreg.-----	135	83	6	4
Toledo, Ohio-----	128	87	3	5	Sacramento, Calif.-----	70	44	1	6
Youngstown, Ohio-----	73	41	1	5	San Diego, Calif.-----	114	59	-	9
					San Francisco, Calif.-----	167	98	6	2
WEST NORTH CENTRAL:	824	525	18	32	San Jose, Calif.-----	41	22	2	4
Des Moines, Iowa-----	60	36	1	1	Seattle, Wash.-----	101	60	4	4
Duluth, Minn.-----	28	18	3	1	Spokane, Wash.-----	54	32	-	3
Kansas City, Kans.-----	35	16	-	2	Tacoma, Wash.-----	35	21	-	2
Kansas City, Mo.-----	133	88	3	3					
Lincoln, Nebr.-----	37	24	-	4	Total	12,403	7,165	436	659
Minneapolis, Minn.-----	121	78	4	5	Expected Number	12,581	7,329	412	482
Omaha, Nebr.-----	80	43	4	5	Cumulative Total	246,636	142,247	11,229	11,147
St. Louis, Mo.-----	216	135	2	9	(includes reported corrections				
St. Paul, Minn.-----	72	54	1	1	for previous weeks)				
Wichita, Kans.-----	42	33	4	1					
Las Vegas, Nev.*	23	5	2	2					

*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.

† Estimated - based on average percent of divisional total

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In the article "Epidemiologic Notes and Reports, Outbreak of Tuberculosis - Alabama," in the first sentence of the first paragraph, the phrase ". . . active far advanced pulmonary tuberculosis. . . ." should be changed to ". . . active moderately advanced pulmonary tuberculosis. . . ."

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 21,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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ATLANTA, GEORGIA 30333

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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