



# Morbidity and Mortality

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

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In Africa, only a few sporadic cases of yellow fever were reported in 1970 in contrast to the series of outbreaks which occurred in several African countries in 1969. At that time, a total of 322 cases and 119 deaths were reported in Ghana, Mali, Nigeria, Togo, and Upper Volta. In 1970, however, 21 cases with 11 deaths were recorded in Cameroon, Equatorial Guinea, Ghana, Nigeria, and Togo (Table 1).

In Nigeria, two cases in the Plateau Province in January and February 1970 and one case in Bauchi Province in February may have been associated with the outbreak of the previous year. One case in the Lagos urban area in July 1970 was undoubtedly imported from one of the endemic foci. The occurrence of these sporadic cases indicates that man ceased to be a source of infection after the 1969 outbreak but that the jungle cycle continued. Approximately 400,000 vaccinations were performed in the 1969 epidemic areas, but an

estimated 4-6 million additional vaccinations are needed to achieve a satisfactory level of immunity in the populations at risk.

In Ghana in 1970, cases occurred in areas remote from those involved in the 1969 outbreak in the Upper Region. Eleven cases with six deaths, mainly among adults, were re-

*(Continued on page 332)*

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

DISEASE	37th WEEK ENDED		MEDIAN 1966 - 1970	CUMULATIVE, FIRST 37 WEEKS		
	September 18, 1971	September 19, 1970		1971	1970	MEDIAN 1966 - 1970
Aseptic meningitis . . . . .	196	338	181	3,321	3,482	2,022
Brucellosis . . . . .	2	4	5	116	148	161
Diphtheria . . . . .	2	22	9	111	294	132
Encephalitis, primary:						
Arthropod-borne & unspecified . . . . .	36	32	55	1,003	985	985
Encephalitis, post-infectious . . . . .	1	4	6	279	324	375
Hepatitis, serum . . . . .	173	138	89	6,071	5,085	3,043
Hepatitis, infectious . . . . .	1,332	1,124	965	42,966	39,655	31,250
Malaria . . . . .	32	49	49	2,227	2,385	1,579
Measles (rubeola) . . . . .	185	134	134	69,738	39,621	39,621
Meningococcal infections, total . . . . .	14	38	28	1,771	1,883	2,030
Civilian . . . . .	13	37	28	1,577	1,694	1,851
Military . . . . .	1	1	1	194	189	189
Mumps . . . . .	629	570	---	99,795	76,119	---
Poliomyelitis, total . . . . .	—	—	—	11	17	26
Paralytic . . . . .	—	—	—	7	17	22
Rubella (German measles) . . . . .	218	312	232	38,563	49,577	43,912
Tetanus . . . . .	3	3	6	75	84	112
Tularemia . . . . .	5	3	5	126	103	124
Typhoid fever . . . . .	12	12	14	247	219	261
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	11	8	9	349	300	262
Rabies in animals . . . . .	59	50	60	2,973	2,235	2,558

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	4	Psittacosis: . Calif. -1, Ga. -1 . . . . .	27
Botulism: . . . . .	10	Rabies in Man: . . . . .	1
Leprosy: . . . . .	93	Rubella congenital syndrome: . . . . .	41
Leptospirosis: . . . . .	25	Trichinosis:*. Calif. -2 . . . . .	63
Plague: . . . . .	1	Typhus, murine: . . . . .	17

\*Delayed reports: Trichinosis: Ariz.: 2

## YELLOW FEVER — (Continued from front page)

Table 1  
Yellow Fever  
Reported Numbers of Cases and Deaths in Africa, 1969-70

Country	1969		1970	
	Cases	Deaths	Cases	Deaths
Cameroon	—	—	1	1
Equatorial Guinea	—	—	2	—
Ghana	5	2	12	7
Mali	21*	12	—	—
Nigeria	208*	60	4	1
Togo	1	1	2	2
Upper Volta	87	44	—	—
Total	322	119	21	11

ported in April and May in two districts of the Eastern Region, approximately 35 to 60 miles from Accra. These cases were scattered among several villages. Reported cases were confirmed by serology or histopathology. Epidemiologic field investigations revealed that a few other deaths following illnesses compatible with yellow fever occurred in several villages in the preceding months. This episode of sporadic cases took place in a formerly known endemic focus in which there is a characteristic transition from forest to cocoa-farming areas. In the past, cases of yellow fever occurred repeatedly in this focus in the Akwatia-Oda-Asamankese-Odaiso areas, particularly in 1950-54. A case was also reported in Sunyani District, Brong-Ahafo Region, in the western part of the country in December 1970. A vaccination program was implemented, and approximately 233,500 vaccinations were performed in 1969 and 364,000 in 1970.

Togo reported one case of yellow fever in 1969 in the Circonscription of Dapango in the north and two more cases in 1970 in Palimé Circonscription in January and in Bassiri Circonscription in April. These cases all occurred in children under the age of 12. It is unknown whether these cases reflect a resurgence of endemic activity or result from better reporting following reinforced surveillance stimulated by the outbreaks of 1969.

In Cameroon, one case of jungle yellow fever, confirmed by histopathologic examination, was reported in a child in Ayos, Nyonget-Mfoumou Department, in 1970. The previous notifications were two cases in 1941 and one case in 1945. A serologic survey in Cameroon in 1964-66 had shown that for the 0-9 year age group, 6 percent had antibodies to group B arbovirus. These children had probably not been vaccinated previously. Though group B viruses other than yellow fever may be responsible for these reactions, the presence of *Aedes africanus* and *A. simpsoni* in an area where *A. aegypti* are not numerous, combined with the equatorial climate in

Table 2  
Jungle Yellow Fever  
Reported Numbers of Cases and Deaths in South America, 1969-70

Country	1969		1970	
	Cases	Deaths	Cases	Deaths
Bolivia	8	—	2	—
Brazil	4	4	2	—
Colombia	7	7	7	7
Peru	28	24	75	57
Surinam	1	1	—	—
Total	48	36	86	64

this forest region, provide an effective ecological setting for jungle yellow fever. As in Togo, detection of this case may be the result of either better surveillance or a recrudescence of endemicity.

In South America, there were nearly twice as many cases reported in 1970 as in 1969 (Table 2). The level of endemicity was practically unchanged in Bolivia, Brazil, and Colombia, and the increase in the total number of cases was due to an outbreak of jungle yellow fever in Peru.

The epidemic in Peru began in December 1969 and ended in May 1970. It affected unvaccinated persons who had come from the highlands to work in the forest areas where infected *Haemagogus* are found. Most of the cases were in men aged 15-44 years. A total of 57 cases with 41 deaths occurred in Tarma Province, Department of Junin, and nine cases with seven deaths in the Oxapampa Province, Department of Pasco. The health services in the region carried out approximately 90,000 vaccinations in December 1969 and 184,000 in January-June 1970. Vaccination was made obligatory for all persons entering the eastern "jungle" region of the country.

*A. aegypti* has been discovered recently in the port of Puntarenas in Costa Rica where eradication was completed in 1961, and the house index was estimated at 4.1 percent. This reemphasized the present threat of *A. aegypti* to the eradication program. Since this program began in 1932, the only instance of yellow fever probably transmitted by *A. aegypti* in this area of the world was reported from Trinidad in 1954. The situation may become increasingly dangerous with more frequent resistance of *A. aegypti* to insecticides and the multiplication of very productive breeding sites, caused by increased urbanization.

\*Source: World Health Organization: *Weekly Epidemiological Record*, Vol. 46, No. 31.

EPIDEMIOLOGIC NOTES AND REPORTS  
GASTROENTERITIS — California

Between July 29 and Aug. 7, 1971, approximately 3,500 people living within a 1 1/4-square-mile area of Pico Rivera, California, became ill with gastroenteritis. This number represents 62 percent of the people at risk in the area involved. The

illness usually lasted 3-4 days and consisted of mild diarrhea and abdominal cramping. Some of the patients also experienced nausea, vomiting, and fever. No pathogens were isolated from any stool specimens.

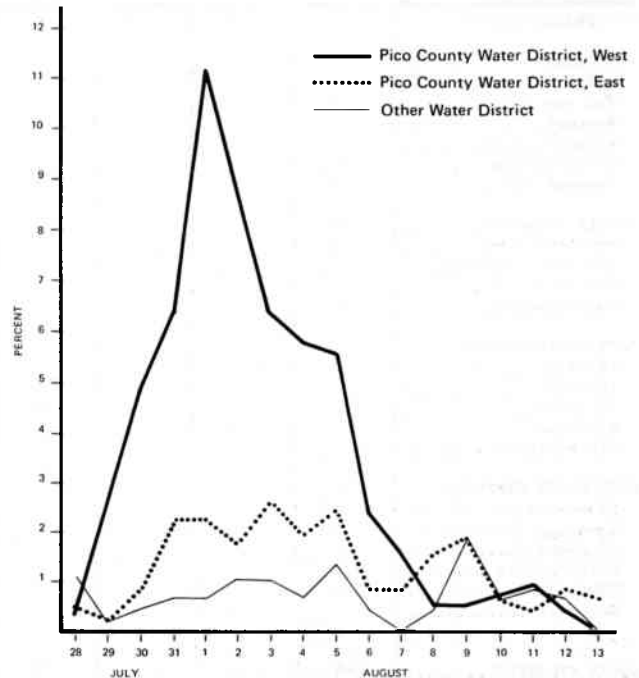
A door-to-door survey was conducted between August 11-13 in 42 randomly selected blocks located in all parts of Pico Rivera. There was no evidence to incriminate food, milk or milk products, restaurants, or common gatherings. The outbreak was confined to the Pico County Water District (PCWD) and did not affect any part of Pico Rivera served by other water companies. Figure 1 shows daily incidence rates in the west third of the water district, the east two-thirds, and in areas served by four other water companies. Within the PCWD, the outbreak was most severe in the west portion of the water district, close to a reservoir.

Further investigation revealed that a chlorinator at the reservoir had broken down on or about July 29, 1971, and was not repaired until approximately 1 week later. Water samples taken on August 4 and 5 from the reservoir, from a gravity water line feeding the reservoir, and from a trailer park within the area revealed heavy contamination by fecal coliforms, but no pathogens. The most likely source of the contamination was along the gravity line serving the reservoir. On August 5 the reservoir was removed from service.

A surveillance system instituted on August 13 has failed to reveal to any unusual incidents of other diseases including infectious hepatitis, typhoid fever, amebiasis, and bacterial diarrhea.

(Reported by A. C. Neiswander, M.D., Whittier District Health Officer, Betsy B. MacCracken, M.D., Epidemiologist, Louis E. Mahoney, M.D., Director, Immunization Project, Robert A. Murray, Epidemiology Analyst, Edwin Schulenburg, Chief Sanitarian, Walter F. Wilson, Director, Environmental Sanitation, G. A. Heidbreder, M.D., Health Officer, the Los Angeles County Health Department; William J. MacPherson, Senior Sanitary Engineer, two Public Health Advisors, James Chin, M.D., Chief, Bureau of Communicable Disease Control, State of California Department of Public Health; and an EIS Officer.)

Figure 1  
INCIDENCE RATES OF GASTROENTERITIS, BY ONSET  
AND BY WATER DISTRICT  
PICO RIVERA, CALIFORNIA - JULY 28-AUG. 13, 1971



INTERNATIONAL NOTES  
QUARANTINE MEASURES

Changes in the "Supplement - United States Designated Yellow Fever Vaccination Centers," MMWR, Vol. 20, No. 9

The following additions should be made in the list of United States Designated Yellow Fever Vaccination Centers:

CALIFORNIA

**Palo Alto** Palo Alto Medical Clinic  
300 Homer Ave., 94301  
415, 321-4121  
Clinic hours: Mon.-Fri., 8 a.m. - 6 p.m.,  
Sat., 9 a.m.-12 noon  
Fee charged

MASSACHUSETTS

**Boston** Medical Care Associates, Inc.  
1 Boylston Plaza  
Prudential Center, 02199  
617, 262-1500  
Clinic hours: Mon.-Fri., 8 a.m.-5 p.m.,  
Sat., 9 a.m.-12 noon  
Fee charged

NEW JERSEY

**Bayonne** Maritime Medical Clinic  
945 Ave. C, 07002  
201, 437-0400  
Clinic hours: By appointment  
Fee charged

The following changes should be made in the list of United States Designated Yellow Fever Vaccination Centers:

INDIANA

**Fort Wayne** Board of Public Health  
Change address to: Fifth Floor  
City-County Bldg., 46802  
Change telephone no. to:  
219, 423-7504

NEW YORK

**Buffalo** U.S. Public Health Service Clinic,  
14202  
Change hours to: By appointment,  
1st and 3rd Wed. each month

**Jamaica** American Airlines Medical Dept., 11430  
Change telephone no. to:  
212, 656-4908

NORTH CAROLINA

**Ashville** Buncombe County Health Center,  
28807  
Add to address: Health and Welfare  
Bldg.

(Continued on page 338)

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

SEPTEMBER 18, 1971 AND SEPTEMBER 19, 1970 (37th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1971	Cum. 1971
				1971	1970	1971	1971	1971	1970		
UNITED STATES.....	196	2	2	36	32	1	173	1,332	1,124	32	2,227
NEW ENGLAND.....	32	-	-	3	3	-	5	81	83	1	62
Maine.*.....	-	-	-	-	-	-	-	8	9	-	4
New Hampshire.*.....	2	-	-	-	-	-	-	4	3	-	1
Vermont.....	-	-	-	-	-	-	-	11	8	-	1
Massachusetts.....	9	-	-	1	-	-	1	32	39	-	41
Rhode Island.....	20	-	-	-	3	-	1	10	11	-	6
Connecticut.....	1	-	-	2	-	-	3	16	13	1	9
MIDDLE ATLANTIC.....	37	-	-	3	4	-	91	269	231	2	218
New York City.....	7	-	-	-	-	-	31	63	80	-	22
New York, Up-State...	17	-	-	2	-	-	15	54	33	1	64
New Jersey.*.....	13	-	-	-	-	-	34	60	55	-	87
Pennsylvania.....	-	-	-	1	4	-	11	92	63	1	45
EAST NORTH CENTRAL.....	17	-	-	12	13	-	25	153	180	4	147
Ohio.....	10	-	-	5	7	-	5	28	32	-	18
Indiana.....	1	-	-	-	-	-	2	11	12	-	11
Illinois.....	1	-	-	1	2	-	3	21	45	4	45
Michigan.....	5	-	-	5	2	-	15	84	84	-	48
Wisconsin.....	-	-	-	1	2	-	-	9	7	-	25
WEST NORTH CENTRAL.....	4	-	-	2	-	-	2	47	52	5	213
Minnesota.....	4	-	-	-	-	-	1	1	6	1	23
Iowa.....	-	-	-	2	-	-	-	7	21	-	25
Missouri.....	-	-	-	-	-	-	-	22	8	-	26
North Dakota.....	-	-	-	-	-	-	-	1	1	-	3
South Dakota.....	-	-	-	-	-	-	-	3	-	-	1
Nebraska.....	-	-	-	-	-	-	-	1	2	2	14
Kansas.....	-	-	-	-	-	-	1	12	14	2	121
SOUTH ATLANTIC.....	44	-	-	3	9	1	15	151	159	5	356
Delaware.....	2	-	-	-	-	-	-	3	5	-	1
Maryland.....	-	-	-	-	-	1	5	25	16	-	49
Dist. of Columbia....	-	-	-	-	-	-	-	-	4	-	4
Virginia.....	8	-	-	1	2	-	1	19	61	3	61
West Virginia.....	-	-	-	-	-	-	-	10	4	-	7
North Carolina.....	4	-	-	1	2	-	3	44	20	2	122
South Carolina.....	6	-	-	-	-	-	-	3	5	-	18
Georgia.....	-	-	-	-	-	-	-	8	17	-	57
Florida.....	24	-	-	1	5	-	6	39	27	-	37
EAST SOUTH CENTRAL.....	19	1	-	4	1	-	2	63	63	-	153
Kentucky.....	2	-	-	-	-	-	-	14	25	-	127
Tennessee.....	10	1	-	4	1	-	1	31	27	-	-
Alabama.....	3	-	-	-	-	-	1	14	8	-	20
Mississippi.....	4	-	-	-	-	-	-	4	3	-	6
WEST SOUTH CENTRAL.....	21	-	2	1	-	-	7	172	103	4	473
Arkansas.....	-	-	-	-	-	-	-	7	2	2	19
Louisiana.....	2	-	-	-	-	-	2	23	7	2	37
Oklahoma.*.....	6	-	-	1	-	-	1	21	9	-	67
Texas.....	13	-	2	-	-	-	4	121	85	-	350
MOUNTAIN.....	-	-	-	1	-	-	1	82	14	2	118
Montana.....	-	-	-	-	-	-	-	3	1	-	1
Idaho.....	-	-	-	-	-	-	-	25	2	-	5
Wyoming.....	-	-	-	-	-	-	-	1	1	-	3
Colorado.....	-	-	-	-	-	-	-	11	-	2	89
New Mexico.....	-	-	-	1	-	-	-	18	3	-	7
Arizona.....	-	-	-	-	-	-	1	13	5	-	8
Utah.....	-	-	-	-	-	-	-	11	-	-	3
Nevada.....	-	-	-	-	-	-	-	-	2	-	2
PACIFIC.....	22	1	-	7	2	-	25	314	239	9	487
Washington.....	-	-	-	1	1	-	1	32	45	-	1
Oregon.....	-	-	-	1	-	-	-	26	26	-	19
California.....	22	-	-	5	1	-	24	254	162	8	412
Alaska.....	-	-	-	-	-	-	-	2	3	1	6
Hawaii.....	-	1	-	-	-	-	-	-	3	-	49
Puerto Rico.*.....	---	---	---	---	---	---	---	---	24	---	18
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

\*Delayed reports: Aseptic meningitis: N.H. 2

Hepatitis, serum: Me. 3, N.J. delete 1

Hepatitis, infectious: N.H. 3, N.J. delete 1, Okla. 4, P.R. 39

Malaria: Okla. 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
SEPTEMBER 18, 1971 AND SEPTEMBER 19, 1970 (37th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1971	Cumulative		1971	Cumulative		1971	Cum. 1971	Total	Paralytic	
		1971	1970		1971	1970				1971	Cum. 1971
UNITED STATES.....	185	69,738	39,621	14	1,771	1,883	629	99,795	-	-	7
NEW ENGLAND.....	5	3,445	864	1	79	82	24	6,100	-	-	-
Maine.....*	2	1,464	204	-	8	3	2	1,199	-	-	-
New Hampshire.....	1	209	50	1	14	8	2	653	-	-	-
Vermont.....	-	116	8	-	-	7	-	373	-	-	-
Massachusetts.....	1	256	397	-	30	37	7	1,473	-	-	-
Rhode Island.....	-	238	120	-	3	5	2	1,186	-	-	-
Connecticut.....	1	1,162	85	-	24	22	11	1,216	-	-	-
MIDDLE ATLANTIC.....	22	7,519	4,857	3	246	343	35	6,257	-	-	-
New York City.....	4	3,754	882	1	54	81	27	1,759	-	-	-
New York, Up-State...	14	663	282	-	69	66	NN	NN	-	-	-
New Jersey.....	2	1,191	1,705	-	54	132	6	1,672	-	-	-
Pennsylvania.....	2	1,911	1,988	2	69	64	2	2,826	-	-	-
EAST NORTH CENTRAL.....	50	15,321	9,791	1	202	215	243	40,549	-	-	-
Ohio.....	3	3,986	3,807	1	65	85	6	7,715	-	-	-
Indiana.....	3	2,733	271	-	14	19	10	5,107	-	-	-
Illinois.....	3	2,961	3,055	-	58	49	44	4,272	-	-	-
Michigan.....	22	2,309	1,728	-	53	52	26	9,509	-	-	-
Wisconsin.....	19	3,332	930	-	12	10	157	13,946	-	-	-
WEST NORTH CENTRAL.....	6	6,803	3,865	1	129	96	49	6,574	-	-	-
Minnesota.....	-	53	38	-	21	13	3	1,102	-	-	-
Iowa.....	-	2,242	1,147	-	9	12	38	3,007	-	-	-
Missouri.....	2	2,602	1,275	-	46	56	4	1,034	-	-	-
North Dakota.....	-	236	319	-	6	5	-	330	-	-	-
South Dakota.....	2	217	93	-	5	-	1	239	-	-	-
Nebraska.....	2	66	925	1	15	5	-	93	-	-	-
Kansas.....	-	1,387	68	-	27	5	3	769	-	-	-
SOUTH ATLANTIC.....	20	8,369	7,162	3	315	379	37	7,207	-	-	1
Delaware.....	-	38	260	-	2	3	2	170	-	-	-
Maryland.....	1	540	1,376	1	46	37	8	661	-	-	-
Dist. of Columbia...	-	15	343	-	13	3	-	90	-	-	-
Virginia.....	4	1,584	1,983	-	37	40	3	966	-	-	-
West Virginia.....	5	505	312	-	7	10	14	1,866	-	-	-
North Carolina.....	4	1,931	865	-	54	77	NN	NN	-	-	-
South Carolina.....	-	904	595	-	20	44	3	855	-	-	-
Georgia.....	-	1,073	14	-	23	34	-	11	-	-	1
Florida.....	6	1,779	1,414	2	113	131	7	2,588	-	-	-
EAST SOUTH CENTRAL.....	22	8,211	1,328	-	152	136	35	7,755	-	-	-
Kentucky.....	3	3,902	763	-	40	45	20	2,355	-	-	-
Tennessee.....	2	1,019	378	-	61	58	10	4,381	-	-	-
Alabama.....	17	1,877	98	-	28	23	5	885	-	-	-
Mississippi.....	-	1,413	89	-	23	10	-	134	-	-	-
WEST SOUTH CENTRAL.....	29	12,431	7,584	3	150	255	62	8,107	-	-	3
Arkansas.....	-	778	30	-	5	22	1	90	-	-	-
Louisiana.....	-	1,672	100	2	53	62	-	134	-	-	-
Oklahoma.....	4	754	464	-	7	20	1	182	-	-	-
Texas.....	25	9,227	6,990	1	85	151	60	7,701	-	-	3
MOUNTAIN.....	5	3,222	1,527	-	54	40	42	4,023	-	-	1
Montana.....	-	925	62	-	6	1	2	395	-	-	-
Idaho.....	-	271	43	-	10	6	13	134	-	-	-
Wyoming.....	-	85	11	-	2	2	-	274	-	-	-
Colorado.....	-	826	183	-	7	14	12	1,314	-	-	-
New Mexico.....	1	361	203	-	4	1	2	637	-	-	-
Arizona.....	4	418	969	-	8	13	13	1,113	-	-	-
Utah.....	-	329	35	-	14	2	-	156	-	-	-
Nevada.....	-	7	21	-	3	1	-	-	-	-	1
PACIFIC.....	26	4,417	2,643	2	444	337	102	13,223	-	-	2
Washington.....	1	1,027	526	-	25	44	27	5,282	-	-	1
Oregon.....	2	372	230	1	34	25	16	1,338	-	-	1
California.....	21	2,580	1,565	1	377	266	55	5,658	-	-	-
Alaska.....	-	54	138	-	-	-	-	78	-	-	-
Hawaii.....	2	384	184	-	8	2	4	867	-	-	-
Puerto Rico.....*	---	505	898	---	8	5	---	977	---	---	-
Virgin Islands.....	-	17	6	-	-	1	1	99	-	-	-

\*Delayed reports: Measles: N.H. 1, P.R. 9  
Mumps: Me. 1, P.R. 14

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDED  
SEPTEMBER 18, 1971 AND SEPTEMBER 19, 1970 (37th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971	1971	Cum. 1971
UNITED STATES.....	218	38,563	3	75	5	126	12	247	11	349	59	2,973
NEW ENGLAND.....	2	1,711	-	4	1	1	-	14	-	2	1	188
Maine.....	-	261	-	-	-	-	-	2	-	-	-	170
New Hampshire.....	-	46	-	1	-	-	-	-	-	-	-	1
Vermont.....	-	94	-	-	-	-	-	-	-	-	-	11
Massachusetts.....	2	822	-	1	-	-	-	9	-	-	1	5
Rhode Island.....	-	97	-	-	-	-	-	-	-	2	-	1
Connecticut.....	-	391	-	2	1	1	-	3	-	-	-	-
MIDDLE ATLANTIC.....	17	2,526	-	6	-	-	1	48	-	31	1	133
New York City.....	9	548	-	5	-	-	1	13	-	1	-	-
New York, Up-State..	4	408	-	1	-	-	-	12	-	15	1	114
New Jersey.....	2	575	-	-	-	-	-	5	-	6	-	-
Pennsylvania.....	2	995	-	-	-	-	-	18	-	9	-	19
EAST NORTH CENTRAL....	60	8,348	-	10	-	5	1	28	-	17	7	317
Ohio.....	3	959	-	1	-	1	1	14	-	14	4	93
Indiana.....	20	2,037	-	1	-	-	-	4	-	-	1	67
Illinois.....	3	1,256	-	6	-	1	-	6	-	3	2	60
Michigan.....	12	2,615	-	2	-	1	-	4	-	-	-	40
Wisconsin.....	22	1,481	-	-	-	2	-	-	-	-	-	57
WEST NORTH CENTRAL....	17	3,191	1	6	-	17	-	3	-	5	18	799
Minnesota.....	-	274	1	3	-	-	-	-	-	-	10	175
Iowa.....	4	668	-	1	-	-	-	-	-	1	4	187
Missouri.....	11	1,360	-	2	-	13	-	3	-	2	1	113
North Dakota.....	-	93	-	-	-	-	-	-	-	-	-	145
South Dakota.....	1	97	-	-	-	1	-	-	-	-	1	85
Nebraska.....	1	88	-	-	-	-	-	-	-	-	-	5
Kansas.....	-	611	-	-	-	3	-	-	-	2	2	89
SOUTH ATLANTIC.....	21	3,066	1	18	2	20	2	37	9	187	7	327
Delaware.....	-	46	-	-	-	-	-	1	-	2	-	-
Maryland.....	1	151	-	1	-	3	1	4	1	31	-	1
Dist. of Columbia...	-	8	-	-	-	-	-	1	-	-	-	-
Virginia.....	-	207	-	2	-	8	-	8	3	28	-	63
West Virginia.....	17	623	-	-	-	-	-	3	-	3	2	108
North Carolina.....	-	45	-	1	-	4	-	3	5	98	-	5
South Carolina.....	-	432	1	1	-	-	-	1	-	14	-	-
Georgia.....	-	-	-	2	2	3	-	2	-	11	3	108
Florida.....	3	1,554	-	11	-	2	1	14	-	-	2	42
EAST SOUTH CENTRAL....	7	3,236	1	10	-	10	4	32	2	58	2	272
Kentucky.....	3	1,117	-	-	-	2	1	7	-	12	1	140
Tennessee.....	3	1,843	-	6	-	5	1	19	1	33	1	88
Alabama.....	1	203	1	3	-	2	2	6	1	7	-	41
Mississippi.....	-	73	-	1	-	1	-	-	-	6	-	3
WEST SOUTH CENTRAL....	38	4,672	-	11	1	50	2	26	-	39	8	599
Arkansas.....	2	337	-	1	1	20	1	8	-	5	2	75
Louisiana.....	-	280	-	1	-	7	-	6	-	1	2	23
Oklahoma.....	1	69	-	1	-	15	1	3	-	26	2	246
Texas.....	35	3,986	-	8	-	8	-	9	-	7	2	255
MOUNTAIN.....	12	1,906	-	2	-	19	1	9	-	10	4	59
Montana.....	1	113	-	-	-	1	-	-	-	3	-	-
Idaho.....	-	39	-	1	-	1	-	-	-	3	-	-
Wyoming.....	-	859	-	-	-	-	-	-	-	-	2	10
Colorado.....	-	267	-	-	-	-	1	2	-	2	-	11
New Mexico.....	6	219	-	-	-	-	-	5	-	-	-	8
Arizona.....	2	337	-	1	-	-	-	2	-	-	1	20
Utah.....	3	58	-	-	-	17	-	-	-	1	1	8
Nevada.....	-	14	-	-	-	-	-	-	-	1	-	2
PACIFIC.....	44	9,907	-	8	1	4	1	50	-	-	11	279
Washington.....	3	1,336	-	1	-	-	-	-	-	-	-	-
Oregon.....	5	729	-	1	1	3	-	-	-	-	1	8
California.....	30	7,643	-	6	-	1	1	45	-	-	10	237
Alaska.....	2	45	-	-	-	-	-	1	-	-	-	34
Hawaii.....	4	154	-	-	-	-	-	4	-	-	-	-
Puerto Rico, P.....	---	62	---	7	---	-	---	3	---	-	---	57
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-	-

\*Delayed reports: Typhoid fever: P.R. 1  
Rabies in animals: P.R. 3

# Morbidity and Mortality Weekly Report

Week No. 37 TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED SEPTEMBER 18, 1971

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

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
<b>NEW ENGLAND:</b>	636	399	31	23	<b>SOUTH ATLANTIC:</b>	1,275	659	41	66
Boston, Mass.-----	196	117	7	9	Atlanta, Ga.-----	111	48	2	9
Bridgeport, Conn.-----	39	21	4	1	Baltimore, Md.-----	263	146	2	12
Cambridge, Mass.-----	30	25	6	—	Charlotte, N. C.-----	52	28	—	3
Fall River, Mass.-----	21	16	2	—	Jacksonville, Fla.-----	83	42	2	4
Hartford, Conn.-----	38	16	—	3	Miami, Fla.-----	94	44	6	2
Lowell, Mass.-----	36	23	1	3	Norfolk, Va.-----	58	31	2	3
Lynn, Mass.-----	13	9	—	—	Richmond, Va.-----	90	45	8	1
New Bedford, Mass.-----	20	14	2	—	Savannah, Ga.-----	54	31	3	3
New Haven, Conn.-----	45	26	—	1	St. Petersburg, Fla.-----	83	66	2	2
Providence, R. I.-----	71	47	4	2	Tampa, Fla.-----	52	28	3	3
Somerville, Mass.-----	7	5	—	—	Washington, D. C.-----	266	112	10	24
Springfield, Mass.-----	44	27	3	2	Wilmington, Del.-----	69	38	1	—
Waterbury, Conn.-----	27	16	—	1	<b>EAST SOUTH CENTRAL:</b>	709	393	27	36
Worcester, Mass.-----	49	37	2	1	Birmingham, Ala.-----	113	52	—	7
<b>MIDDLE ATLANTIC:</b>	2,765	1,569	105	90	Chattanooga, Tenn.-----	59	30	4	4
Albany, N. Y.-----	38	17	1	2	Knoxville, Tenn.-----	54	43	4	—
Allentown, Pa.-----	22	13	3	3	Louisville, Ky.-----	138	84	7	7
Buffalo, N. Y.-----	150	80	1	8	Memphis, Tenn.-----	136	72	3	10
Camden, N. J.-----	33	18	1	4	Mobile, Ala.-----	61	29	—	3
Elizabeth, N. J.-----	30	13	1	1	Montgomery, Ala.-----	43	22	6	2
Erie, Pa.-----	36	23	3	1	Nashville, Tenn.-----	105	61	3	3
Jersey City, N. J.-----	60	34	1	1	<b>WEST SOUTH CENTRAL:</b>	1,263	660	34	91
Newark, N. J.-----	77	29	3	4	Austin, Tex.-----	44	21	7	4
New York City, N. Y.-----	1,323	771	42	39	Baton Rouge, La.-----	64	32	1	12
Paterson, N. J.-----	50	31	5	1	Corpus Christi, Tex.-----	29	14	—	4
Philadelphia, Pa.-----	423	217	5	11	Dallas, Tex.-----	186	102	4	5
Pittsburgh, Pa.-----	138	81	11	2	El Paso, Tex.-----	54	31	4	9
Reading, Pa.-----	42	30	2	1	Fort Worth, Tex.-----	71	42	2	5
Rochester, N. Y.-----	107	65	9	2	Houston, Tex.-----	212	98	3	17
Schenectady, N. Y.-----	21	12	1	1	Little Rock, Ark.-----	70	38	2	5
Scranton, Pa.-----	44	32	4	—	New Orleans, La.-----	145	75	—	5
Syracuse, N. Y.-----	79	49	1	6	Oklahoma City, Okla.-----	87	42	3	5
Trenton, N. J.-----	41	18	1	2	San Antonio, Tex.-----	164	86	2	15
Utica, N. Y.-----	18	13	6	—	Shreveport, La.-----	48	30	2	—
Yonkers, N. Y.-----	33	23	4	1	Tulsa, Okla.-----	89	49	4	5
<b>EAST NORTH CENTRAL:</b>	2,638	1,412	54	148	<b>MOUNTAIN:</b>	486	255	20	35
Akron, Ohio-----	74	40	2	5	Albuquerque, N. Mex.-----	59	19	8	1
Canton, Ohio-----	47	27	—	4	Colorado Springs, Colo.-----	20	11	2	1
Chicago, Ill.-----	654	343	10	29	Denver, Colo.-----	121	65	2	12
Cincinnati, Ohio-----	190	112	7	13	Ogden, Utah-----	14	11	—	—
Cleveland, Ohio-----	223	102	2	13	Phoenix, Ariz.-----	97	49	3	9
Columbus, Ohio-----	138	68	—	10	Pueblo, Colo.-----	24	19	3	—
Dayton, Ohio-----	106	69	2	5	Salt Lake City, Utah-----	70	39	—	6
Detroit, Mich.-----	375	176	7	33	Tucson, Ariz.-----	81	42	2	6
Evansville, Ind.-----	58	35	3	1	<b>PACIFIC:</b>	1,739	1,049	42	73
Flint, Mich.-----	33	17	—	4	Berkeley, Calif.-----	12	8	1	—
Fort Wayne, Ind.-----	28	15	—	2	Fresno, Calif.-----	60	35	—	4
Gary, Ind.-----	48	26	1	2	Glendale, Calif.-----	34	21	—	2
Grand Rapids, Mich.-----	51	38	4	—	Honolulu, Hawaii-----	49	27	—	4
Indianapolis, Ind.-----	161	85	3	7	Long Beach, Calif.-----	110	69	2	3
Madison, Wis.-----	37	22	5	1	Los Angeles, Calif.-----	569	352	14	20
Milwaukee, Wis.-----	136	78	1	8	Oakland, Calif.-----	88	59	2	6
Peoria, Ill.-----	28	18	2	1	Pasadena, Calif.-----	32	28	1	1
Rockford, Ill.-----	26	17	2	—	Portland, Oreg.-----	148	87	3	9
South Bend, Ind.-----	43	21	3	3	Sacramento, Calif.-----	50	26	2	3
Toledo, Ohio-----	102	63	—	4	San Diego, Calif.-----	125	76	—	3
Youngstown, Ohio-----	80	40	—	3	San Francisco, Calif.-----	191	105	11	1
<b>WEST NORTH CENTRAL:</b>	826	497	17	36	San Jose, Calif.-----	41	25	1	1
Des Moines, Iowa-----	63	37	5	2	Seattle, Wash.-----	130	71	2	10
Duluth, Minn.-----	41	22	1	1	Spokane, Wash.-----	53	31	1	5
Kansas City, Kans.-----	32	18	—	2	Tacoma, Wash.-----	47	29	2	1
Kansas City, Mo.-----	124	81	—	6	<b>Total</b>	<b>12,337</b>	<b>6,893</b>	<b>371</b>	<b>598</b>
Lincoln, Nebr.-----	27	20	—	—	<b>Expected Number</b>	<b>11,929</b>	<b>6,702</b>	<b>396</b>	<b>603</b>
Minneapolis, Minn.-----	106	68	4	6	<b>Cumulative Total</b> (includes reported corrections for previous weeks)	<b>474,035</b>	<b>272,144</b>	<b>17,526</b>	<b>21,264</b>
Omaha, Nebr.-----	95	52	—	4					
St. Louis, Mo.-----	214	128	3	8					
St. Paul, Minn.-----	59	42	2	3					
Wichita, Kans.-----	65	29	2	4					
Las Vegas, Nev.*	13	6	—	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.

## QUARANTINE MEASURES — (Continued from page 333)

## NORTH CAROLINA

Winston-Salem

Forsyth County Health Dept., 27102  
Change telephone no. to:  
919, 727-2434

## MICHIGAN

Ann Arbor

University Hospital, 48104  
Add to address: Pediatric Clinic  
Delete street address

## TEXAS

Amarillo

Bi-City-County Health Unit, 79105  
Change hours to: 1:30-2:30 p.m.

## WISCONSIN

West Allis

Allis-Chalmers Manufacturing Co.,  
53214

Change name to: Allis-Chalmers  
Corporation

The following Center has been closed:

## NEW YORK

New York

Washington Heights Health Center  
600 West 168th St., 10032

## CHOLERA — Europe\*

France — One imported case in Toulouse (Haute-Garonne) and a second case in Hendaye (Basses-Pyrénées) suspected to be imported have been notified. *Vibrio cholerae*, biotype *eltor*, serotype Ogawa, has been bacteriologically confirmed in both instances.

In Hendaye, a woman at a convalescent home became ill on Sept. 8, 1971. She was hospitalized in isolation on September 9, and cholera was confirmed on September 13.

In Toulouse, a man returned from a vacation in Barcelona, Spain, on September 11 and became ill; he was hospitalized the next day.

Epidemiological investigation of both cases has not revealed other cases or carriers.

Sweden — A 56-year-old woman returned by air to Sorsele, Västerbotten County on September 8 from Palma Nova (Majorca, Spain) where she had been on vacation. She became ill on September 9 and was hospitalized in isolation. Bacteriological confirmation of *V. cholerae*, biotype *eltor*, serotype Ogawa, has been obtained. An epidemiological investigation of the case including the people with whom she traveled is being undertaken.

On September 22, Portugal (Almata) was declared cholera-infected.

\*Source: WHO: *Weekly Epidemiological Record*, Vol. 46, No. 38 and WHO Daily Radio Telegraphic Epidemiological Broadcast, Sept. 22, 1971.

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Director, Center for Disease Control  
Director, Epidemiology Program, CDC  
Editor, MMWR

David J. Sencer, M.D.  
Philip S. Brachman, M.D.  
Michael B. Gregg, M.D.

The data in this report are provisional, based on weekly telegraphs to CDC by 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.

In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

Address all correspondence to: Center for Disease Control  
Attn: Editor  
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PUBLIC HEALTH SERVICE  
HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION  
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