



Morbidity and Mortality

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

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SURVEILLANCE SUMMARY

MALARIA - United States and Puerto Rico - 1970

In the United States and Puerto Rico, 3,997 cases (provisional) of malaria with onset in 1970 were reported to CDC, compared with 3,806 cases in 1969 (MMWR, Vol. 19, No. 36). This increase was due to a greater number of military cases imported from Vietnam. Military personnel, including recently discharged veterans, accounted for 3,872 cases; civilians accounted for the remaining 125. The number of military cases imported from Vietnam was 5.9 percent higher than the total reported in 1969; the number of civilian cases was similar to totals for the past 8 years (Figure 1). The total number of Army cases (3,182) in 1970 represented a 13.8 percent increase over that in 1969. This increase could not be attributed to improved reporting or to increased numbers of returnees, for the number of Army returnees was lower in 1970 than in 1969.

Cases were reported from all 50 states and Puerto Rico. California, Colorado, Georgia, Kansas, North Carolina, and

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Texas, however, accounted for 47 percent of the total, reflecting the location within these states of military bases receiving large numbers of Vietnam returnees.

The *Plasmodium* species was identified in 3,913 of the 3,997 cases (97.9 percent). *P. vivax* accounted for 81.6 percent of the infections (3,260 cases), and *P. falciparum* was diagnosed in 12.5 percent (501 cases). These percentages are almost the same as those reported in 1969. *P. malaria* accounted for 0.9 percent (37 cases) in 1970, while 0.1 percent

(Continued on page 216)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

Cumulative totals include revised and delayed reports through previous weeks)

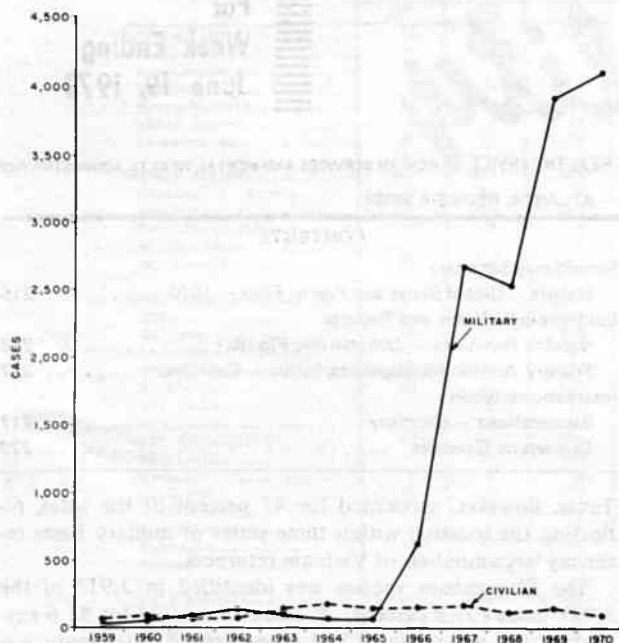
DISEASE	24th WEEK ENDED		MEDIAN 1966 - 1970	CUMULATIVE, FIRST 24 WEEKS		
	June 19, 1971	June 20, 1970		1971	1970	MEDIAN 1966 - 1970
Aseptic meningitis	58	68	45	1,140	757	754
Brucellosis	3	4	4	72	93	93
Diphtheria	-	-	1	80	181	72
Encephalitis, primary:						
Arthropod-borne & unspecified	31	27	27	533	486	484
Encephalitis, post-infectious	9	7	8	162	219	256
Hepatitis, serum	168	175	90	3,949	3,265	1,854
Hepatitis, infectious	1,082	1,061	789	28,543	25,962	20,163
Malaria	48	64	41	1,678	1,564	971
Measles (rubeola)	2,031	1,241	1,241	61,133	34,437	34,440
Meningococcal infections, total	25	41	45	1,445	1,470	1,551
Civilian	24	39	40	1,267	1,322	1,400
Military	1	2	2	178	148	151
Mumps	2,573	2,165	-	87,531	64,868	-
Poliomyelitis, total	-	-	1	6	6	10
Paralytic	-	-	1	4	6	9
Rubella (German measles)	1,089	1,134	1,644	33,446	44,939	37,756
Tetanus	4	3	3	45	49	58
Tularemia	3	1	4	44	42	68
Typhoid fever	8	8	6	120	108	127
Typhus, tick-borne (Rky. Mt. spotted fever)	28	14	14	91	89	67
Rabies in animals	75	50	64	2,107	1,516	1,772

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	-	Psittacosis: Neb.-2	17
Botulism:	1	Rabies in Man:	1
Leprosy: Calif.-I, Hawaii-1	62	Rubella congenital syndrome: Tex.-1	33
Leptospirosis: N.C.-1	17	Trichinosis:	33
Plague:	-	Typhus, murine:	3

MALARIA — (Continued from front page)

Figure 1
MILITARY AND CIVILIAN CASES OF MALARIA
UNITED STATES — 1959-1970



(4 cases) were due to *P. ovale*. Mixed infections, generally due to *P. vivax* and *P. falciparum*, accounted for 2.8 percent (111 cases) in 1970. The species was undetermined for 2.1 percent (84 cases) of the infections.

Of the 3,997 cases reported in 1970, 3,981 were imported.* Sixteen were acquired in the United States, which represents the highest annual total since 1953. Two of the 16 were classified as introduced** and 14 as induced***

Infections acquired in Vietnam accounted for 3,844 of the 3,981 imported cases (96.6 percent). Only four of these were in non-military personnel. *P. vivax* was the etiologic agent in 3,159 of the 3,844 cases (82.3 percent), *P. falciparum* in 467 cases (12.1 percent), *P. malariae* in 29 cases (0.8 percent), and mixed *Plasmodium* species in 108 cases (2.8 percent). In 77 cases (2.0 percent), the *Plasmodium* species was not identified. Army personnel accounted for 82.9 percent of the military cases from Vietnam, the Marines for 10.9 percent, and the Navy and Air Force for less than 1 percent.

Onsets of illness occurred more than 30 days after arrival in the United States in 77 percent of the 3,441 imported cases for which date of onset and date of arrival in this country were known. As in previous years, a marked difference in

time of onset was observed between falciparum and vivax malaria. A total of 59.5 percent of the patients with falciparum malaria became ill within 1 month after arrival, compared to 17.8 percent of the patients with vivax malaria.

The two introduced cases, both due to *P. vivax*, occurred in rural south-central Texas in September 1970, and the probable index case was a Mexican agricultural worker.

Of the 14 induced cases, eight were due to infected blood transfusions. Four of these were due to *P. vivax*, three to *P. falciparum*, and one to *P. ovale*. The infected donors were found in five of these eight instances. Three of the donors were Vietnam veterans; the other two had acquired their infections in Africa. The remaining six induced cases were due to sharing contaminated injection equipment associated with illicit heroin use. Five cases in one outbreak were due to *P. vivax*, and one to *P. falciparum*. The probable sources of infection in both of these outbreaks were Vietnam veterans.

United States citizens accounted for 80 of the 125 civilian cases, foreign visitors for the remaining 45 cases. College students and teachers accounted for more civilian cases (27) than any other occupational group; seamen, with 12 cases, followed. Only six cases were reported in Peace Corps volunteers.

In 1970, 275 malaria relapses were reported. A total of 248 relapses were second attacks, 23 were third attacks, 3 were fourth attacks, and 1 was a fifth attack. Thus, a total of 4,272 malaria attacks (3,997 primary attacks plus 275 relapses) were reported in 1970. Of the 3,159 military returnees who had onset of malaria in the United States in 1970, 164 later suffered a vivax relapse for a relapse rate of 5.2 percent; the corresponding rate for 1969 was 6.9 percent. The 1970 relapse rate should be considered a preliminary estimate, since relapses of 1970 cases may occur in the future. The recrudescence rate for falciparum infections in Vietnam returnees was 3.2 percent in 1970.

There were three fatal cases of malaria reported in the United States in 1970. All were due to *P. falciparum*, for an overall malaria case-fatality ratio of 0.08 percent and a falciparum case-fatality ratio of 0.6 percent. All three deaths were in civilians who had returned from Africa.

(Reported by the Parasitic Diseases Branch, Epidemiology Program, CDC.)

*Imported — malaria acquired outside a specific area, e.g., malaria imported by a soldier from Vietnam to the United States

**Introduced — malaria acquired by mosquito transmission from an imported case in an area where malaria is not a regular occurrence

***Induced — malaria acquired through artificial means, i.e., blood transfusion, common syringes, or malariotherapy

EPIDEMIOLOGIC NOTES AND REPORTS VACCINE REACTIONS — Jacksonville, Florida

On April 24, 1971, 74 military reservists in Jacksonville, Florida, received one or more routine vaccinations. Seventy-one persons received smallpox vaccinations, 62 received typhoid, and 17 received diphtheria-tetanus. Approximately 45

minutes after everyone had been vaccinated, one man became violently ill with nausea, vomiting, sweating, and fever. Another man subsequently lost consciousness. Within 2 hours after completion of the vaccinations, 34 men had become ill

with varying degrees of nausea, vomiting, profuse sweating, dizziness, and fever. This represented an attack rate of 45.9 percent for all men who attended the vaccination clinic. Twelve persons required emergency room care, and eight were unable to report for duty the following day. No one was hospitalized, and there were no deaths.

All immunizations were carried out by trained personnel under the supervision of a physician. All reservists were screened by the physician for possible contraindications to any of the vaccines. The methods and routes of vaccination were consistent with the recommendations of the manufacturer.

The typhoid vaccine appeared to be the most likely causative agent, since 34 out of 62 persons (54.9 percent) who received this vaccine became ill, whereas none of the 12 persons who did not receive it became ill (Table 1). The vaccine, a commercially manufactured product, was supplied to the Medical Evacuation Hospital by the Jacksonville Naval Air Station. It is an acetone inactivated, dried preparation. Each unit consists of one 50 cc bottle of diluent and one 50 cc bottle containing the dried, unreconstituted vaccine. Although detailed instructions for reconstitution of the vaccine appear in the insert, the following inscription appears on the vial itself:

Immediately prior to use, reconstitute with 20 cc of accompanying typhoid diluent. Shake well. Quantitatively return the reconstituted vaccine to the diluent vial and shake well.

The reconstituted vaccine prepared at the clinic on April 24 was not returned to the diluent vial; therefore, the vaccine was approximately 2½ times as potent as it should have been.

(Reported by E. Charlton Prather, M.D., Chief, Bureau of Preventable Diseases, Florida Division of Health; and an EIS Officer.)

Table 1

Vaccine-Specific Attack Rates
Jacksonville, Florida – April 24, 1971

Vaccine	Received				Did Not Receive			
	Ill	Not Ill	Total	Attack Rate (Percent)	Ill	Not Ill	Total	Attack Rate (Percent)
Smallpox	32	39	71	45	2	1	3	67
Typhoid	34	28	62	55	0	12	12	0
Tetanus	3	14	17	18	32	25	57	56

PRIMARY AMEBIC MENINGOENCEPHALITIS – California

On April 29, 1971, a 16-year-old girl was admitted to a hospital in Los Angeles, California, with a temperature of 104°F., nuchal rigidity, and a 1-day history of frontal headache, chills, photophobia, and vomiting. A lumbar puncture on admission demonstrated pressure of 320 mm H₂O, 310 WBC/mm³ (68 percent polymorphonuclears [PMN]), protein 72 mg percent, sugar 70 mg percent (serum 156 mg percent). Blood stains and cultures were negative for bacteria, fungi, and acid-fast organisms. Eight hours after admission the patient became unconscious and experienced decerebrate posturing. A lumbar puncture at that time demonstrated pressure of 550 mm H₂O, 3,330 WBC/mm³ (78 percent PMN), protein 290 mg percent, and sugar 82 mg percent (serum 259 mg percent). Therapy with antibiotics, steroids, and mannitol brought no clinical improvement. The patient died 3 days after admission from cardiac arrest.

Postmortem examination showed a basilar meningitis with extensive hemorrhagic and necrotic involvement of the superficial cerebellum. Histologic examination revealed clumps of organisms morphologically resembling *Naegleria* in the meninges and in the grey matter of the cerebellum. Attempts are being made to culture amebae from refrigerated brain tissue.

Five days before the patient became ill, she had swum in a hot spring (temperature 100°F.) in a remote desert valley near San Bernadino, California. The organism implicated in this case, *Naegleria*, sp., is a free-living ameba and is ubiquitous in nature. Attempts to culture amebae from water samples taken from the hot spring are underway. This potential hazard prompted the United States Forest Service and the County Health Department to post the hot spring area, warning swimmers of the potential danger.

Previously reported cases in this country had been documented only in Florida, Texas, Virginia, and Georgia. All patients had been swimming in fresh or brackish water in warm, dry weather.

(Reported by Robert H. Hecht, M.D., Arthur Cohen, M.D., John Stoner, M.D., Charles Irwin, M.D., attending physicians, Harbor General Hospital, Torrance, California; Siegfried A. Centerwall, M.D., Acting Health Officer, San Bernadino County, California; I. D. Litwack, M.D., City Health Officer, Long Beach, California; Ichiro Kamei, M.D., Chief, Acute Communicable Disease Control Division, Los Angeles County Health Department, California; James Chin, M.D., Chief, Bureau of Communicable Disease Control, California Department of Public Health; and an EIS Officer.)

INTERNATIONAL NOTES SALMONELLOSIS – Germany

On Nov. 27, 1970, an outbreak of salmonellosis involving 596 persons occurred in a factory (employment 1,131) in Urberach, Hesse, Germany. A total of 530 persons (89 percent) became ill. The clinical course of illness was described as "unusually mild"; however, eight of the 530 ill persons were hospitalized. The food specific attack rate was highest

for those who ate potato salad with remoulade sauce (90.7 percent).

Epidemiologic investigation showed that the meal had been prepared on November 26 and 27. Samples of the potato salad and the remoulade sauce were cultured at the

(Continued on page 222)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 19, 1971 and JUNE 20, 1970 (24th Week)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious			
				1971	1971	1971	1971	1970	1971	1971	1971
UNITED STATES.....	58	3	1	27	31	9	168	1,082	1,061	48	1,678
NEW ENGLAND.....	-	-	-	1	2	-	8	48	97	-	50
Maine.....	-	-	-	-	-	-	1	5	9	-	3
New Hampshire.....	-	-	-	-	-	-	-	2	9	-	1
Vermont.....	-	-	-	-	-	-	-	6	7	-	1
Massachusetts.....	-	-	-	-	2	-	1	9	54	-	36
Rhode Island.....	-	-	-	1	-	-	2	13	5	-	3
Connecticut.....	-	-	-	-	-	-	4	13	13	-	6
MIDDLE ATLANTIC.....	6	-	-	1	7	1	87	245	196	6	163
New York City.....	1	-	-	-	4	-	42	89	55	1	14
New York, Up-State...	1	-	-	-	1	1	2	26	49	5	46
New Jersey.....	4	-	-	1	1	-	31	64	56	-	72
Pennsylvania.....	-	-	-	-	1	-	12	66	36	-	31
EAST NORTH CENTRAL.....	2	-	-	14	4	-	8	148	118	10	98
Ohio.....	1	-	-	5	2	-	3	41	37	3	16
Indiana.....	-	-	-	3	-	-	1	4	10	1	7
Illinois.....	1	-	-	1	-	-	-	24	16	3	35
Michigan.....	-	-	-	4	2	-	3	70	45	3	33
Wisconsin.....	-	-	-	1	-	-	1	9	10	-	7
WEST NORTH CENTRAL.....	2	-	-	-	-	5	2	54	40	4	143
Minnesota.....	-	-	-	-	-	4	1	11	3	-	17
Iowa.....	-	-	-	-	-	-	-	2	7	1	20
Missouri.....	-	-	-	-	-	-	-	23	18	-	23
North Dakota.....	1	-	-	-	-	-	-	-	1	-	-
South Dakota.....	1	-	-	-	-	-	-	2	-	-	-
Nebraska.....	-	-	-	-	-	-	-	6	2	-	7
Kansas.....	-	-	-	-	-	1	1	10	9	3	76
SOUTH ATLANTIC.....	23	1	-	8	7	1	21	157	178	7	262
Delaware.....	-	-	-	-	-	-	1	4	2	-	1
Maryland.....	-	-	-	-	-	-	4	15	4	1	40
Dist. of Columbia....	-	-	-	-	-	-	-	2	1	-	2
Virginia.....	1	1	-	3	2	-	1	33	58	1	32
West Virginia.....	-	-	-	-	1	-	1	4	3	-	7
North Carolina.....	2	-	-	3	-	-	3	43	19	5	97
South Carolina.....	-	-	-	-	-	-	1	5	7	-	10
Georgia.....	-	-	-	-	-	-	-	3	16	-	47
Florida.....	20	-	-	2	4	1	10	48	68	-	26
EAST SOUTH CENTRAL.....	7	1	-	-	3	-	2	43	76	1	117
Kentucky.....	1	-	-	-	-	-	-	18	29	-	97
Tennessee.....	5	1	-	-	3	-	1	14	24	-	-
Alabama.....	1	-	-	-	-	-	-	9	7	-	15
Mississippi.....	-	-	-	-	-	-	1	2	16	1	5
WEST SOUTH CENTRAL.....	6	1	1	-	3	-	14	136	76	7	391
Arkansas.....	1	-	-	-	-	-	-	3	5	2	13
Louisiana.....	1	-	-	-	3	-	1	14	11	-	33
Oklahoma.....	-	-	-	-	-	-	2	19	3	4	60
Texas.....	4	1	1	-	-	-	11	100	57	1	285
MOUNTAIN.....	1	-	-	-	-	-	1	43	50	-	95
Montana.....	-	-	-	-	-	-	-	2	1	-	1
Idaho.....	-	-	-	-	-	-	-	5	1	-	4
Wyoming.....	-	-	-	-	-	-	-	-	3	-	1
Colorado.....	-	-	-	-	-	-	1	17	15	-	70
New Mexico.....	1	-	-	-	-	-	-	6	11	-	6
Arizona.....	-	-	-	-	-	-	-	8	8	-	8
Utah.....	-	-	-	-	-	-	-	5	6	-	3
Nevada.....	-	-	-	-	-	-	-	-	5	-	2
PACIFIC.....	11	-	-	3	5	2	25	208	230	13	359
Washington.....	-	-	-	-	-	-	-	31	18	-	1
Oregon.....	-	-	-	-	-	-	1	27	11	-	15
California.....	10	-	-	3	5	2	24	142	197	10	309
Alaska.....	-	-	-	-	-	-	-	-	3	-	3
Hawaii.....	1	-	-	-	-	-	-	8	1	3	31
Puerto Rico.....	-	-	-	-	-	-	-	16	22	-	16
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Hepatitis, infectious: N.H. 1, N.J. delete 1, Okla. 2, Wash. 6, P.R. 6

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 19, 1971 and JUNE 20, 1970 (24th Week) — Continued

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1971	Cumulative		1971	Cumulative		1971	Cum. 1971	Total 1971	Paralytic	
		1971	1970		1971	1970				1971	Cum. 1971
UNITED STATES.....	2,031	61,133	34,437	25	1,445	1,470	2,573	87,531	-	-	4
NEW ENGLAND.....	141	3,067	676	2	65	68	206	5,394	-	-	-
Maine..*	75	1,361	140	-	7	3	40	1,085	-	-	-
New Hampshire.....	4	175	47	-	10	5	11	622	-	-	-
Vermont.....	2	100	4	-	-	6	38	272	-	-	-
Massachusetts.....	3	268	334	-	26	29	55	1,287	-	-	-
Rhode Island.....	7	210	80	-	2	5	24	1,071	-	-	-
Connecticut.....	50	953	71	2	20	20	38	1,057	-	-	-
MIDDLE ATLANTIC.....	168	6,649	4,104	3	187	256	146	5,519	-	-	-
New York City.....	58	3,351	726	-	39	62	63	1,252	-	-	-
New York, Up-State...	37	487	199	2	47	51	NN	NN	-	-	-
New Jersey.....	46	1,058	1,564	1	46	97	36	1,556	-	-	-
Pennsylvania.....	27	1,753	1,615	-	55	46	47	2,711	-	-	-
EAST NORTH CENTRAL.....	545	13,194	8,316	3	158	170	983	35,828	-	-	-
Ohio.....	88	3,520	3,419	1	44	72	114	6,944	-	-	-
Indiana..*	101	2,422	237	-	14	17	52	4,830	-	-	-
Illinois.....	43	2,614	2,792	1	46	36	79	3,842	-	-	-
Michigan.....	154	1,805	1,153	1	44	38	377	8,513	-	-	-
Wisconsin.....	159	2,833	715	-	10	7	361	11,699	-	-	-
WEST NORTH CENTRAL.....	111	5,924	3,562	1	118	75	59	5,552	-	-	-
Minnesota..*	2	53	36	-	19	11	10	1,014	-	-	-
Iowa.....	38	2,188	1,006	-	7	11	19	2,786	-	-	-
Missouri.....	68	2,163	1,140	-	43	45	21	838	-	-	-
North Dakota.....	1	205	309	-	5	3	3	288	-	-	-
South Dakota.....	2	198	83	-	5	-	5	205	-	-	-
Nebraska.....	-	58	921	-	14	3	1	74	-	-	-
Kansas.....	-	1,059	67	1	25	2	-	347	-	-	-
SOUTH ATLANTIC.....	278	6,348	6,412	5	236	314	250	6,191	-	-	1
Delaware.....	-	33	251	-	2	3	5	131	-	-	-
Maryland.....	68	432	1,271	2	35	32	20	522	-	-	-
Dist. of Columbia....	-	12	338	-	8	1	2	76	-	-	-
Virginia.....	43	1,084	1,773	1	19	30	28	780	-	-	-
West Virginia.....	4	429	258	-	5	6	31	1,629	-	-	-
North Carolina.....	61	1,832	712	-	38	64	NN	NN	-	-	-
South Carolina.....	10	846	482	1	19	39	38	760	-	-	-
Georgia.....	-	183	11	-	21	29	-	3	-	-	1
Florida.....	92	1,497	1,316	1	89	110	126	2,290	-	-	-
EAST SOUTH CENTRAL.....	231	7,751	927	-	130	114	177	6,858	-	-	-
Kentucky.....	139	3,727	455	-	37	40	31	2,217	-	-	-
Tennessee.....	50	930	322	-	48	48	136	3,741	-	-	-
Alabama.....	41	1,718	70	-	26	20	10	802	-	-	-
Mississippi.....	1	1,376	80	-	19	6	-	98	-	-	-
WEST SOUTH CENTRAL.....	252	11,772	7,022	7	126	199	228	6,956	-	-	1
Arkansas.....	16	760	29	-	5	16	-	49	-	-	-
Louisiana.....	25	1,604	82	2	44	52	3	130	-	-	-
Oklahoma.....	5	736	397	-	6	12	-	173	-	-	-
Texas.....	206	8,672	6,514	5	71	119	225	6,604	-	-	1
MOUNTAIN.....	39	2,869	1,314	-	44	28	55	3,557	-	-	-
Montana.....	4	901	22	-	3	1	1	349	-	-	-
Idaho.....	1	233	30	-	6	5	2	111	-	-	-
Wyoming.....	-	83	10	-	2	1	-	274	-	-	-
Colorado.....	7	774	126	-	7	7	27	1,164	-	-	-
New Mexico.....	8	278	154	-	3	-	8	567	-	-	-
Arizona.....	5	336	919	-	8	12	13	952	-	-	-
Utah.....	14	261	32	-	12	2	4	140	-	-	-
Nevada.....	-	3	21	-	3	-	-	-	-	-	-
PACIFIC.....	266	3,559	2,104	4	381	246	469	11,676	-	-	2
Washington.....	56	847	416	-	18	34	122	5,084	-	-	1
Oregon.....	29	329	182	-	27	18	38	1,082	-	-	1
California.....	164	2,116	1,271	4	331	193	273	4,781	-	-	-
Alaska..*	-	51	111	-	-	-	-	71	-	-	-
Hawaii.....	17	216	124	-	5	1	36	658	-	-	-
Puerto Rico.....	4	311	814	-	2	3	17	730	-	-	-
Virgin Islands.....	1	8	6	-	-	1	2	24	-	-	-

*Delayed reports: Measles: Me. 13, Minn. delete 9

Meningococcal infections: Ind. delete 1

Mumps: Me. 1, Alaska 3

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JUNE 19, 1971 and JUNE 20, 1970 (24th 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.....	1,089	33,446	4	45	3	44	8	120	28	91	75	2,107
NEW ENGLAND.....	83	1,477	—	3	—	—	—	6	—	—	1	159
Maine.....	2	243	—	—	—	—	—	—	—	—	1	151
New Hampshire.....	1	39	—	—	—	—	—	—	—	—	—	1
Vermont.....	21	85	—	—	—	—	—	—	—	—	—	7
Massachusetts.....	20	698	—	1	—	—	—	6	—	—	—	—
Rhode Island.....	3	80	—	—	—	—	—	—	—	—	—	—
Connecticut.....	36	332	—	2	—	—	—	—	—	—	—	—
MIDDLE ATLANTIC.....	67	2,259	—	5	—	—	2	20	2	5	6	89
New York City.....	5	411	—	5	—	—	—	7	1	1	—	—
New York, Up-State..	9	364	—	—	—	—	2	10	1	3	5	83
New Jersey.....	33	536	—	—	—	—	—	2	—	—	—	—
Pennsylvania.....	20	948	—	—	—	—	—	1	—	1	1	6
EAST NORTH CENTRAL....	231	7,266	—	5	—	2	1	11	6	10	14	197
Ohio.....	20	793	—	1	—	1	—	6	6	9	6	54
Indiana.....	65	1,763	—	1	—	—	—	1	—	—	3	47
Illinois.....	8	1,149	—	3	—	—	1	2	—	1	3	37
Michigan.....	101	2,399	—	—	—	—	—	2	—	—	2	31
Wisconsin.....	37	1,162	—	—	—	1	—	—	—	—	—	28
WEST NORTH CENTRAL....	43	2,498	—	3	—	6	—	1	1	1	17	503
Minnesota.....	14	269	—	1	—	—	—	—	—	—	4	100
Iowa.....	25	622	—	—	—	—	—	—	—	—	4	132
Missouri.....	2	1,108	—	2	—	6	—	1	—	—	1	86
North Dakota.....	2	88	—	—	—	—	—	—	—	—	5	93
South Dakota.....	—	93	—	—	—	—	—	—	—	—	1	33
Nebraska.....	—	75	—	—	—	—	—	—	—	—	—	—
Kansas.....	—	243	—	—	—	—	—	—	1	1	2	59
SOUTH ATLANTIC.....	108	2,659	—	10	—	13	3	23	14	47	7	225
Delaware.....	—	43	—	—	—	—	—	1	1	1	—	—
Maryland.....	4	108	—	1	—	3	—	3	4	11	—	—
Dist. of Columbia...	—	6	—	—	—	—	—	—	—	—	—	—
Virginia.....	13	165	—	1	—	5	1	2	—	2	1	57
West Virginia.....	18	462	—	—	—	—	—	3	—	—	3	87
North Carolina.....	4	38	—	—	—	4	—	3	5	24	—	—
South Carolina.....	4	420	—	—	—	—	—	—	3	7	—	—
Georgia.....	—	—	—	2	—	—	—	2	1	2	3	53
Florida.....	65	1,417	—	6	—	1	2	9	—	—	—	28
EAST SOUTH CENTRAL....	79	2,912	1	8	—	7	—	10	1	12	4	220
Kentucky.....	22	1,057	—	—	—	2	—	3	—	4	3	121
Tennessee.....	53	1,610	1	5	—	2	—	5	1	5	—	65
Alabama.....	4	177	—	2	—	2	—	2	—	1	1	34
Mississippi.....	—	68	—	1	—	1	—	—	—	2	—	—
WEST SOUTH CENTRAL....	99	4,159	3	5	3	13	—	13	3	11	17	478
Arkansas.....	—	314	—	1	—	2	—	2	—	—	4	54
Louisiana*.....	4	278	—	—	—	2	—	5	—	—	—	19
Oklahoma*.....	4	57	—	—	—	5	—	2	1	7	7	227
Texas.....	91	3,510	3	4	3	4	—	4	2	4	6	178
MOUNTAIN.....	12	1,752	—	2	—	3	1	6	1	5	—	35
Montana.....	—	108	—	—	—	1	—	—	—	2	—	—
Idaho.....	2	37	—	1	—	—	—	—	—	—	—	—
Wyoming.....	—	857	—	—	—	—	—	—	—	—	—	7
Colorado*.....	4	235	—	—	—	—	—	—	—	2	—	11
New Mexico.....	—	193	—	—	—	—	1	4	—	—	—	6
Arizona.....	6	262	—	1	—	—	—	2	—	—	—	10
Utah.....	—	46	—	—	—	2	—	—	1	1	—	—
Nevada.....	—	14	—	—	—	—	—	—	—	—	—	1
PACIFIC.....	367	8,464	—	4	—	—	1	30	—	—	9	201
Washington*.....	44	1,308	—	—	—	—	—	—	—	—	—	—
Oregon.....	21	639	—	—	—	—	—	—	—	—	—	—
California.....	295	6,363	—	4	—	—	1	29	—	—	9	167
Alaska*.....	2	43	—	—	—	—	—	1	—	—	—	34
Hawaii.....	5	111	—	—	—	—	—	—	—	—	—	—
Puerto Rico.....	—	12	—	5	—	—	1	2	—	—	2	36
Virgin Islands.....	—	—	—	—	—	—	—	—	—	—	—	—

*Delayed reports: Rubella: Wash. 69, Alaska 2

Tularemia: Okla. 1

Rabies in animals: La. delete 1, Colo. 11

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TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JUNE 19, 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		
NEW ENGLAND:	665	393	31	24	SOUTH ATLANTIC:	1,250	637	43	69
Boston, Mass.-----	183	94	11	7	Atlanta, Ga.-----	121	62	3	4
Bridgeport, Conn.-----	42	25	3	1	Baltimore, Md.-----	257	117	7	11
Cambridge, Mass.-----	18	13	3	—	Charlotte, N. C.-----	68	39	—	5
Fall River, Mass.-----	29	22	1	1	Jacksonville, Fla.-----	86	48	4	8
Hartford, Conn.-----	64	36	2	4	Miami, Fla.-----	101	49	1	5
Lowell, Mass.-----	14	10	1	—	Norfolk, Va.-----	61	25	2	2
Lynn, Mass.-----	13	12	—	—	Richmond, Va.-----	95	41	5	9
New Bedford, Mass.-----	23	20	1	—	Savannah, Ga.-----	41	23	3	—
New Haven, Conn.-----	52	27	—	2	St. Petersburg, Fla.-----	102	81	3	4
Providence, R. I.-----	55	31	1	2	Tampa, Fla.-----	65	36	6	4
Somerville, Mass.-----	15	10	1	—	Washington, D. C.-----	200	85	7	14
Springfield, Mass.-----	62	38	4	4	Wilmington, Del.-----	53	31	2	3
Waterbury, Conn.-----	37	23	1	1	EAST SOUTH CENTRAL:	609	357	21	22
Worcester, Mass.-----	58	32	2	2	Birmingham, Ala.-----	89	56	2	5
MIDDLE ATLANTIC:	3,453	2,028	132	122	Chattanooga, Tenn.-----	35	21	2	—
Albany, N. Y.-----	42	23	2	3	Knoxville, Tenn.-----	30	23	—	—
Allentown, Pa.-----	43	22	11	3	Louisville, Ky.-----	134	81	10	4
Buffalo, N. Y.-----	128	73	4	5	Memphis, Tenn.-----	136	70	2	9
Camden, N. J.-----	56	36	5	3	Mobile, Ala.-----	47	26	—	—
Elizabeth, N. J.-----	34	18	—	1	Montgomery, Ala.-----	34	18	2	—
Erie, Pa.-----	43	29	4	2	Nashville, Tenn.-----	104	62	3	4
Jersey City, N. J.-----	70	42	1	3	WEST SOUTH CENTRAL:	1,193	600	27	78
Newark, N. J.-----	90	36	2	9	Austin, Tex.-----	30	19	—	2
New York City, N. Y.-----	1,773	1,078	58	46	Baton Rouge, La.-----	43	19	—	8
Paterson, N. J.-----	44	26	3	2	Corpus Christi, Tex.-----	22	12	—	3
Philadelphia, Pa.-----	493	272	5	18	Dallas, Tex.-----	174	86	3	10
Pittsburgh, Pa.-----	217	104	14	8	El Paso, Tex.-----	34	13	4	3
Reading, Pa.-----	53	28	—	4	Fort Worth, Tex.-----	74	48	3	5
Rochester, N. Y.-----	104	68	9	7	Houston, Tex.-----	254	112	4	15
Schenectady, N. Y.-----	24	14	1	—	Little Rock, Ark.-----	55	33	3	3
Scranton, Pa.-----	50	29	1	1	New Orleans, La.-----	169	78	3	11
Syracuse, N. Y.-----	99	63	6	6	Oklahoma City, Okla.-----	83	39	1	3
Trenton, N. J.-----	40	31	1	—	San Antonio, Tex.-----	141	75	3	10
Utica, N. Y.-----	18	10	1	1	Shreveport, La.-----	64	36	2	4
Yonkers, N. Y.-----	32	26	4	—	Tulsa, Okla.-----	50	30	1	1
EAST NORTH CENTRAL:	2,552	1,400	79	126	MOUNTAIN:	447	243	16	24
Akron, Ohio-----	63	39	—	4	Albuquerque, N. Mex.-----	53	23	4	2
Canton, Ohio-----	25	15	1	2	Colorado Springs, Colo.-----	29	18	2	1
Chicago, Ill.-----	695	372	13	28	Denver, Colo.-----	106	58	3	5
Cincinnati, Ohio-----	170	103	4	10	Ogden, Utah-----	13	6	2	2
Cleveland, Ohio-----	189	101	5	13	Phoenix, Ariz.-----	114	56	—	10
Columbus, Ohio-----	88	47	5	4	Pueblo, Colo.-----	18	12	4	—
Dayton, Ohio-----	119	70	2	3	Salt Lake City, Utah-----	63	41	—	1
Detroit, Mich.-----	383	184	9	26	Tucson, Ariz.-----	51	29	1	3
Evansville, Ind.-----	40	21	2	3	PACIFIC:	1,724	996	34	58
Flint, Mich.-----	64	28	2	6	Berkeley, Calif.-----	21	17	—	—
Fort Wayne, Ind.-----	47	27	3	1	Fresno, Calif.-----	49	22	—	4
Gary, Ind.-----	41	21	6	4	Glendale, Calif.-----	27	16	2	—
Grand Rapids, Mich.-----	55	33	6	2	Honolulu, Hawaii-----	52	24	1	9
Indianapolis, Ind.-----	131	63	—	3	Long Beach, Calif.-----	93	56	2	—
Madison, Wis.-----	28	10	4	2	Los Angeles, Calif.-----	571	330	9	11
Milwaukee, Wis.-----	112	72	4	1	Oakland, Calif.-----	70	40	1	3
Peoria, Ill.-----	47	25	—	3	Pasadena, Calif.-----	27	20	1	1
Rockford, Ill.-----	49	31	5	2	Portland, Oreg.-----	148	84	2	6
South Bend, Ind.-----	47	32	3	5	Sacramento, Calif.-----	60	32	—	1
Toledo, Ohio-----	108	71	5	4	San Diego, Calif.-----	110	69	1	2
Youngstown, Ohio-----	51	35	—	—	San Francisco, Calif.-----	200	102	2	7
WEST NORTH CENTRAL:	804	485	21	46	San Jose, Calif.-----	51	34	—	—
Des Moines, Iowa-----	60	42	2	1	Seattle, Wash.-----	151	89	10	9
Duluth, Minn.-----	31	21	2	—	Spokane, Wash.-----	51	30	1	4
Kansas City, Kans.-----	48	28	2	8	Tacoma, Wash.-----	43	31	2	1
Kansas City, Mo.-----	117	80	2	4	Total	12,697	7,139	404	569
Lincoln, Nebr.-----	30	22	3	3	Expected Number	12,547	7,158	410	525
Minneapolis, Minn.-----	88	53	1	5	Cumulative Total (includes reported corrections for previous weeks)	319,267	184,941	12,612	14,181
Omaha, Nebr.-----	83	48	—	6					
St. Louis, Mo.-----	218	123	4	13					
St. Paul, Minn.-----	84	45	—	3					
Wichita, Kans.-----	45	23	5	3					
Las Vegas, Nev.*	25	6	1	—					

*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.

SALMONELLOSIS — (Continued from page 217)

Frankfurt Veterinary Institute and yielded *S. typhi-murium*. Cultures of samples of fish fillets, eggs, soup, ham, and bacon also served at the meal were negative for salmonellae. All employees at the factory submitted stool specimens for examination, and 187 were found to be positive for *S. typhi-murium*. On March 8, 1971, 13 employees were still excret-

ing this organism. The exact mode of infection of the potato salad and the remoulade sauce was not determined.

(Reported by Erich G. Martin, M.D., Epidemiologist, Wiesbaden, Hesse Social Ministry, Germany; Raimund Gratenau, M.D., Medical Officer in Charge, USPHS, Frankfurt/M., Germany; and the Foreign Quarantine Program, CDC.)

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:

NEW JERSEY

Englewood Cliffs CPC International
International Plaza, 07632
201, 894-2368
By appointment
Fee charged

NORTH CAROLINA

Wilmington

U.S. Public Health Service Contract
Physician Clinic

2205 Delaney Rd., 28401
919, 763-0159

By appointment, and daily 3-5 p.m.,
except Wed.

Fee charged

ERRATA

Vol. 20, No. 22, p. 199

In the article "Lead Poisoning — Oregon" the name of Grand Ronde was incorrectly printed as Grand Rhonde.

Vol. 20, No. 23, p. 208

Correct the last sentence in the first paragraph to read ". . . compared with 23 deaths reported in the 12 months prior to the new abortion law."

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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

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