



# Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE  
DATE OF RELEASE: JANUARY 4, 1973 - ATLANTA, GEORGIA 30333

**EPIDEMIOLOGIC NOTES AND REPORTS**  
**TYPE A BOTULISM - California**

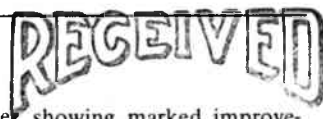
On November 22, 1973, 16 persons gathered for a Thanksgiving meal in San Jose, California. Early the next morning, 2 men, ages 41 and 36, developed dry sore throat, diplopia, dysphagia, and dysphonia. Both subsequently experienced generalized paralysis and respiratory failure requiring mechanical ventilatory assistance. They were treated with cathartics and enemas. The 41-year-old man received 7 vials of trivalent (ABE) botulinum antitoxin, the other received 4 vials.

Approximately 24 hours after the meal, a 39-year-old woman developed diplopia, and on November 25, a 64-year-old woman experienced vomiting, diarrhea, and ptosis. Both were initially purged and were given 4 vials of trivalent (ABE) botulinum antitoxin soon after symptoms developed.

The 41-year-old man subsequently died, the younger man is slowly recovering, and both women have been dis-

**CONTENTS**

Epidemiologic Notes and Reports  
Type A Botulism - California . . . . . 425  
Influenza - California, Georgia, United States . . . . . 426  
Surveillance Summary  
Rubella - United States, 1972 and the First 26 Weeks of 1973 . . . . . 439  
Index, Volume 22 . . . . . 435



charged from the hospital after showing marked improvement. JAN 4 1974

Epidemiologic investigation incriminated home-canned chili sauce. The 2 men had eaten approximately 10 teaspoonfuls of the sauce; the first woman to become ill had eaten 2 teaspoonfuls while the other had eaten a smaller portion. A 38-year-old woman who had also tasted a small amount of sauce was purged and was treated with 1 vial of trivalent

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

DISEASE	51st WEEK ENDING		MEDIAN 1968-1972	CUMULATIVE, FIRST 51 WEEKS		
	December 22, 1973	December 23, 1972		1973	1972	MEDIAN 1968-1972
Aseptic meningitis . . . . .	35	70	58	4,607	4,214	4,294
Brucellosis . . . . .	-	2	3	175	183	212
Chickenpox . . . . .	2,268	3,196	- - -	159,996	137,439	- - -
Diphtheria . . . . .	17	1	3	210	119	207
Encephalitis, primary:						
Arthropod-borne and unspecified . . . . .	17	10	21	1,485	1,108	1,432
Encephalitis, post-infectious . . . . .	3	8	6	267	274	323
Hepatitis, serum (Hepatitis B) . . . . .	119	137	126	7,952	8,712	7,198
Hepatitis, infectious (Hepatitis A) . . . . .	956	963	963	50,865	53,681	53,681
Malaria . . . . .	1	5	27	236	806	2,835
Measles (rubeola) . . . . .	230	380	509	26,484	31,059	31,059
Meningococcal infections, total . . . . .	18	24	36	1,336	1,313	2,430
Civilian . . . . .	18	24	33	1,310	1,265	2,127
Military . . . . .	-	-	4	26	48	223
Mumps . . . . .	1,234	1,510	2,213	68,043	70,245	100,646
Rubella (German measles) . . . . .	191	771	437	27,827	24,924	48,165
Tetanus . . . . .	1	2	2	87	117	135
Tuberculosis, new active . . . . .	520	544	- - -	30,570	33,129	- - -
Tularemia . . . . .	-	4	1	157	144	162
Typhoid fever . . . . .	4	4	6	619	375	375
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	8	1	1	635	521	403
Veneral Diseases:						
Gonorrhea . . . . .	13,471	14,112	- - -	810,705	744,296	- - -
Syphilis, primary and secondary . . . . .	421	511	- - -	24,850	25,271	- - -
Rabies in animals . . . . .	32	43	55	3,255	3,910	3,312

**TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY**

	Cum.		Cum.
Anthrax: . . . . .	1	Poliomyelitis, total: . . . . .	7
Botulism: . . . . .	32	Paralytic: . . . . .	5
Congenital rubella syndrome: Ariz. 1 . . . . .	38	Psittacosis: . . . . .	25
Leprosy: Calif. 1 . . . . .	132	Rabies in man: . . . . .	1
Leptospirosis: . . . . .	38	Trichinosis: . . . . .	77
Plague: . . . . .	2	Typhus, murine: . . . . .	31

**BOTULISM – Continued**

(ABE) botulinal antitoxin prophylactically; she has remained asymptomatic.

The chili sauce was canned at home in August 1973. The peppers were ground in a blender, boiled for 45 minutes, and then placed in 20 hot jars which contained only salt. The jar in question was the only one that was opened. A "popping" sound was heard when its lid was removed, but the sauce smelled and tasted normal.

Type A botulinal toxin was detected in the pretreatment serum and stool specimens of the 4 symptomatic patients and in left-over chili sauce. A pretreatment serum specimen and a post-treatment stool specimen from the

asymptomatic individual were negative for botulinal toxin. (Reported by Cynthia A. Lacy, M.D., and James E. Lewis, M.D., private physicians, Sunnyvale Medical Clinic, Sunnyvale, California; Robert L. Weinmann, M.D., private neurologist, San Jose, California; Harvey De Boer, M.P.H., Laboratory Director, John Turner, R.S., Supervising Sanitarian, and Mary H. Clark, M.D., M.P.H., Deputy Director, Santa Clara County Health Department; Thaddeus F. Midura, Ph.D., Research Microbiologist, Microbial Diseases Laboratory, Michael P. Hudgins, M.D., Resident in Preventive Medicine, S. Benson Werner, M.D., Medical Epidemiologist, Infectious Disease Section, California State Department of Health; and an EIS Officer.)

**INFLUENZA – California, Georgia, the United States****Influenza A**

As reported previously (MMWR, Vol. 22, No. 47), the first virologically confirmed cases of influenza A in North America occurred in a retired physician and his wife who returned in October from The International Congress of Allergy in Tokyo, Japan. Eighty-three American physicians from 22 states and the District of Columbia attended this meeting and returned on the same charter flight as the affected Canadians. CDC, with the cooperation of the state epidemiologists, sent questionnaires to these 83 physicians to determine whether they had had influenza-like disease while in Japan or upon their return to the United States. An influenza-like disease was defined as fever, headache, and 1 or more of the following: cough, malaise, myalgia, or rhinorrhea. A possible influenza-like illness was defined as 2 or more symptoms without fever.

Seventy (85%) of the 83 physicians responded to the questionnaire. Eighteen (26%) had an influenza-like illness, and 9 (13%) had a possible influenza-like disease. None of the cases were confirmed either serologically or virologically. (Reported by the Viral Diseases Branch, Bureau of Epidemiology, CDC.)

**Influenza B**

**California:** The first virologically confirmed cases of influenza in the United States have occurred in California. Two boys, aged 9 and 10, had an illness characterized by vomiting, headache, cough, and nasal congestion during the first week in December. Chest x-rays were normal; however, 1 boy had a leukopenia. Viral cultures from both boys have grown a virus similar to B/Hong Kong/5/72.

Shortly before the boys became ill, their mother had an illness characterized by fever, headache, nasal congestion, and cough. Five days after the onset of this illness she developed right-sided pleuritic chest pain and dyspnea. She was admitted to the emergency room of a local hospital in San Mateo County where she was found to be cyanotic, febrile (temperature 102.6°F), and hypotensive (blood pressure 90/0). Her white blood cell count was 700 with 6 polymorphonuclear leukocytes, 8 "stabs", 53 lymphocytes, 13 monocytes, and 20 metamyelocytes. Her chest x-ray showed mottling over 1 lung field and the base of the other lung field. She died 5 hours after admission to the hospital. Postmortem studies showed that she had *Staphylococcus aureus* septicemia, pulmonary edema, and a viral pneumonitis.

School and industrial absenteeism as well as hospital emergency room visits appear to be at normal levels for San Mateo County and San Francisco County, indicating that there is not widespread disease in those areas.

(Reported by George W. Frecker, Jr., M.D., Myron M. Faber, M.D., Gerald Harris, M.D., private physicians, Daly City, California; Arthur R. Lack, Jr., M.D., Pathologist, San Mateo County Coroner's Office; James M. Bodie, San Mateo County Health Department; the Viral and Rickettsial Disease Laboratory, and the Division of Epidemiology, California Department of Health.)

**Editorial Note**

This case report from California, while not conclusive, suggests that the mother of the 2 boys may have had influenza and spread it to her sons. The mother's case emphasizes that secondary bacterial pneumonia may complicate viral pneumonitis and that leukopenia which may occur with viral infections may make antibacterial treatment more difficult. In general, influenza is an uncomfortable but benign disease; however, this woman's case may demonstrate some of its rarer complications.

**Georgia:** A 9-month-old girl with a 4-day course of fever and cough was seen on December 20, 1973, in the emergency room of Grady Memorial Hospital in Atlanta. A throat culture was positive for a virus similar to B/Hong Kong/5/72. For the week ending December 23 the percentage of febrile respiratory disease in both the medical and pediatric emergency clinics had not changed from previous weeks, indicating that there is not widespread febrile respiratory disease in Atlanta.

(Reported by John McGowan, M.D., and William Marine, M.D., Grady Hospital Epidemiology Unit, Emory Departments of Medicine and Preventive Medicine and Community Health; Maurice Miot, Chief, Virology Laboratory, and John McCroan, Ph.D., State Epidemiologist, Georgia Department of Human Resources.)

**United States**

The WHO cooperating laboratories have to date reported to CDC that there have been 6 serologically confirmed cases of influenza A. They have occurred in Kansas, North Carolina, Oregon (2), Tennessee, and Texas. In addition, there have been 3 serologically confirmed cases of influenza B in Minnesota, Missouri, and Oregon. However, no outbreaks of influenza-like disease have been reported in this country.

(Text continued on page 439)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 22, 1973 AND DECEMBER 23, 1972 (51st WEEK)

AREA	ASEPTIC MENINGITIS	BRUCellosIS	CHICKEN-POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS		
						Primary including unspec. cases		Post Infectious	Serum (Hepatitis B)	Infectious (Hepatitis A)	
						1973	1972	1973	1973	1973	1972
UNITED STATES	35	-	2,268	17	210	17	10	3	119	956	963
NEW ENGLAND	-	-	390	-	3	1	-	-	4	61	65
Maine *	-	-	-	-	-	-	-	-	-	-	3
New Hampshire*	-	-	27	-	-	-	-	-	-	3	8
Vermont	-	-	38	-	-	-	-	-	-	22	1
Massachusetts	-	-	188	-	1	1	-	-	-	18	34
Rhode Island	-	-	57	-	2	-	-	-	1	9	-
Connecticut	-	-	80	-	-	-	-	-	3	9	19
MIDDLE ATLANTIC	12	-	34	-	-	1	-	1	18	116	161
Upstate New York	2	-	-	-	-	-	-	1	3	48	35
New York City	-	-	30	-	-	-	-	-	1	6	37
New Jersey	7	-	NN	-	-	1	-	-	7	41	38
Pennsylvania	3	-	4	-	-	-	-	-	7	21	51
EAST NORTH CENTRAL	5	-	967	-	2	6	3	-	21	218	160
Ohio *	1	-	32	-	1	3	2	-	3	38	46
Indiana *	1	-	70	-	-	-	-	-	1	7	12
Illinois	1	-	-	-	1	-	-	-	4	79	28
Michigan	2	-	465	-	-	3	-	-	9	81	68
Wisconsin	-	-	400	-	-	-	1	-	4	13	6
WEST NORTH CENTRAL	2	-	252	-	7	-	2	-	8	38	39
Minnesota	2	-	-	-	-	-	-	-	-	4	5
Iowa	-	-	228	-	-	-	1	-	-	-	3
Missouri	-	-	3	-	-	-	1	-	5	13	25
North Dakota	-	-	12	-	-	-	-	-	-	3	-
South Dakota	-	-	1	-	7	-	-	-	-	10	3
Nebraska	-	-	-	-	-	-	-	-	1	2	-
Kansas	-	-	8	-	-	-	-	-	2	6	3
SOUTH ATLANTIC	6	-	179	-	9	3	3	-	20	201	132
Delaware	-	-	-	-	-	-	-	-	-	1	6
Maryland	1	-	25	-	-	-	-	-	-	1	6
District of Columbia	-	-	1	-	-	-	-	-	1	1	5
Virginia	2	-	4	-	-	-	-	-	-	21	16
West Virginia *	1	-	130	-	-	-	-	-	-	6	3
North Carolina	-	-	NN	-	-	-	-	-	-	13	24
South Carolina	-	-	19	-	-	1	-	-	2	19	5
Georgia	-	-	-	-	2	-	-	-	-	32	13
Florida	2	-	-	-	7	2	3	-	17	107	54
EAST SOUTH CENTRAL	1	-	54	-	5	2	-	-	4	52	66
Kentucky	-	-	53	-	-	-	-	-	-	16	19
Tennessee	1	-	NN	-	-	-	-	-	-	29	25
Alabama	-	-	1	-	5	-	-	-	2	2	15
Mississippi	-	-	-	-	-	2	-	-	2	5	7
WEST SOUTH CENTRAL	1	-	3	-	19	-	1	-	-	24	87
Arkansas	-	-	-	-	-	-	1	-	-	3	3
Louisiana*	-	-	NN	-	2	-	-	-	-	7	19
Oklahoma	1	-	3	-	-	-	-	-	-	14	4
Texas	---	---	---	---	17	---	---	---	---	---	61
MOUNTAIN	-	-	65	-	51	-	-	-	1	85	55
Montana	-	-	33	-	-	-	-	-	-	7	5
Idaho	-	-	-	-	-	-	-	-	1	5	7
Wyoming	-	-	-	-	-	-	-	-	-	-	1
Colorado	-	-	16	-	-	-	-	-	-	2	12
New Mexico	-	-	12	-	27	-	-	-	-	11	6
Arizona	-	-	-	-	24	-	-	-	-	48	12
Utah	-	-	3	-	-	-	-	-	-	11	10
Nevada	-	-	1	-	-	-	-	-	-	1	2
PACIFIC	8	-	324	17	114	4	1	2	43	161	198
Washington	-	-	297	16	102	-	-	-	1	13	23
Oregon	-	-	-	-	4	-	-	-	3	24	37
California	8	-	-	1	6	4	1	2	39	123	122
Alaska	-	-	11	-	2	-	-	-	-	-	11
Hawaii	-	-	16	-	-	-	-	-	-	1	5
Guam *	-	-	-	-	-	-	-	-	-	-	2
Puerto Rico	-	-	5	-	-	-	-	-	1	12	17
Virgin Islands	-	-	-	-	-	-	-	-	-	-	-

\*Delayed reports: Aseptic meningitis: W. Va. 1  
 Chickenpox: Me. 34, N. H. 11, Guam 1  
 Diphtheria: La. 1  
 Hepatitis B: Ohio 1, La. 3  
 Hepatitis A: Me. 6, N. H. 2, Ohio delete 1, Ind. delete 1  
 W. Va. delete 2, La. 5, Guam 5

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING DECEMBER 22, 1973 AND DECEMBER 23, 1972 (51st WEEK) - Continued

AREA	MALARIA		MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		RUBELLA	
	1973	Cum. 1973	1973	Cumulative		1973	Cumulative		1973	Cum. 1973	1973	Cum. 1973
				1973	1972		1973	1972				
UNITED STATES	1	236	230	26,484	31,059	18	1,336	1,313	1,234	68,043	191	27,827
NEW ENGLAND	-	17	21	7,656	4,440	1	55	56	179	4,727	12	3,733
Maine*	-	-	-	70	256	1	2	4	1	505	-	74
New Hampshire*	-	-	10	1,033	836	-	7	3	19	266	1	385
Vermont	-	2	1	121	128	-	3	-	2	278	1	49
Massachusetts	-	7	3	3,969	1,186	-	15	25	59	1,277	5	2,090
Rhode Island	-	1	6	645	526	-	3	12	52	856	2	229
Connecticut	-	7	1	1,818	1,508	-	25	12	46	1,545	3	906
MIDDLE ATLANTIC	-	39	45	2,911	1,184	1	185	165	105	8,106	9	4,315
Upstate New York	-	19	2	823	178	-	65	40	NN	NN	2	479
New York City	-	4	2	951	439	-	36	45	13	4,748	4	499
New Jersey	-	5	41	737	500	1	49	32	29	1,679	2	3,028
Pennsylvania	-	11	-	400	67	-	35	48	63	1,679	1	309
EAST NORTH CENTRAL	-	31	107	9,163	12,335	3	182	194	328	17,334	76	6,493
Ohio	-	5	44	361	310	1	77	78	24	3,138	3	716
Indiana	-	3	6	713	1,368	-	6	14	24	1,756	1	1,015
Illinois	-	17	22	2,204	4,478	-	28	40	68	2,869	48	1,101
Michigan	-	6	20	4,533	2,329	1	53	54	160	4,895	15	1,984
Wisconsin	-	-	15	1,352	3,850	1	18	8	52	4,676	9	1,677
WEST NORTH CENTRAL	-	10	3	467	1,375	-	93	94	114	5,871	1	1,242
Minnesota	-	2	-	24	27	-	13	25	2	105	1	225
Iowa	-	1	-	281	1,032	-	22	6	96	3,742	-	208
Missouri	-	3	-	56	181	-	34	30	4	787	-	273
North Dakota	-	1	3	70	60	-	3	-	2	78	-	277
South Dakota	-	-	-	3	12	-	5	2	-	20	-	23
Nebraska	-	1	-	6	24	-	7	11	4	190	-	141
Kansas	-	2	-	27	39	-	9	20	6	949	-	95
SOUTH ATLANTIC	-	37	2	1,328	2,335	3	224	291	122	7,613	20	2,387
Delaware	-	-	-	10	56	-	2	1	3	285	-	16
Maryland	-	8	-	14	15	-	31	40	3	699	-	11
District of Columbia	-	2	-	8	2	-	5	12	3	163	-	4
Virginia	-	8	-	429	77	1	47	62	3	780	-	636
West Virginia*	-	-	-	232	303	-	7	9	42	2,634	1	346
North Carolina	-	7	-	4	38	-	43	35	NN	NN	2	204
South Carolina	-	1	1	79	217	-	13	29	3	377	-	88
Georgia	-	3	-	154	195	-	23	22	-	32	-	13
Florida	-	8	1	398	1,432	2	53	81	65	2,643	17	1,069
EAST SOUTH CENTRAL	-	14	1	641	1,086	4	128	99	167	5,772	28	1,503
Kentucky	-	9	1	404	544	-	48	30	37	1,756	5	424
Tennessee	-	-	-	165	195	-	45	33	128	2,785	22	637
Alabama	-	5	-	14	154	1	19	20	1	744	-	209
Mississippi	-	-	-	58	193	3	16	16	1	487	1	233
WEST SOUTH CENTRAL	-	13	-	753	1,735	2	213	166	26	4,693	-	1,524
Arkansas	-	-	-	75	14	-	14	13	2	412	-	116
Louisiana*	-	2	-	89	110	-	53	51	15	132	-	100
Oklahoma	-	2	-	66	11	2	35	14	9	493	-	182
Texas	---	9	---	523	1,600	---	111	88	---	3,656	---	1,126
MOUNTAIN	-	9	35	1,073	1,971	2	39	32	52	2,821	15	2,457
Montana	-	1	33	337	18	1	10	6	31	313	13	531
Idaho	-	1	-	256	156	-	4	8	1	130	-	45
Wyoming	-	-	-	81	51	-	1	1	-	436	-	7
Colorado	-	2	1	111	540	-	11	6	16	605	1	1,570
New Mexico	-	2	-	136	139	-	3	3	4	1,031	-	212
Arizona	-	2	1	22	907	1	6	1	-	140	1	8
Utah	-	1	-	129	159	-	2	6	-	157	-	80
Nevada	-	-	-	1	1	-	2	1	-	9	-	4
PACIFIC	1	66	16	2,492	4,598	2	217	216	141	11,106	30	4,173
Washington	-	4	-	1,110	996	-	22	20	30	1,907	9	769
Oregon	-	4	-	461	196	-	17	14	45	2,104	5	828
California	1	55	16	836	3,295	2	167	170	62	5,887	14	2,529
Alaska	-	2	-	65	13	-	10	9	3	929	-	19
Hawaii	-	1	-	20	98	-	1	3	1	279	2	28
Guam*	-	-	-	52	17	-	1	13	-	37	-	14
Puerto Rico	-	-	22	2,031	1,088	-	11	4	25	942	-	39
Virgin Islands	-	-	-	7	3	-	-	2	-	34	-	2

\*Delayed reports: Measles: N. H. 9 Mumps: Me. 24, N. H. 11, Guam 3  
Meningococcal infections: W. Va. 1, La. 1 Rubella: Me. 2

## Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING DECEMBER 22, 1973 AND DECEMBER 23, 1972 (51st WEEK) - Continued

AREA	TETANUS Cumulative 1973	TUBERCULOSIS (New Active)		TULA- REMIA Cumulative 1973	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES		RABIES IN ANIMALS	
		1973	Cum. 1973		1973	Cum. 1973	1973	Cum. 1973	GONOR- RHEA	SYPHILIS (Pri. & Sec.)	1973	Cum. 1973
		1973	1973		1973	1973	1973	1973	1973	1973	1973	1973
UNITED STATES	87	520	30,570	157	4	619	8	635	13,471	421	32	3,255
NEW ENGLAND	2	19	1,154	-	-	21	-	4	357	6	1	117
Maine	-	3	107	-	-	-	-	-	29	-	1	64
New Hampshire	-	1	55	-	-	-	-	-	14	-	-	37
Vermont	-	-	30	-	-	-	-	-	-	-	-	3
Massachusetts	-	12	619	-	-	17	-	3	165	6	-	6
Rhode Island	1	-	90	-	-	-	-	-	41	-	-	1
Connecticut	1	3	253	-	-	4	-	1	108	-	-	6
MIDDLE ATLANTIC	7	85	5,880	-	-	66	-	38	1,951	81	-	54
Upstate New York	1	12	1,029	-	-	10	-	13	572	7	-	26
New York City	3	27	2,170	-	-	26	-	4	668	36	-	-
New Jersey	2	11	1,049	-	-	20	-	5	271	14	-	-
Pennsylvania	1	35	1,632	-	-	10	-	16	440	24	-	28
EAST NORTH CENTRAL	13	92	4,532	3	-	50	-	19	1,881	19	2	314
Ohio*	3	29	1,335	-	-	20	-	14	507	8	-	38
Indiana	4	16	582	-	-	1	-	-	247	-	-	53
Illinois	3	28	1,407	1	-	11	-	5	266	-	-	72
Michigan	1	19	1,131	2	-	14	-	-	658	10	-	11
Wisconsin*	2	-	77	-	-	4	-	-	203	1	2	140
WEST NORTH CENTRAL	7	26	1,283	22	-	29	-	25	1,046	5	10	1,018
Minnesota	-	3	152	-	-	8	-	2	221	1	5	386
Iowa	-	1	127	-	-	-	-	7	149	-	2	205
Missouri	6	15	624	21	-	13	-	9	306	3	1	92
North Dakota	1	2	40	-	-	-	-	-	13	-	2	153
South Dakota	-	4	89	-	-	1	-	1	52	-	-	81
Nebraska	-	-	81	-	-	1	-	2	110	1	-	7
Kansas	-	1	170	1	-	6	-	4	195	-	-	94
SOUTH ATLANTIC	20	132	6,100	19	1	254	8	315	3,587	161	5	297
Delaware	-	1	97	-	-	1	-	8	57	-	-	5
Maryland	-	6	662	6	-	9	-	14	320	20	-	15
District of Columbia	-	12	301	-	-	1	-	-	258	19	-	-
Virginia	3	25	819	6	-	3	-	61	387	26	2	97
West Virginia	1	6	308	-	-	12	-	4	47	-	-	24
North Carolina*	-	23	978	2	-	5	-	141	450	45	-	14
South Carolina	2	-	485	-	1	7	-	32	256	12	-	6
Georgia	3	20	964	3	-	3	8	54	910	15	3	94
Florida	11	39	1,486	2	-	213	-	1	902	24	-	42
EAST SOUTH CENTRAL	9	44	2,824	10	2	46	-	112	1,091	7	-	401
Kentucky	1	7	637	1	-	11	-	-	122	2	-	210
Tennessee	5	14	874	7	-	16	-	52	308	3	-	148
Alabama	3	15	795	-	-	10	-	28	394	2	-	42
Mississippi	-	8	518	2	2	9	-	32	267	-	-	1
WEST SOUTH CENTRAL	15	21	3,154	92	1	27	-	106	802	17	-	565
Arkansas	1	8	388	62	1	6	-	20	91	1	-	116
Louisiana	4	8	453	1	-	6	-	-	570	7	-	51
Oklahoma	4	5	281	21	-	2	-	75	141	9	-	160
Texas	6	-	2,032	8	-	13	-	11	-	-	-	238
MOUNTAIN	-	18	1,042	8	-	14	-	8	657	20	-	56
Montana	-	2	59	-	-	-	-	1	25	-	-	10
Idaho	-	-	32	1	-	1	-	2	53	-	-	-
Wyoming	-	2	32	2	-	1	-	1	14	-	-	-
Colorado	-	-	212	-	-	2	-	1	223	7	-	-
New Mexico	-	9	218	2	-	4	-	3	79	7	-	7
Arizona	-	-	373	-	-	6	-	-	245	4	-	36
Utah	-	4	54	2	-	-	-	-	10	-	-	3
Nevada	-	1	62	1	-	-	-	-	8	2	-	-
PACIFIC	14	83	4,601	3	-	112	-	8	2,099	105	14	433
Washington	3	10	356	1	-	7	-	5	198	-	-	9
Oregon	-	2	243	1	-	2	-	2	210	2	-	8
California	11	64	3,617	1	-	98	-	1	1,613	101	14	408
Alaska	-	-	105	-	-	4	-	-	33	1	-	8
Hawaii	-	7	280	-	-	1	-	-	45	1	-	-
Guam*	-	-	39	-	-	-	-	-	-	-	-	-
Puerto Rico	11	4	491	-	-	11	-	-	106	14	1	55
Virgin Islands	-	-	2	-	-	-	-	-	-	-	-	-

\*Delayed reports: TB: Ohio delete 4, N. C. delete 3  
Gonorrhea: Guam 7  
Syphilis: Wis. delete 1

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING DECEMBER 22, 1973

Week No.

51

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

Area	All Causes			Pneumonia and Influenza All Ages	Area	All Causes			Pneumonia and Influenza All Ages
	All Ages	65 years and over	Under 1 year			All Ages	65 years and over	Under 1 year	
NEW ENGLAND	736	472	26	38	SOUTH ATLANTIC	1,093	634	32	44
Boston, Mass.	218	133	11	9	Atlanta, Ga.	124	63	4	5
Bridgeport, Conn.	53	32	1	4	Baltimore, Md.	172	97	3	4
Cambridge, Mass.	28	23	—	7	Charlotte, N. C.	54	33	3	—
Fall River, Mass.	32	24	—	1	Jacksonville, Fla.	101	65	5	3
Hartford, Conn.	74	37	5	2	Miami, Fla.	124	60	4	3
Lowell, Mass.	25	18	2	2	Norfolk, Va.	50	26	1	6
Lynn, Mass.	25	19	—	1	Richmond, Va.	64	37	1	4
New Bedford, Mass.	25	22	—	1	Savannah, Ga.	56	19	3	7
New Haven, Conn.	52	32	3	2	St. Petersburg, Fla.	107	92	—	3
Providence, R. I.	56	33	1	2	Tampa, Fla.	63	47	3	4
Somerville, Mass.	15	11	—	1	Washington, D. C.	149	82	3	1
Springfield, Mass.	56	36	1	2	Wilmington, Del.	29	13	2	4
Waterbury, Conn.	22	18	—	—	EAST SOUTH CENTRAL	731	418	34	38
Worcester, Mass.	55	34	2	4	Birmingham, Ala.	106	55	11	2
MIDDLE ATLANTIC	3,191	1,928	85	111	Chattanooga, Tenn.	56	38	2	5
Albany, N. Y.	53	38	2	—	Knoxville, Tenn.	65	36	3	1
Allentown, Pa.	23	16	—	1	Louisville, Ky.	127	75	4	8
Buffalo, N. Y.	142	79	3	9	Memphis, Tenn.	153	80	6	3
Camden, N. J.	46	22	2	1	Mobile, Ala.	73	45	4	4
Elizabeth, N. J.	29	17	—	—	Montgomery, Ala.	56	34	1	7
Erie, Pa.	40	22	—	4	Nashville, Tenn.	95	55	3	8
Jersey City, N. J.	56	37	1	3	WEST SOUTH CENTRAL	1,228	675	69	43
Newark, N. J.	71	27	10	—	Austin, Tex.	31	22	1	2
New York City, N. Y.†	1,563	962	41	57	Baton Rouge, La.	46	20	2	3
Paterson, N. J.	52	31	—	3	Corpus Christi, Tex.	30	18	2	—
Philadelphia, Pa.	502	274	14	5	Dallas, Tex.	194	109	11	3
Pittsburgh, Pa.	184	104	5	11	El Paso, Tex.	48	28	3	7
Reading, Pa.	34	25	—	1	Fort Worth, Tex.	78	46	5	3
Rochester, N. Y.	138	94	3	8	Houston, Tex.	267	135	11	7
Schenectady, N. Y.	29	24	—	—	Little Rock, Ark.	60	32	7	5
Scranton, Pa.	42	28	—	1	New Orleans, La.	172	104	6	1
Syracuse, N. Y.	89	60	2	—	San Antonio, Tex.	164	80	15	5
Trenton, N. J.	42	26	1	2	Shreveport, La.	76	42	3	2
Utica, N. Y.	23	16	1	3	Tulsa, Okla.	62	39	3	5
Yonkers, N. Y.	33	26	—	2	MOUNTAIN	571	352	20	26
EAST NORTH CENTRAL	2,508	1,437	106	73	Albuquerque, N. Mex.	51	25	4	1
Akron, Ohio	47	17	5	—	Colorado Springs, Colo.	37	22	—	4
Canton, Ohio	43	28	—	3	Denver, Colo.	121	77	2	3
Chicago, Ill.	705	386	18	19	Las Vegas, Nev.	31	13	1	1
Cincinnati, Ohio	141	90	6	3	Ogden, Utah	31	21	2	3
Cleveland, Ohio	200	105	10	4	Phoenix, Ariz.	140	96	6	7
Columbus, Ohio	134	70	12	4	Pueblo, Colo.	33	24	1	3
Dayton, Ohio	109	62	5	3	Salt Lake City, Utah	53	32	2	4
Detroit, Mich.	338	176	25	8	Tucson, Ariz.	74	42	2	—
Evansville, Ind.	49	33	1	1	PACIFIC	1,754	1,128	51	39
Fort Wayne, Ind.	38	20	—	—	Berkeley, Calif.	25	17	—	1
Gary, Ind.	37	16	2	5	Fresno, Calif.	72	46	2	1
Grand Rapids, Mich.	55	37	1	1	Glendale, Calif.	26	17	—	—
Indianapolis, Ind.	149	98	5	6	Honolulu, Hawaii	46	23	2	—
Madison, Wis.	49	31	1	7	Long Beach, Calif.	95	61	3	3
Milwaukee, Wis.	128	82	5	2	Los Angeles, Calif.	557	353	23	8
Peoria, Ill.	38	28	3	—	Oakland, Calif.	91	66	3	—
Rockford, Ill.	43	30	—	4	Pasadena, Calif.	47	36	2	—
South Bend, Ind.	41	26	2	3	Portland, Oreg.	138	86	3	1
Toledo, Ohio	98	59	3	—	Sacramento, Calif.	78	47	—	2
Youngstown, Ohio	66	43	2	—	San Diego, Calif.	142	85	1	1
WEST NORTH CENTRAL	835	538	34	30	San Francisco, Calif.	172	113	4	9
Des Moines, Iowa	78	54	1	1	San Jose, Calif.	53	40	3	3
Duluth, Minn.	15	13	—	2	Seattle, Wash.	136	79	4	6
Kansas City, Kans.	34	11	1	1	Spokane, Wash.	42	33	1	3
Kansas City, Mo.	148	103	5	2	Tacoma, Wash.	34	26	—	1
Lincoln, Nebr.	36	25	1	1	Total	12,647	7,582	457	442
Minneapolis, Minn.	96	67	5	3	Expected Number	12,918	7,675	466	474
Omaha, Nebr.	59	40	2	1	Cumulative Total (includes reported corrections for previous weeks)	647,416	381,028	24,316	25,303
St. Louis, Mo.	192	109	6	7					
St. Paul, Minn.	89	62	4	2					
Wichita, Kans.	88	54	9	10					

†Delayed report for week ending December 15, 1973

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 29, 1973 AND DECEMBER 30, 1972 (52nd WEEK)

AREA	ASEPTIC MENINGITIS	BRUCELLOSIS	CHICKEN-POX	DIPHTHERIA		ENCEPHALITIS			HEPATITIS		
						Primary including unsp. cases		Post Infectious	Serum (Hepatitis B)	Infectious (Hepatitis A)	
						1973	1972	1973	1973	1973	1972
UNITED STATES	36	2	1,732	5	214	10	27	2	121	578	762
NEW ENGLAND	1	-	308	-	3	1	-	-	3	54	59
Maine *	-	-	5	-	-	-	-	-	-	2	12
New Hampshire *	-	-	9	-	-	-	-	-	-	5	5
Vermont	-	-	3	-	-	-	-	-	-	3	2
Massachusetts	1	-	138	-	1	1	-	-	1	37	19
Rhode Island	-	-	51	-	2	-	-	-	2	2	7
Connecticut	-	-	102	-	-	-	-	-	-	5	14
MIDDLE ATLANTIC	2	-	40	-	-	1	3	1	15	68	88
Upstate New York	-	-	1	-	-	-	-	-	-	10	19
New York City	2	-	29	-	-	-	-	-	3	13	19
New Jersey	-	-	NN	-	-	1	1	-	1	23	33
Pennsylvania	-	-	10	-	-	-	2	1	11	22	17
EAST NORTH CENTRAL	11	-	795	-	2	3	3	-	11	104	143
Ohio	1	-	116	-	1	-	-	-	-	23	9
Indiana	-	-	54	-	-	1	-	-	1	6	1
Illinois	-	-	---	---	1	---	1	---	---	---	52
Michigan	10	-	235	-	-	2	1	-	10	73	78
Wisconsin	-	-	390	-	-	-	1	-	-	2	3
WEST NORTH CENTRAL	8	2	226	-	7	3	12	-	2	20	47
Minnesota	-	-	64	-	-	-	5	-	-	-	5
Iowa	-	2	152	-	-	-	7	-	1	3	6
Missouri	8	-	3	-	-	3	-	-	1	6	13
North Dakota	-	-	3	-	-	-	-	-	-	1	1
South Dakota	-	-	-	-	7	-	-	-	-	5	1
Nebraska	-	-	-	-	-	-	-	-	-	1	1
Kansas	-	-	4	-	-	-	-	-	-	4	20
SOUTH ATLANTIC	1	-	129	-	9	-	3	-	-	32	106
Delaware	---	---	---	---	---	---	---	---	---	---	2
Maryland	---	---	---	---	---	---	---	---	---	---	10
District of Columbia	-	-	1	-	-	-	-	-	-	1	1
Virginia	-	-	3	-	-	-	-	-	-	2	-
West Virginia*	1	-	122	-	-	-	-	-	-	3	3
North Carolina	-	-	NN	-	-	-	1	-	-	7	15
South Carolina	-	-	3	-	-	-	-	-	-	5	5
Georgia	-	-	-	-	2	-	-	-	-	14	35
Florida	-	-	-	-	7	-	2	-	-	-	35
EAST SOUTH CENTRAL	-	-	28	1	6	-	2	1	8	39	43
Kentucky	-	-	6	-	-	-	-	1	-	3	7
Tennessee	-	-	NN	-	-	-	-	-	5	27	26
Alabama	-	-	18	1	6	-	1	-	-	2	1
Mississippi	-	-	4	-	-	-	1	-	3	7	9
WEST SOUTH CENTRAL	1	-	3	-	19	-	1	-	3	19	56
Arkansas	-	-	-	-	-	-	-	-	-	4	8
Louisiana	-	-	NN	-	2	-	1	-	3	5	9
Oklahoma	1	-	3	-	-	-	-	-	-	10	17
Texas *	---	---	---	---	17	---	-	---	---	---	22
MOUNTAIN	1	-	71	1	51	1	2	-	15	90	49
Montana	-	-	41	-	-	-	-	-	-	6	7
Idaho	-	-	-	-	-	-	-	-	-	1	13
Wyoming	-	-	-	-	-	-	-	-	-	-	-
Colorado	1	-	11	-	-	1	2	-	3	34	5
New Mexico	-	-	19	-	27	-	-	-	12	26	5
Arizona *	-	-	-	1	24	-	-	-	-	19	17
Utah	---	---	---	---	---	---	---	---	---	---	2
Nevada	-	-	-	-	-	-	-	-	-	4	-
PACIFIC	11	-	132	3	117	1	1	-	64	152	171
Washington	1	-	114	3	105	-	-	-	9	12	6
Oregon	-	-	-	-	4	-	-	-	-	2	17
California	10	-	-	-	6	1	1	-	54	133	107
Alaska	-	-	14	-	2	-	-	-	-	3	35
Hawaii	-	-	4	-	-	-	-	-	1	2	6
Guam *	-	-	-	-	-	-	-	-	-	-	1
Puerto Rico	---	---	---	---	---	---	---	---	---	---	1
Virgin Islands	-	-	-	-	-	-	-	-	-	-	-

\* Delayed Reports:

Aseptic meningitis: Tex. 3  
 Brucellosis: Tex. 1  
 Chickenpox: Me. 12, N.H. 10, Tex. 153, Guam 1  
 Diphtheria: Ariz. delete 1

Encephalitis, primary: Tex. 1  
 Hepatitis B: Tex. 5  
 Hepatitis A: Me. 4, N.H. 1, W.Va. delete 1,  
 Tex. 76, Guam 3

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES  
FOR WEEKS ENDING DECEMBER 29, 1973 AND DECEMBER 30, 1972 (52nd WEEK) - Continued

AREA	MALARIA		MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		RUBELLA	
	1973	Cum. 1973	1973	Cumulative		1973	Cumulative		1973	Cum. 1973	1973	Cum. 1973
				1973	1972		1973	1972				
UNITED STATES .....	3	239	198	26,686	31,580	12	1,349	1,332	936	69,087	100	27,928
NEW ENGLAND .....	1	18	12	7,671	4,527	1	56	58	153	4,923	2	3,735
Maine*	-	-	-	71	257	-	2	4	3	521	-	74
New Hampshire*	-	-	8	1,043	885	-	7	4	4	300	-	385
Vermont	1	3	-	121	128	-	3	-	-	278	-	49
Massachusetts	-	7	1	3,970	1,190	1	16	25	40	1,317	2	2,092
Rhode Island	-	1	2	647	527	-	3	12	54	910	-	229
Connecticut	-	7	1	1,819	1,540	-	25	13	52	1,597	-	906
MIDDLE ATLANTIC .....	1	40	49	2,960	1,241	1	186	168	81	8,187	2	4,317
Upstate New York	1	20	4	827	224	-	65	40	NN	NN	1	480
New York City	-	4	2	953	447	-	36	46	13	4,761	-	499
New Jersey	-	5	34	771	500	1	50	33	5	1,684	-	3,028
Pennsylvania	-	11	9	409	70	-	35	49	63	1,742	1	310
EAST NORTH CENTRAL .....	-	31	78	9,241	12,492	4	186	195	318	17,652	50	6,543
Ohio	-	5	43	404	312	2	79	78	77	3,215	21	737
Indiana	-	3	-	713	1,372	1	7	14	30	1,786	3	1,018
Illinois	---	17	---	2,204	4,586	---	28	40	---	2,869	---	1,101
Michigan	-	6	19	4,552	2,353	1	54	55	147	5,042	17	2,001
Wisconsin	-	-	16	1,368	3,869	-	18	8	64	4,740	9	1,686
WEST NORTH CENTRAL .....	-	10	3	470	1,435	1	94	95	146	6,017	3	1,245
Minnesota	-	2	-	24	28	-	13	26	-	105	-	225
Iowa	-	1	2	283	1,050	-	22	6	135	3,877	-	208
Missouri	-	3	-	56	221	-	34	30	1	788	1	274
North Dakota	-	1	1	71	61	-	3	-	-	78	-	277
South Dakota	-	-	-	3	12	1	6	2	-	20	1	24
Nebraska	-	1	-	6	24	-	7	11	-	190	-	141
Kansas	-	2	-	27	39	-	9	20	10	959	1	96
SOUTH ATLANTIC .....	-	37	2	1,330	2,368	-	224	299	32	7,645	3	2,390
Delaware	---	-	---	10	56	---	2	2	---	285	---	16
Maryland	---	8	---	14	15	---	31	40	---	699	---	11
District of Columbia	-	2	1	9	2	-	5	14	1	164	-	4
Virginia	-	8	1	430	77	-	47	62	2	782	-	636
West Virginia	-	-	-	232	306	-	7	10	29	2,663	1	347
North Carolina	-	7	-	4	38	-	43	37	NN	NN	-	204
South Carolina	-	1	-	79	218	-	13	29	-	377	-	88
Georgia	-	3	-	154	212	-	23	23	-	32	2	15
Florida	-	8	-	398	1,444	-	53	82	-	2,643	-	1,069
EAST SOUTH CENTRAL .....	-	14	-	641	1,135	1	129	101	64	5,836	10	1,513
Kentucky	-	9	-	404	546	-	48	30	3	1,759	-	424
Tennessee	-	-	-	165	195	-	45	34	46	2,831	8	645
Alabama	-	5	-	14	154	-	19	20	14	758	1	210
Mississippi	-	-	-	58	240	1	17	17	1	488	1	234
WEST SOUTH CENTRAL .....	-	13	1	755	1,790	1	215	168	16	4,774	2	1,527
Arkansas	-	-	-	75	48	-	14	14	3	415	-	116
Louisiana	-	2	1	90	112	1	54	51	-	132	-	100
Oklahoma	-	2	-	66	12	-	35	15	13	506	2	184
Texas*	---	9	---	524	1,618	---	112	88	---	3,721	---	1,127
MOUNTAIN .....	-	9	40	1,113	1,972	-	39	32	34	2,855	10	2,467
Montana	-	1	21	358	18	-	10	6	2	315	-	531
Idaho	-	1	-	256	157	-	4	8	3	133	-	45
Wyoming	-	-	-	81	51	-	1	1	-	436	-	7
Colorado	-	2	1	112	540	-	11	6	11	616	-	1,570
New Mexico	-	2	18	154	139	-	3	3	13	1,044	1	213
Arizona	-	2	-	22	907	-	6	1	-	140	-	8
Utah	---	1	---	129	159	---	2	6	---	157	---	80
Nevada	-	-	-	1	1	-	2	1	5	14	9	13
PACIFIC .....	1	67	13	2,505	4,620	3	220	216	92	11,198	18	4,191
Washington	-	4	1	1,111	996	1	23	20	33	1,940	9	778
Oregon	-	4	-	461	205	-	17	14	6	2,110	-	828
California	1	56	12	848	3,308	1	168	170	48	5,935	9	2,538
Alaska	-	2	-	65	13	1	11	9	3	932	-	19
Hawaii	-	1	-	20	98	-	1	3	2	281	-	28
Guam*	-	-	-	52	17	-	1	13	-	40	-	14
Puerto Rico*	---	-	---	2,031	1,089	---	11	4	---	1,117	---	39
Virgin Islands	-	-	-	7	3	-	-	2	-	34	-	2

\* Delayed Reports:

Measles: Me. 1, N.H. 2, Tex. 1  
Meningococcal infections: Tex. 1Mumps: Me. 13, N.H. 30, Tex. 65, Guam 3, P.R. 175  
Rubella: Tex. 1



TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDING DECEMBER 29, 1973 AND DECEMBER 30, 1972 (52nd WEEK) - Continued

AREA	TETANUS	TUBERCULOSIS (New Active)		TULA-REMIA	TYPHOID FEVER		TYPHUS-FEVER TICK-BORNE (Rky. Mt. spotted fever)		VENEREAL DISEASES		RABIES IN ANIMALS	
	Cumulative 1973	1973	Cum. 1973	Cumulative 1973	1973	Cum. 1973	1973	Cum. 1973	GONOR-RHEA	SYPHILIS (Pri. & Sec.)	1973	Cum. 1973
		1973	1973		1973	1973	1973	1973				
UNITED STATES	88	338	30,937	157	9	628	-	635	11,158	241	26	3,285
NEW ENGLAND	2	14	1,168	-	1	22	-	4	381	2	1	118
Maine	-	-	107	-	-	-	-	-	11	-	1	65
New Hampshire	-	1	56	-	-	-	-	-	16	-	-	37
Vermont	-	-	30	-	-	-	-	-	6	-	-	3
Massachusetts	-	8	627	-	-	17	-	3	207	2	-	6
Rhode Island	1	2	92	-	-	-	-	-	10	-	-	1
Connecticut	1	3	256	-	1	5	-	1	131	-	-	6
MIDDLE ATLANTIC	7	71	5,951	-	-	66	-	38	1,726	88	-	54
Upstate New York	1	11	1,040	-	-	10	-	13	328	3	-	26
New York City	3	15	2,185	-	-	26	-	4	495	58	-	-
New Jersey	2	11	1,060	-	-	20	-	5	266	15	-	-
Pennsylvania	1	34	1,666	-	-	10	-	16	637	12	-	28
EAST NORTH CENTRAL	13	20	4,539	3	-	50	-	19	1,648	13	-	314
Ohio *	3	-	1,322	-	-	20	-	14	536	1	-	38
Indiana	4	7	589	-	-	1	-	-	198	1	-	53
Illinois	3	---	1,407	1	---	11	---	5	---	---	---	72
Michigan	1	13	1,144	2	-	14	-	-	637	8	-	11
Wisconsin	2	-	77	-	-	4	-	-	277	3	-	140
WEST NORTH CENTRAL	7	25	1,308	22	-	29	-	25	687	14	11	1,029
Minnesota	-	6	158	-	-	8	-	2	155	-	3	389
Iowa	-	1	128	-	-	-	-	7	335	2	1	206
Missouri	6	15	639	21	-	13	-	9	25	10	1	93
North Dakota	1	2	42	-	-	-	-	-	6	-	6	159
South Dakota	-	1	90	-	-	1	-	1	20	-	-	81
Nebraska	-	-	81	-	-	1	-	2	73	2	-	7
Kansas	-	-	170	1	-	6	-	4	73	-	-	94
SOUTH ATLANTIC	20	38	6,136	19	-	254	-	315	2,263	50	-	297
Delaware	-	---	97	-	---	1	---	8	---	---	---	5
Maryland	-	---	662	6	---	9	---	14	---	---	---	15
District of Columbia	-	-	301	-	-	1	-	-	286	6	-	-
Virginia	3	-	819	6	-	3	-	61	-	-	-	97
West Virginia *	1	4	311	-	-	12	-	4	41	-	-	24
North Carolina *	-	9	986	2	-	5	-	141	-	-	-	14
South Carolina	2	2	487	-	-	7	-	32	132	11	-	6
Georgia	3	23	987	3	-	3	-	54	784	9	-	94
Florida	11	-	1,486	2	-	213	-	1	1,020	24	-	42
EAST SOUTH CENTRAL	9	25	2,849	10	5	51	-	112	1,049	13	6	407
Kentucky	1	-	637	1	1	12	-	-	92	6	4	214
Tennessee	5	16	890	7	-	16	-	52	425	6	2	150
Alabama	3	-	795	-	4	14	-	28	390	1	-	42
Mississippi	-	9	527	2	-	9	-	32	142	-	-	1
WEST SOUTH CENTRAL	16	11	3,209	92	-	27	-	106	729	9	5	574
Arkansas	1	1	389	62	-	6	-	20	362	-	-	116
Louisiana *	4	6	459	1	-	6	-	-	299	8	1	52
Oklahoma	4	4	285	21	-	2	-	75	68	1	4	164
Texas*	7	---	2,076	8	---	13	---	11	---	---	---	242
MOUNTAIN	-	41	1,083	8	-	14	-	8	437	11	-	56
Montana	-	2	61	-	-	-	-	1	39	-	-	10
Idaho	-	-	32	1	-	1	-	2	50	-	-	-
Wyoming	-	2	34	2	-	1	-	1	23	-	-	-
Colorado	-	18	230	-	-	2	-	1	139	4	-	-
New Mexico	-	5	223	2	-	4	-	3	36	3	-	7
Arizona	-	12	385	-	-	6	-	-	100	-	-	36
Utah	-	---	54	2	---	-	---	-	---	---	---	3
Nevada	-	2	64	1	-	-	-	-	50	4	-	-
PACIFIC	14	93	4,694	3	3	115	-	8	2,238	41	3	436
Washington	3	8	364	1	-	7	-	5	218	-	-	9
Oregon	-	2	245	1	-	2	-	2	354	2	-	8
California	11	79	3,696	1	3	101	-	1	1,583	39	3	411
Alaska	-	-	105	-	-	4	-	-	47	-	-	8
Hawaii	-	4	284	-	-	1	-	-	36	-	-	-
Guam*	-	-	41	-	-	-	-	-	-	-	-	-
Puerto Rico	11	---	491	-	---	11	---	-	---	---	---	55
Virgin Islands	-	-	2	-	-	-	-	-	9	-	-	-

\* Delayed Reports:

Tetanus: Tex. 1  
 TB: Ohio delete 13, W.Va. delete 1, N.C. delete 1,  
 Tex. 44, Guam 2

Gonorrhea: La. delete 4, Tex. 1,521, Guam 11  
 Syphilis: Tex. 31  
 Rabies: Tex. 4

TABLE IV. DEATHS IN 121 UNITED STATES CITIES FOR WEEK ENDING DECEMBER 29, 1973

Week No.

52

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

Area	All Causes			Pneumonia and Influenza All Ages	Area	All Causes			Pneumonia and Influenza All Ages
	All Ages	65 years and over	Under 1 year			All Ages	65 years and over	Under 1 year	
<b>NEW ENGLAND</b>	773	495	21	45	<b>SOUTH ATLANTIC</b>	1,152	679	31	38
Boston, Mass.	232	135	11	11	Atlanta, Ga.	133	74	5	1
Bridgeport, Conn.	37	30	—	7	Baltimore, Md.	181	97	2	2
Cambridge, Mass.	36	21	—	3	Charlotte, N. C.	39	19	1	—
Fall River, Mass.	26	21	—	1	Jacksonville, Fla.	95	50	2	3
Hartford, Conn.	79	53	1	—	Miami, Fla.	119	66	9	3
Lowell, Mass.	41	28	2	7	Norfolk, Va.	40	25	1	3
Lynn, Mass.	25	19	1	—	Richmond, Va.	82	47	1	9
New Bedford, Mass.	35	24	—	1	Savannah, Ga.	23	11	1	1
New Haven, Conn.	54	26	2	2	St. Petersburg, Fla.	126	111	—	3
Providence, R. I.	56	34	1	7	Tampa, Fla.	79	46	5	10
Providence, R. I.	56	34	1	7	Washington, D. C.	186	102	3	3
Springfield, Mass.	39	27	—	1	Wilmington, Del.	49	31	1	—
Waterbury, Conn.	36	21	1	—	<b>EAST SOUTH CENTRAL</b>	464	267	16	16
Worcester, Mass.	67	47	2	5	Birmingham, Ala.	61	40	—	—
<b>MIDDLE ATLANTIC</b>	2,532	1,607	44	99	Chattanooga, Tenn.	58	27	4	1
Albany, N. Y.	69	47	2	3	Knoxville, Tenn.	29	20	—	2
Allentown, Pa.	38	27	—	5	Louisville, Ky.	90	52	6	6
Buffalo, N. Y.	134	78	3	6	Memphis, Tenn.	96	52	2	2
Camden, N. J.	50	28	1	—	Mobile, Ala.	30	20	1	—
Elizabeth, N. J.	32	21	—	1	Montgomery, Ala.	22	17	—	—
Erie, Pa.	49	32	—	4	Nashville, Tenn.	78	39	3	5
Jersey City, N. J.	48	34	—	3	<b>WEST SOUTH CENTRAL</b>	813	471	32	25
Newark, N. J.	81	41	4	1	Austin, Tex.	24	16	—	—
New York City, N. Y. *	1,271	810	19	45	Baton Rouge, La.	50	34	—	1
Paterson, N. J.	26	21	2	3	Corpus Christi, Tex.	24	13	5	—
Philadelphia, Pa.	200	126	2	4	Dallas, Tex.	99	47	4	—
Pittsburgh, Pa.	119	61	1	3	El Paso, Tex.	32	25	—	6
Reading, Pa.	41	29	1	2	Fort Worth, Tex.	62	39	2	2
Rochester, N. Y.	114	84	2	7	Houston, Tex.	180	102	8	—
Schenectady, N. Y.	40	31	—	—	Little Rock, Ark.	47	21	2	2
Scranton, Pa.	24	14	—	—	New Orleans, La.	124	77	3	2
Syracuse, N. Y.	78	46	5	2	San Antonio, Tex.	93	52	5	6
Trenton, N. J.	47	28	—	2	Shreveport, La.	31	20	—	3
Utica, N. Y.	25	18	1	4	Tulsa, Okla.	47	25	3	3
Yonkers, N. Y.	46	31	1	4	<b>MOUNTAIN</b>	449	255	10	16
<b>EAST NORTH CENTRAL</b>	2,387	1,392	94	71	Albuquerque, N. Mex.	24	11	—	1
Akron, Ohio	62	34	2	—	Colorado Springs, Colo.	35	22	—	8
Canton, Ohio	36	20	1	—	Denver, Colo.	90	48	3	4
Chicago, Ill.	699	383	26	14	Las Vegas, Nev.	23	12	—	—
Cincinnati, Ohio	146	100	5	5	Ogden, Utah	30	14	1	2
Cleveland, Ohio	155	102	6	6	Phoenix, Ariz.	118	65	3	1
Columbus, Ohio	129	76	8	3	Pueblo, Colo.	12	8	—	—
Dayton, Ohio	71	42	2	2	Salt Lake City, Utah	52	31	2	—
Detroit, Mich.	328	170	11	9	Tucson, Ariz.	65	44	1	—
Evansville, Ind.	33	25	—	1	<b>PACIFIC</b>	1,401	858	44	30
Fort Wayne, Ind.	48	27	2	5	Berkeley, Calif.	22	15	—	1
Gary, Ind.	37	16	2	5	Fresno, Calif.	42	22	3	—
Grand Rapids, Mich.	56	34	1	6	Glendale, Calif.	26	16	1	1
Indianapolis, Ind.	128	67	9	2	Honolulu, Hawaii	62	37	3	—
Madison, Wis.	30	16	—	3	Long Beach, Calif.	94	54	1	5
Milwaukee, Wis.	137	95	2	2	Los Angeles, Calif.	400	248	13	7
Peoria, Ill.	47	34	2	1	Oakland, Calif.	43	27	2	1
Rockford, Ill.	46	27	3	3	Pasadena, Calif.	22	14	—	—
South Bend, Ind.	24	15	4	1	Portland, Oreg.	135	90	4	2
Toledo, Ohio	110	67	5	2	Sacramento, Calif.	44	27	—	—
Youngstown, Ohio	65	42	3	1	San Diego, Calif.	109	64	4	2
<b>WEST NORTH CENTRAL</b>	671	426	27	15	San Francisco, Calif.	164	86	5	4
Des Moines, Iowa	36	26	1	1	San Jose, Calif.	54	36	4	4
Duluth, Minn.	23	18	1	1	Seattle, Wash.	112	74	1	—
Kansas City, Kans.	39	23	2	5	Spokane, Wash.	40	28	2	2
Kansas City, Mo.	119	75	7	—	Tacoma, Wash.	32	20	1	—
Lincoln, Nebr.	5	2	—	—	<b>Total</b>	10,642	6,450	319	355
Minneapolis, Minn.	82	49	4	1	<b>Expected Number</b>	13,016	7,745	466	490
Omaha, Nebr.	71	45	1	1	<b>Cumulative Total (includes reported corrections for previous weeks)</b>	658,058	387,478	24,635	25,658
St. Louis, Mo.	217	135	7	2					
St. Paul, Minn.	51	33	4	1					
Wichita, Kans.	28	20	—	3					

\* Estimate based on average percent of divisional total

## INDEX - VOLUME 22, 1973

Each issue (number) of Volume 22 of the Morbidity and Mortality Weekly Report contains the following pages, inclusive.

Issue	Pages	Issue	Pages	Issue	Pages	Issue	Pages	Issue	Pages	Issue	Pages
1	1-8	10	85-92	19	161-168	28	233-240	36	301-308	44	365-372
2	9-20	11	93-100	20	169-176	29	241-248	37	309-316	45	373-380
3	21-28	12	101-108	21	177-184	30	249-256	38	317-324	46	381-388
4	29-36	13	109-116	22	185-192	31	257-264	39	325-332	47	389-396
5	37-48	14	117-124	23	193-200	32	265-276	40	333-340	48	397-404
6	49-56	15	125-132	24	201-208	33	277-284	41	341-348	49	405-416
7	57-68	16	133-144	25	209-216	34	285-292	42	349-356	50	417-424
8	69-76	17	145-152	26	217-224	35	293-300	43	357-364	51/52	425-440
9	77-84	18	153-160	27	225-232						

**Abortion:** complications of, 159; induced by super coil method 159; in Pennsylvania 159; in the United States in 1971, 40

**African tick typhus:** in Rhode Island 349

**Anthrax:** orf misdiagnosed as, 108

**Aseptic meningitis:** in the United States in 1971, 291, 316

**Babesiosis:** mimicking Rocky Mountain spotted fever 331; in Massachusetts 331

**Bacillus cereus food poisoning:** associated with commercially prepared chicken pot pie 14, rice 348; in Wisconsin 14, the United States 348, the United Kingdom 348

**Bacteremia:** associated with commercially prepared serum albumin 265, 284; caused by *Pseudomonas spp.* 265, 284; in Maryland 265, 284. *See also* Septicemia

**Birth defects:** and chromosomal damage 365; and spray adhesives 365; in Georgia 365, Oklahoma 365

**Blastomycosis:** in Minnesota 70

**Botulism:** and childbirth 223; and prophylactic administration of antitoxin 255; associated with commercially canned mushrooms 57, 87, 115, 123, 241, 315, peppers 161, home-canned blackberries 418, chili sauce 425, green beans 350, salmon 240, 318, vegetables 71, 255; misdiagnosed as atypical Guillain-Barré syndrome 318; staphylococcal foodborne disease simulating, 315; type A 62, 218, 240, 317; type B 57, 62, 87, 115, 123, 161, 241, 350, 425; wound 395; in California 425, Colorado 395, Idaho 218, 240, Kentucky 350, 417, Maryland 255, Oklahoma 71, Oregon 218, Pennsylvania 161, Washington 317, West Virginia 161, the United States in 1971-1972, 62, in 1973, 57, 87, 115, 123, 315, Canada 241

**Boutonneuse fever:** in Rhode Island 349

**Brill-Zinsser disease:** in Nebraska 358, South Dakota 358, Virginia 22

**Brucellosis:** associated with Mexican cheese 193; in Colorado 193, Texas 193

**Bubonic plague:** in Arizona 249

**California encephalitis:** in Wisconsin 42

**Cholera:** associated with mussels 300; caused by Inaba serotype 293, 316; caused by Ogawa serotype 268, 273, 300, 316; changes in vaccination certificate requirements for Angola 200, Pakistan 232, Iran 356, the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192, 200, Saudi Arabia 356; list of infected areas as of September 1, 1973, 300; in Texas 293, 301, 315, Algeria 334, Germany 273, 316, Italy 300, 316, Mauritania 268, Mozambique 334, Niger 273, Sweden 268, Tunisia 268, the United Kingdom 268, Worldwide 1970-1973, 233

**Chromosomal damage:** and spray adhesives 365

**Clostridium perfringens gastroenteritis:** associated with beef stroganoff 8; laboratory tests, use of in outbreaks 8; in Washington 3, 20

**Contraceptives:** in the United States in 1971, 178

**Dengue:** in Florida 404, 416, Puerto Rico 60, 373, 404

**Diphtheria:** skin lesions in, 250; vaccine recommendations for, 380; in Navajos 341, 364, 379; in Arizona 341, 364, 379, New Mexico 341, 364, 379, Rhode Island 131, Washington 250

**Eastern equine encephalitis:** in California 275, Michigan 283, New Hampshire 283, 308

**Encephalitis:** California encephalitis 42; Eastern equine 275, 283, 308; St. Louis 141, 275; Venezuelan equine 126, 141, 275, 363; Western equine 141, 275; caused by herpesvirus B 333, monkey B virus 185, mumps 185; in California 141, 275, 333, Florida 275, Georgia 275, Louisiana 275, Michigan 283, Mississippi 275, New Hampshire 283, 308, North Carolina 275, South Carolina 275, Virginia 275, Wisconsin 42, the United States in 1972, 126, 275, Ecuador 363, Mexico in 1972, 126, Peru 363

**Escherichia coli gastroenteritis:** in Arizona 225

**Family planning services:** in the United States in 1971, 178

- Gastroenteritis:** in campers 323, infants 225; in Arizona 225, Maryland 323. *See also Bacillus cereus* food poisoning, *Clostridium perfringens* gastroenteritis, *Escherichia coli* gastroenteritis, Salmonellosis, Shigellosis, Staphylococcal foodborne disease, *Vibrio parahaemolyticus* gastroenteritis
- German measles.** *See* Rubella
- Gonorrhea:** in the United States in July – December 1972, 63, 146; in July 1972 – March 1973, 239; in June 1972 – June 1973, 339
- Hepatitis:** associated with earpiercing 390, 404, 416, shellfish 372, 388, siamangs 407, tossed salad 86, water 118, 283; changes in vaccination certificate requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192; type A 86, 118, 283, 372, 388, 390, 404, 407, 416; type B 294, 390, 404, 416; in Alabama 118, 388, Florida 388, Georgia 372, 388, Louisiana 372, 388, Maryland 294, Ohio 86, 407, Tennessee 388, Texas 372, 388, Washington 390, 404, 416, Turkey 283
- Hexachlorophene:** and vacuolation of reticular formation 93; recommended use of, 94
- Histoplasmosis:** associated with bat caves 125; in Florida 125
- Hookworm disease:** in Alabama 86
- Influenza:** isolation of new A strains 403; isolation of new B strains 175; laboratory surveillance, results of, 2, 31, 51; mortality due to pneumonia-influenza compared with mortality due to all causes, chart of, 12, 39, 136; pneumonia-influenza deaths, chart of, 11, 23, 38, 61, 135, 415; recommended vaccine use 207; type A 2, 9, 10, 22, 31, 32, 37, 40, 50, 51, 84, 134, 191, 207, 273, 379, 396, 403, 414, 423, 426; type B 2, 31, 50, 51, 84, 134, 175, 191, 207, 273, 292, 379, 382, 414, 423, 426; in Alabama 31, Alaska 31, California 2, 40, 50, 426, Connecticut 50, Georgia 9, 426, Hawaii 51, Illinois 2, Louisiana 10, Massachusetts 31, North Dakota 51, Ohio 40, Oklahoma 51, Oregon 51, Pennsylvania 40, South Carolina 31, South Dakota 51, Utah 31, Virginia 10, Washington 10, 84, Wyoming 31, the United States 22, 60, 134, 414, 426, Africa 423, Argentina 191, Australia 273, 379, Canada 37, 396, 426, France 9, 37, 134, Germany 37, 134, Holland 134, Hungary 37, Japan 273, Kenya 273, New Zealand 403, 423, Switzerland 37, Thailand 423, the United Kingdom 9, 134, 292, 379, 382, 423, the USSR 9, 134, Worldwide 84, 134
- Intractable diarrhea of infancy:** in Arizona 225
- Lassa fever:** associated with *Mastomys natalensis* 202, in Sierra Leone 201
- Lead Absorption:** associated with smelting 405; in Texas 405
- Leptospirosis:** Jarisch-Herxheimer reaction in, 50; types of animals implicated in, 43; in California 49, the United States in 1971, 43
- Malaria:** associated with travel to Kenya 299, Nigeria 250, Surinam 357, Zaire 299; of cryptic etiology 276; caused by *Plasmodium falciparum* 250, 276, 299, 357; chloroquine resistance in, 357; delay in diagnosis of, 299; in California 250, Georgia 299, Massachusetts 299, New York 276, 357, North Carolina 276
- Measles:** AMA resolution on, 318; in colleges 183; in Maryland 318, Montana 413, Tennessee 50, Virginia 183, the United States in the last 12 weeks of 1972, 2; the first 4 weeks of 1973, 42, 51; the first 8 weeks of 1973, 79; the first 16 weeks of 1973, 146; the first 24 weeks of 1973, 215; the first 36 weeks of 1973, 310
- Meningococcal disease:** carrier state, treatment of, 59; serogroups implicated 59; in the United States 58, Canada 58
- Metal poisoning:** caused by lead 405
- Mumps:** vaccine efficacy in, 186; in New York 185
- Mushrooms:** and botulism 57, 87, 115, 123, 241, 315; warehouse inspection of, 324
- Orf:** erythema multiforme following, 108; misdiagnosed as anthrax 108; in California 108
- Paralytic disease:** of unknown etiology 144; in Puerto Rico 143
- Plague:** bubonic 249; in Arizona 249, New Mexico 266, Texas 266, the United States 216
- Poliomyelitis:** changes in vaccination certificate requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192; paralytic disease resembling, 143; in the United States in 1971, 123
- Psittacosis:** in the United States in 1971, 15; in 1972, 355
- Psychosomatic illness:** in Alabama 257
- Quarantine measures:** changes in cholera vaccination certificate requirements for Angola 200, Iran 356, Pakistan 232, the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192, 200, Saudi Arabia 356; changes in hepatitis vaccination certificate requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192; changes in poliomyelitis vaccination certificate requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192; changes in smallpox vaccination certificate requirements for Egypt 356, New Caledonia 168, the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192, 200; changes in typhoid fever vaccination certificate requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192; changes in yellow fever vaccination certificate requirements for New Caledonia 168, the Ryukyu

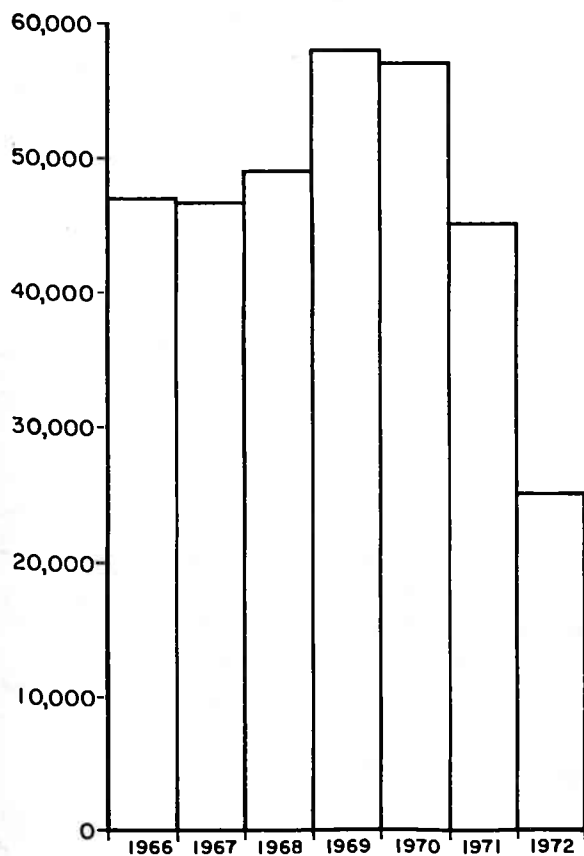
- Islands** 192; changes in yellow fever vaccination centers in California 51, 208, 339, Colorado 20, Florida 208, Georgia 51, Hawaii 76, Illinois 340, Iowa 340, Louisiana 340, 416, Michigan 340, Missouri 208, 340, New Jersey 208, New Mexico 208, New York 20, 76, 340, Ohio 20, 76, 208, 340, Oklahoma 76, 340, Pennsylvania 20, 340, Tennessee 208, 340, Texas 340, Virginia 340, 416, West Virginia 51, Wisconsin 208; modified guidelines for incoming vessels 223
- Rabies:** animal 13, 186, 209, 267; human 325; licensure of killed virus vaccine for, 186; use of non-avian vaccine in, 267; in Delaware 13, Florida 209, Kansas 209, Kentucky 325, Tennessee 267, Virginia 13, United States 186
- Recommendations of the Advisory Committee on Immunization Practices:** on influenza 207
- Recrudescence typhus fever:** in Nebraska 358, South Dakota 358, Virginia 28
- Red tide:** organisms responsible for, 398; in Florida 397
- Relapsing fever:** associated with travel to the Grand Canyon 242, 256, 264, 268; diagnosis of, 247; spirochetes causing, 247; ticks implicated as transmitting, 247; in Arizona 242, 256, 264, 268, California 268, Georgia 242, Minnesota 268, Oregon 256, Utah 256
- Rickettsial disease:** in Nebraska 358, South Dakota 358
- Ringworm (epidemic):** associated with cats 32; in Nebraska 31
- Rocky Mountain spotted fever:** associated with ticks 358; babesiosis resembling, 331; recommended treatment for, 191; typhus misdiagnosed as, 358; in Nebraska 358, the United States 363, in 1972, 191
- Rubella:** vaccination and pregnancy 145; recommendations for vaccinating pregnant women against, 146; in colleges 110, 169, 398; in Colorado 110, Massachusetts 107, Mississippi 110, New York 398, North Carolina 110, Oklahoma 169, Tennessee 110, Virginia 110, the United States in 1972 and the first 26 weeks of 1973, 439
- St. Louis encephalitis:** in California 141, 275
- Salmonellosis:** associated with barbecued beef 278, barbecued brisket 13, beans 13, beef in gravy 408, chicken dressing 347, potato salad 347, roast beef sandwiches 302, fishmeal 31, head cheese 43, meat from delicatessens 154, poultry 30, 199, 278, 347, turtles 118, 210; caused by *Salmonella agona* 29, 43, 277, 342, *S. anatum* 43, *S. blockley* 408, *S. braenderup* 210, *S. chester* 302, *S. infantis* 342, *S. litchfield* 210, *S. newport* 13, 210, *S. schwarzengrund* 342, *S. virchow* 153, 199; certification of pet turtles as free from, 118, 210; distinguishing serotypes in, 154; in Arkansas 29, 277, California 210, Illinois 408, Maryland 153, Massachusetts 302, Minnesota 342, New Jersey 43, 118, Oregon 210, Tennessee 210, Texas 13, England 199, Wales 199. *See also* Typhoid fever
- Scombroid fish poisoning:** associated with tuna fish 69, 78, 264, smoked albacore 14; types of bacteria demonstrated in, 14; types of fish incriminated in, 14, 70; treatment of, 70; in California 14, Mississippi 263, the United States 69, 78
- Septicemia:** associated with commercially prepared intravenous fluid 99, 115, 124; caused by *Citrobacter freundii* 99, 115, 124, *Enterobacter agglomerans* 99, 115, 124, *E. cloacae* 99, 115, 124; control measures in, 116; laboratory identification of organisms implicated in, 99; in Ohio 99, 115, Tennessee 115, 124, Washington, D.C. 115, Wisconsin 99, 115, the United States 99, 115, 124. *See also* Bacteremia
- Serum albumin:** associated with bacteremia 265, 284
- Shellfish poisoning:** associated with clams 397; related to red tide 398; in Florida 397, 416
- Shiga dysentery:** in California 202, 366, 396, Colorado 101
- Shigellosis:** ampicillin resistance in, 70, 302; chloramphenicol resistance in, 202; sulfathiazole resistance in, 389; associated with travelers to Mexico 101, 202, 366; tuna salad 79; water 21, 217, 389; on a Caribbean cruise ship 217; caused by Shiga's bacillus 101, 202, 366, 396, *Shigella dysenteriae* 101, 202, 366, 396, *S. flexneri* 217, *S. sonnei* 21, 70, 79, 302; in California 202, 366, 396, Colorado 101, Iowa 21, Kentucky 70, Minnesota 302, Pennsylvania 389, Texas 79, the United States July–December 1972, 168
- Smallpox:** laboratory-acquired 117, 162; changes in vaccination recommendations for Egypt 356, New Caledonia 168, the People's Republic of China 192, the Republic of China (Taiwan) 192, the Ryukyu Islands 192, 200; in Bangladesh 71, 162, 192, 334, 387, Ethiopia 71, 192, 334, 387, India 71, 162, 192, 334, Japan 117, Nepal 71, 162, Pakistan 71, 162, 334, 387, Sudan 71, the United Kingdom 117, 162
- South African tick-bite fever:** in Rhode Island 349
- Spray adhesives:** and birth defects 365
- Staphylococcal foodborne disease:** associated with custard dessert 381, ham 381, macaroni salad 286, potato salad 141; caused by *Staphylococcus aureus* 381, type C enterotoxin 286; laboratory confirmation of, 141; simulating botulism 315; in airline passengers 381; in California 315, New York 381, Pennsylvania 381, Tennessee 141, 285, Puerto Rico 381
- Super coils:** and abortion complications 159
- Syphilis:** cluster procedure in investigating, 178; use of FTA-ABS test in diagnosing, 102, 176, 200; in Florida 177, West Virginia 133, the United States in December 1972, 15; in January 1973, 56; in February 1973, 87; in March 1973, 143; in April 1973, 170; in June 1973, 248; in July 1973, 307; in August 1973, 331; in September 1973, 371; in October 1973, 403; in November 1973, 423

- Tick paralysis:** caused by *Dermacentor variabilis*, 263; in Mississippi 263, Oklahoma 263, Virginia 263
- Trichinosis:** associated with commercially prepared Polish sausage 142, pork chops 286; home prepared hamburger 142, home prepared pork sausage 142, 199, raw hamburger 307; hypersensitivity angitis in, 307; wildlife transmission of, 199; in Maryland 307, Nebraska 194, Ohio 286, Vermont 142, the United States in 1972, 387
- Tuberculosis:** associated with pet monkeys 151; household contacts, treatment of, 2; misdiagnosed as histoplasmosis 1; peritonitis in, 2; in Arizona 191, California 309, Maine 223, North Dakota 109, Tennessee 1, Washington 151, the United States in 1972, 273
- Tularemia:** associated with rabbits 267; cavitory lesion in, 267; in Missouri 266, Oklahoma 266
- Turtles:** associated with salmonellosis 118, 210; certification of, 118, 210, in California 210, New Jersey 118, Oregon 210, Tennessee 210
- Typhoid fever:** associated with typhoid carrier 167, 268; caused by Mexican strains 159, 183; in a migrant labor camp 77, 85, 92, 115, 124; chloramphenicol-ampicillin resistance in, 159, 183, 350; recommendations for preventing, 159, 208; treatment of ampicillin-chloramphenicol resistant, 184; changes in vaccination requirements for the People's Republic of China 192, the Republic of China (Taiwan) 192; in Alabama 167, California 183, 239, Florida 77, 85, 92, 115, 124, Maryland 268, Mexico 159, 350
- Typhus:** African tick 349; murine 358; recrudescence 28, 358; associated with travel to Texas 358; misdiagnosed as Rocky Mountain spotted fever 358; in Nebraska 358, Rhode Island 349, South Dakota 358, Virginia 22
- Typhus exanthematicus:** preceding Brill-Zinsser disease 28
- Vacuolation of reticular formation:** associated with hexachlorophene 93; in Washington 93
- Varicella zoster:** and U. S. zoster immune globulin program 62, 142; use of zoster immune globulin in, 142
- Venezuelan equine encephalitis:** in California 141, 275, the United States 126, Ecuador 363, Mexico 126, Peru 363
- Vibrio parahaemolyticus gastroenteritis:** associated with conch meat 418; in California 418, the United States in 1969-1972, 231
- Western equine encephalitis:** in California 141, 275
- Winter vomiting disease:** in Maryland 323
- Yellow fever:** and *Aedes aegypti* eradication program 326; changes in vaccination centers in California 51, 208, 339, Colorado 20, Florida 208, Georgia 51, Hawaii 76, Illinois 340, Iowa 340, Louisiana 340, 416, Michigan 340, Missouri 208, 340, New Jersey 208, New Mexico 208, New York 20, 76, 340, Ohio 20, 76, 208, 340, Oklahoma 76, 340, Pennsylvania 20, 340, Tennessee 208, 340, Texas 340, Virginia 340, 416, West Virginia 51, Wisconsin 208; changes in the vaccination requirements for New Caledonia 168, the Ryukyu Islands 192; in Africa 326, the Americas 326
- Zoster immune globulin:** use in the United States 62, 142; list of regional consultants for, 63

**SURVEILLANCE SUMMARY**  
**RUBELLA – United States, 1972 and the First 26 Weeks of 1973**

In 1972, a total of 25,507 cases of rubella were reported in the United States, a decline of 43% from the 45,086 cases reported in 1971 and 50% below the average number of cases reported in each of the years 1967-1971. Rubella incidence has decreased steadily from 1969, when rubella vaccine was first licensed, through 1972 (Figure 1).

**Figure 1**  
**REPORTED CASES OF RUBELLA**  
**UNITED STATES, 1966-1972**



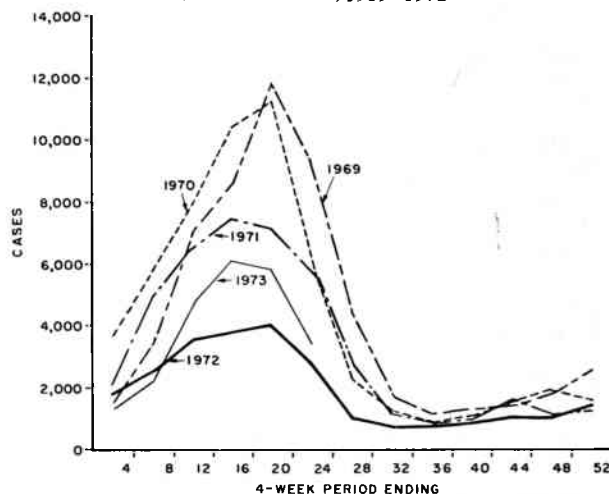
In the first 26 weeks of 1973, rubella activity increased 29% (24,754 cases reported nationwide) over the same period in 1972 (19,132 cases). Thirty-two states experienced increases in rubella cases during the first half of 1973; many of these states reported outbreaks among unvaccinated high school and college populations (MMWR, Vol. 22, Nos. 12, 13, 20, 48).

The seasonal pattern of rubella remains unchanged, with incidence increasing in January, reaching a peak by April or May, and dropping to a low level by August (Figure 2).

In 1969, a study of the age-specific incidence of rubella in Illinois (exclusive of Chicago), Chicago, Massachusetts, and New York City for the 5-year interval 1963-1967 showed that 56.6% of reported rubella cases occurred in children under 10 years of age (1). Over 92% of the cases occurred before the age at which most adolescents have finished high school.

Data on age-specific rubella incidence was collected from these same 4 areas for the period 1969-1972. In each area the percentage of children in the 1- to 9-year age group

**Figure 2**  
**REPORTED CASES OF RUBELLA, BY 4-WEEK PERIODS**  
**UNITED STATES, 1969-1972**



who had received rubella vaccine was at least as great as the nationwide percentage of children 1-9 years who had received vaccine (54%): Massachusetts 79%, Chicago 71%, Illinois (exclusive of Chicago) 57%, and New York City 54%. The rubella incidence in 1969-1972 in these 4 areas averaged 12.8% less per year than the incidence reported in the period 1963-1967. The decrease in incidence was similar for each age group, ranging from 6% to 14% of the 1963-1967 incidence.

In 1972, 33 cases of congenital rubella syndrome were reported to CDC, 50% fewer than the cases reported in each of the 2 preceding years. In the first 26 weeks of 1973, 15 cases were reported, 5 fewer than at the same time in 1972. Only 24 states have reported cases of congenital rubella syndrome in the past 4 years.

Through December 31, 1972, more than 45.8 million doses of rubella vaccine had been distributed in the United States since its licensure in 1969. Over 8 million doses were sold by the manufacturers in both 1971 and 1972, fewer than the 29 million doses distributed in the 1969-1970 period, but sufficient to increase immunization levels in the 1-12 year age group. A large proportion of the vaccine, 30.5 million doses, has been administered in publicly funded programs, with 5.3 million doses given through these programs in 1972. (Reported by the Perinatal Virology Unit, Bureau of Laboratories, and the Investigations and Evaluations Section, Field Services Branch, Bureau of Epidemiology, CDC.)

**Reference**

1. Witte JJ, Karchmer AW, Case G, et al: Epidemiology of rubella. *Amer J Dis Child* 118:107-111, 1969

A copy of the original report from which these data were derived is available on request from

Center for Disease Control  
Attention: Chief, Investigations & Evaluations Section  
Field Services Branch  
Atlanta, Georgia 30333

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

DISEASE	52nd WEEK ENDING		MEDIAN 1968-1972	CUMULATIVE, FIRST 52 WEEKS		
	December 29, 1973	December 30, 1972		1973	1972	MEDIAN 1968-1972
Aseptic meningitis . . . . .	36	67	77	4,646	4,281	4,374
Brucellosis . . . . .	2	10	7	178	193	218
Chickenpox . . . . .	1,732	3,188	---	161,903	140,627	---
Diphtheria . . . . .	5	6	6	214	125	214
Encephalitis, primary:						
Arthropod-borne and unspecified . . . . .	10	27	26	1,496	1,135	1,455
Encephalitis, post-infectious . . . . .	2	6	6	269	280	328
Hepatitis, serum (Hepatitis B) . . . . .	121	125	125	8,078	8,837	7,347
Hepatitis, infectious (Hepatitis A) . . . . .	578	762	762	51,523	54,442	54,442
Malaria . . . . .	3	5	52	239	811	2,853
Measles (rubeola) . . . . .	198	521	365	26,686	31,580	31,580
Meningococcal infections, total . . . . .	12	19	32	1,349	1,332	2,491
Civilian . . . . .	12	19	32	1,323	1,284	2,166
Military . . . . .	—	—	—	26	48	223
Mumps . . . . .	936	1,092	1,491	69,087	71,337	102,195
Rubella (German measles) . . . . .	100	245	281	27,928	25,169	48,446
Tetanus . . . . .	—	5	3	88	122	138
Tuberculosis, new active . . . . .	338	772	---	30,937	33,901	---
Tularemia . . . . .	—	3	2	157	147	164
Typhoid fever . . . . .	9	5	5	628	380	380
Typhus, tick-borne (Rky. Mt. spotted fever) . . . . .	—	7	2	635	528	405
Venereal Diseases:						
Gonorrhea . . . . .	11,158	12,508	---	823,380	756,804	---
Syphilis, primary and secondary . . . . .	241	469	---	25,122	25,740	---
Rabies in animals . . . . .	26	75	63	3,285	3,985	3,363

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax: . . . . .	1	Poliomyelitis, total: . . . . .	7
Botulism: . . . . .	32	Paralytic: . . . . .	5
Congenital rubella syndrome: Colo. 2, Kans. 7 . . . . .	47	Psittacosis: Calif. 1 . . . . .	26
Leprosy: * Calif. 1 . . . . .	135	Rabies in man: . . . . .	1
Leptospirosis: Colo. 1 . . . . .	39	Trichinosis: Pa. 2 . . . . .	79
Plague: . . . . .	2	Typhus, murine: . . . . .	31

\*Delayed reports: Leprosy: Tex. 2

The Morbidity and Mortality Weekly Report, circulation 36,000, is published by the Center for Disease Control, Atlanta, Ga.

Director, Center for Disease Control  
 Director, Bureau of Epidemiology, CDC  
 Editor, MMWR  
 Managing Editor, MMWR

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

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  
 Morbidity and Mortality Weekly Report  
 Atlanta, Georgia 30333

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.

DHEW Publication No. (CDC) 74-8017

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
 PUBLIC HEALTH SERVICE  
 CENTER FOR DISEASE CONTROL  
 ATLANTA, GEORGIA 30333

POSTAGE AND FEES PAID  
 U.S. DEPARTMENT OF HEW  
 HEW 399



OFFICIAL BUSINESS

3-G-19-08  
 Mrs Mary F Jackson, Library  
 Center for Disease Control