



Morbidity and Mortality

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

DATE OF RELEASE: FEBRUARY 19, 1971 - ATLANTA, GEORGIA 30333

EPIDEMIOLOGIC NOTES AND REPORTS PET TURTLE-ASSOCIATED SALMONELLOSIS Connecticut

From June through October 1970, 259 isolations of salmonellae from human sources were reported to the Division of Laboratory Services, Connecticut State Department of Health. To determine possible sources of infection, the State conducted a survey of those infected families (117) who could be contacted by telephone and in which one or more family members submitted stools that were positive for salmonella serotypes other than *Salmonella typhi-murium*. (Families infected with this serotype had been eliminated from the survey because of the common occurrence of this strain.) A total of 66 families (87 patients) could be contacted, and information was obtained from them regarding clinical course, food exposure, and association with animals.

Seventeen of the 66 families (26 percent) reported that they had had pet red-eared turtles (*Pseudemys scripta-*

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elegans) in their homes at the time of their illness. Included in these 17 families were 26 of the 87 patients (30 percent) who had submitted stools positive for salmonellae. Two other cases of salmonellosis which had not been previously reported were also discovered. Analysis of the data on the 28 patients showed no sex predilection, although 22 patients (79 percent) were less than 5 years old. Twenty-six patients were symptomatic, while two remained asymptomatic. Eight

(Continued on page 46)

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

DISEASE	6th WEEK ENDED		MEDIAN 1966 - 1970	CUMULATIVE, FIRST 6 WEEKS		
	February 13, 1971	February 14, 1970		1971	1970	MEDIAN 1966 - 1970
Aseptic meningitis	40	22	26	354	183	158
Brucellosis	1	-	-	7	11	11
Diphtheria	2	16	5	22	46	16
Encephalitis, primary:						
Arthropod-borne & unspecified	14	11	23	119	120	121
Encephalitis, post-infectious	10	8	11	42	42	50
Hepatitis, serum	152	128	72	1,041	736	393
Hepatitis, infectious	1,210	1,068	859	7,530	6,466	4,747
Malaria	78	102	39	430	370	243
Measles (rubeola)	2,197	1,017	1,017	8,415	5,491	5,491
Meningococcal infections, total	48	84	84	328	394	439
Civilian	41	82	82	305	377	387
Military	7	2	3	23	17	24
Mumps	3,107	2,502	-	18,325	14,613	-
Poliomyelitis, total	-	-	-	1	-	-
Paralytic	-	-	-	-	-	-
Rubella (German measles)	917	1,454	1,030	4,076	6,170	3,930
Tetanus	5	-	2	11	5	10
Tularemia	2	3	3	15	9	12
Typhoid fever	4	6	4	33	33	28
Typhus, tick-borne (Rky. Mt. spotted fever)	1	-	-	3	-	3
Rabies in animals	63	59	85	413	319	434

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	-	Psittacosis: Calif.-1	5
Botulism:	-	Rabies in Man:	-
Leptosy: Calif.-1, Hawaii-1	17	Rubella congenital syndrome:	5
Leptospirosis:	3	Trichinosis: Ala.-1, Conn.-1, N.J.-4	14
Plague:	-	Typhus, murine:	-

SALMONELLOSIS - (Continued from front page)

were hospitalized, with a mean duration of 11.2 days. The salmonella serotypes isolated in these pet turtle-associated home outbreaks were *S. saint-paul* (5 families), *S. litchfield* (3 families), *S. java* and *S. oranienburg* (2 families each), and *S. enteritidis*, *S. heidelberg*, *S. panama*, *S. poona*, and *S. urbana* (1 family each).

The same salmonella serotypes that caused the human illnesses were cultured from turtle water in five of the 17 turtle-associated home outbreaks. Of the remaining 12 homes, three had turtles with specimens positive for other salmonella serotypes, and nine no longer had the turtles. The onset of illness in six of these 12 homes followed acquisition of a pet turtle by 2 weeks or less. A total of 11 out of 17 home outbreaks could be epidemiologically associated with pet turtles.

The turtles associated with three of the five home outbreaks of *S. saint-paul* came from the same farm in Louisiana, although through two distributors and three retailers. The turtles associated with the two *S. oranienburg* outbreaks came from the same source in Mississippi, through two distributors and two stores in different states. A distrib-

utor in Florida was the source of the turtles associated with the three *S. litchfield* outbreaks; retailers in two states were also involved. Finally, the turtles associated with the two outbreaks of *S. java* came through two retailers from the same farm in Louisiana.

A bacteriologic survey was conducted of turtle tank water from the 18 stores retailing pet turtles in Bridgeport, Bristol, and Meriden, Connecticut. Salmonellae were found in the water specimens from all stores.

(Reported by Thomas Armentano, R.S., Head Sanitarian, Meriden City Health Department; Arthur Bruce, M.S., and John Redys, M.S., Microbiologists, Division of Laboratory Services, James C. Hart, M.D., Director, Division of Preventable Diseases, Connecticut State Department of Health; and an EIS Officer.)

Editorial Note:

Turtle-associated salmonellosis may be a more important problem than has previously been recognized. Additional studies are needed to determine its extent in other States.

MEASLES - Texarkana, Texas and Arkansas

Between June 1970 and January 1971, 637 cases of measles were reported in Texarkana, a city of 50,000 divided by the Texas-Arkansas state line. Small clusters of cases were first reported in the summer among preschool children attending nurseries and day-care centers. A sharp increase in the number of cases was reported in mid-September, approximately 3 weeks after the opening of schools. (Figure 1). Peak incidence occurred in the weeks beginning October 11 and 25. The number of cases

started to decline after October 25, with a sharp decline after the vaccination campaigns in mid-November.

A total of 621 cases (97.5 percent) occurred in Texarkana (Bowie County), Texas, which had never had a community immunization campaign against measles. Based on the physicians' and health departments' records, the level of prior immunity against measles in the 13,538 children aged 1-10 in Bowie County was approximately 72 percent. Sixteen cases occurred in Texarkana

Figure 1
MEASLES CASES, BY WEEK OF ONSET
TEXARKANA, TEXAS AND ARKANSAS
JUNE 28, 1970-JAN. 29, 1971

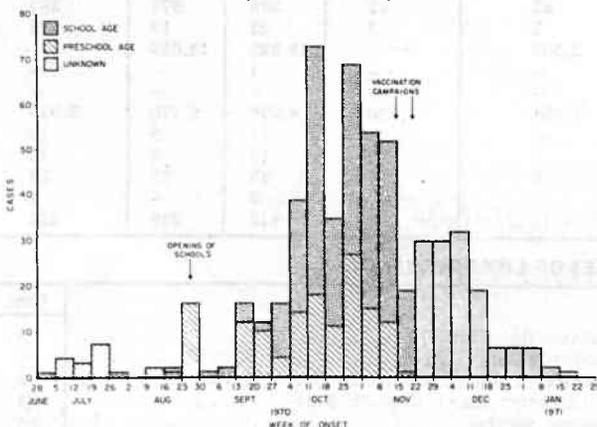
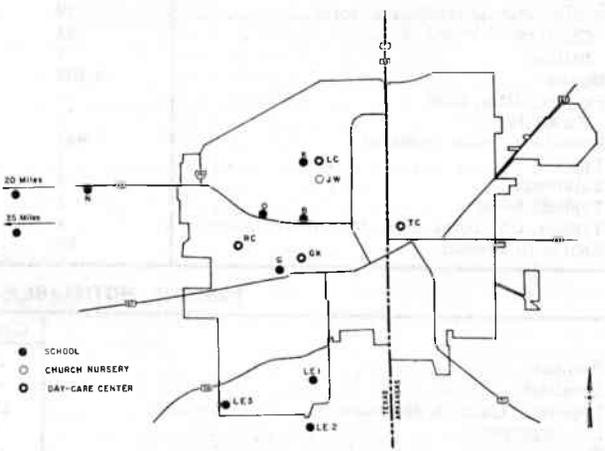


Figure 2
SCHOOLS, CHURCH NURSERIES, AND DAY-CARE CENTERS
REPORTING MEASLES OUTBREAKS
TEXARKANA, TEXAS AND ARKANSAS
JUNE 1970-JANUARY 1971



(Miller County), Arkansas, which had had extensive community immunization campaigns. The level of prior immunity in the 7,374 children aged 1-10 in Miller County approached 100 percent. Cases tended to occur in clusters in schools, day-care centers, and church nurseries; 14 of 15 such clusters were located in Bowie County (Figure 2). There is considerable cross-exposure between persons of all ages on both sides of town: 12 of the 16 measles patients in Miller County had had definite exposure to patients in Bowie County.

Twenty-seven cases occurred in previously vaccinated children. Of these 27, seven had been inoculated before 1 year of age, and eight had been inoculated at a day-care center where the vaccine was allowed to warm before use. Vaccine efficacy was calculated at 99 percent.

In urban Texarkana (Bowie County), 195 (73 percent) of 268 cases occurred in preschool children (Table 1). Common nurseries and day-care centers were responsible for much of this spread. Of 225 cases in suburban and rural areas of Bowie County, however, 178 (79 percent) occurred in school-aged children.

(Reported by the Staff of the Texarkana (Bowie County) Health Department; the Staff of the Miller County Health Department; J. T. Herron, M.D., State Health Officer, Arkansas State Board of Health; M. S. Dickerson, M.D., Chief, Communicable Disease Services, J. R. Bailes, M.D., Regional Health Director, Texas State Department of Health; and an EIS Officer.)

Table 1
Age and Geographic Distribution of Measles Cases,
Bowie County, Texas, June 1970-January 1971

Age (yrs.)	Urban Texarkana		Suburban and Rural Bowie County	
	Number	Percent	Number	Percent
0-4	195	73	47	21
5-11	73	27	178	79
Total	268	100	225	100

Editorial Note:

In the first 5 weeks of 1971, a total of 6,023 cases of measles were reported in the United States, compared with 4,474 cases for the same period in 1970, and 1,549 in 1969. In several instances, including the present one, the outbreaks which are responsible for this increase have initially been attributed to measles vaccine failure (MMWR, Vol. 20, No. 4). However, a more thorough examination of each outbreak has indicated inadequate vaccine distribution as the critical factor. The present outbreak, with one segment of the population having received vaccine, demonstrates that prior distribution and widespread utilization of measles vaccine prevents spread of the disease.

Vaccine efficacy was determined by calculating measles attack rates in immunized and unimmunized children aged 1-10. Then vaccine efficacy (%) equals $\frac{U-I}{U} \times 100$. U = attack rate in unimmunized population; I = attack rate in immunized population.

INDUCED MALARIA - California

Between mid-November and mid-December 1970, six cases of malaria due to *Plasmodium vivax* were diagnosed in male residents of a coastal agricultural valley in Ventura County, California. The men's ages range from 20 to 35 years. Four of the patients had never traveled outside the United States; the other two had returned from Vietnam in July 1970, where they had been treated for malaria. One of these veterans was later treated for vivax malaria at a local hospital on Dec. 7, 1970. The other veteran reportedly had had five attacks of malaria in the 6-month-period prior to his return from Vietnam. He had also had several attacks after returning home and had treated himself with quinine and Dapsone. In spite of this medication, parasites of *P. vivax* were still present in December 1970.

The six men live in or near a town of 500 persons. Four of them admitted to the use of intravenous drugs, particularly heroin, and they named the other two patients as co-users. Syringes and needles were shared, often without intermediate cleansing, by two or more men at a time. The Vietnam veteran with recurring malaria-like symptoms was almost always present when the drugs were used.

Thick smears and sera for testing with the indirect fluorescent antibody test for malaria were obtained from household contacts of the patients; the results were negative.

Six other cases of malaria were reported from Ventura County in 1970. All were in veterans who had recently returned from Vietnam and could not be related to this outbreak. No other induced cases of malaria have been reported in California since November.

(Reported by Mrs. Sherrie S. Ensor, R.N., Mrs. Marjorie A. Lenhart, R.N., Public Health Nurses; Terrance D. Gilday, R.S., Robert J. Boese, M.D., Assistant Director, Ventura County Health Department; Lois Ann Shearer, Nurse Epidemiologist, James Chin, M.D., Chief, Bureau of Communicable Disease Control, California Department of Public Health; and an EIS Officer.)

Editorial Note:

This is the second reported incident of induced malaria in drug users in 1970. The first incident involved a 20-year-old serviceman in North Carolina who had never traveled outside the United States but who had used heroin for 6 months prior to his onset of illness (MMWR, Vol. 19, No. 31).

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
FEBRUARY 13, 1971 AND FEBRUARY 14, 1970 (6th WEEK)

AREA	ASEPTIC MENIN- GITIS	BRUCEL- LOSIS	DIPH- THERIA	ENCEPHALITIS			HEPATITIS			MALARIA	
				Primary including unsp. cases		Post In- fectious	Serum	Infectious		1971	Cum. 1971
				1971	1970	1971	1971	1971	1970		
UNITED STATES.....	40	1	2	14	11	10	152	1,210	1,068	78	430
NEW ENGLAND.....	1	-	-	1	-	-	4	100	80	2	16
Maine.....	-	-	-	-	-	-	-	10	2	-	1
New Hampshire*.....	-	-	-	-	-	-	-	4	4	-	1
Vermont.....	-	-	-	-	-	-	-	16	2	-	1
Massachusetts.....	-	-	-	1	-	-	1	38	49	2	11
Rhode Island.....	-	-	-	-	-	-	-	13	10	-	1
Connecticut.....	1	-	-	-	-	-	3	19	13	-	1
MIDDLE ATLANTIC.....	1	-	-	-	3	4	57	261	138	2	36
New York City.....	1	-	-	-	-	-	27	43	61	-	1
New York, Up-State...	-	-	-	-	2	1	6	77	23	1	8
New Jersey.....	-	-	-	-	1	-	15	80	21	-	16
Pennsylvania.....	-	-	-	-	-	3	9	61	33	1	11
EAST NORTH CENTRAL.....	2	-	-	2	2	-	18	199	234	3	22
Ohio.....	-	-	-	2	2	-	3	63	85	1	4
Indiana.....	-	-	-	-	-	-	-	9	22	-	-
Illinois.....	-	-	-	-	-	-	3	46	16	-	6
Michigan.....	2	-	-	-	-	-	12	67	96	2	5
Wisconsin*.....	-	-	-	-	-	-	-	14	15	-	7
WEST NORTH CENTRAL.....	-	-	-	1	-	1	7	72	36	7	40
Minnesota.....	-	-	-	-	-	1	-	11	7	-	1
Iowa.....	-	-	-	-	-	-	5	4	7	-	3
Missouri.....	-	-	-	-	-	-	-	18	8	1	11
North Dakota.....	-	-	-	-	-	-	-	2	-	-	-
South Dakota.....	-	-	-	1	-	-	1	9	1	-	-
Nebraska.....	-	-	-	-	-	-	-	6	2	-	3
Kansas.....	-	-	-	-	-	-	1	22	11	6	22
SOUTH ATLANTIC.....	10	1	1	6	2	5	19	172	127	13	68
Delaware.....	-	-	-	-	-	-	-	-	5	-	-
Maryland.....	-	-	-	-	-	-	4	23	15	4	16
Dist. of Columbia....	-	-	-	-	-	-	-	3	1	-	-
Virginia.....	1	-	-	1	2	-	3	25	10	1	8
West Virginia*.....	-	-	-	-	-	-	-	6	7	2	3
North Carolina.....	3	-	-	1	-	-	3	27	29	4	26
South Carolina.....	-	-	-	-	-	-	1	8	13	2	4
Georgia.....	-	-	-	-	-	-	-	9	21	-	2
Florida.....	6	1	1	4	-	5	8	71	26	-	9
EAST SOUTH CENTRAL.....	1	-	-	1	-	-	-	58	69	1	47
Kentucky*.....	-	-	-	-	-	-	-	18	40	1	43
Tennessee.....	1	-	-	-	-	-	-	25	22	-	-
Alabama.....	-	-	-	-	-	-	-	11	2	-	4
Mississippi.....	-	-	-	1	-	-	-	4	5	-	-
WEST SOUTH CENTRAL.....	3	-	1	-	-	-	5	51	92	16	88
Arkansas.....	-	-	-	-	-	-	-	3	22	-	2
Louisiana.....	-	-	1	-	-	-	1	14	13	3	10
Oklahoma*.....	2	-	-	-	-	-	-	3	8	-	15
Texas.....	1	-	-	-	-	-	4	31	49	13	61
MOUNTAIN.....	2	-	-	-	1	-	5	58	38	5	28
Montana.....	-	-	-	-	-	-	-	5	3	-	-
Idaho.....	-	-	-	-	-	-	-	5	5	-	-
Wyoming.....	-	-	-	-	-	-	-	1	3	-	-
Colorado.....	-	-	-	1	-	-	3	3	4	3	24
New Mexico.....	-	-	-	-	-	-	-	4	12	-	-
Arizona.....	2	-	-	-	-	-	-	24	7	2	4
Utah.....	-	-	-	-	-	-	2	16	4	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	20	-	-	3	3	-	37	239	254	29	85
Washington.....	1	-	-	-	-	-	-	21	32	-	-
Oregon.....	-	-	-	-	-	-	2	33	14	4	5
California.....	19	-	-	3	3	-	35	181	203	16	66
Alaska.....	-	-	-	-	-	-	-	3	3	-	1
Hawaii.....	-	-	-	-	-	-	-	1	2	9	13
Puerto Rico.*.....	-	-	-	-	-	-	6	11	40	1	1
Virgin Islands.....	-	-	-	-	-	-	-	1	-	-	-

*Delayed reports: Aseptic meningitis (1970): N.J. 1
 Encephalitis, primary (1970): N.J.; 1, W.Va. 1
 Hepatitis, serum! (1970) P.R. 1 (1971) Ky. 1
 Hepatitis, infectious: (1970) Okla. 19, P.R. 2, (1971) N.H. 1, Ky. 46
 Malaria: (1970) Okla. 1, (1971) Wis. 7

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
FEBRUARY 13, 1971 AND FEBRUARY 14, 1970 (6th 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.....	2,197	8,415	5,491	48	328	394	3,107	18,325	-	-	-
NEW ENGLAND.....	27	238	73	4	17	20	167	1,300	-	-	-
Maine.....	8	123	-	-	5	-	38	195	-	-	-
New Hampshire.*.....	-	4	5	-	1	3	28	115	-	-	-
Vermont.....	-	2	-	-	-	1	-	-	-	-	-
Massachusetts.*.....	13	92	49	4	8	7	48	368	-	-	-
Rhode Island.....	3	8	2	-	1	2	25	337	-	-	-
Connecticut.....	3	9	17	-	2	7	28	285	-	-	-
MIDDLE ATLANTIC.....	310	884	817	6	28	62	188	1,323	-	-	-
New York City.....	155	498	114	-	2	17	22	200	-	-	-
New York, Up-State... New Jersey.*.....	80	148	32	4	8	12	NN	NN	-	-	-
Pennsylvania.....	6	36	405	2	5	14	106	489	-	-	-
EAST NORTH CENTRAL.....	417	1,583	1,428	5	36	64	1,496	7,276	-	-	-
Ohio.....	122	774	445	1	15	34	198	1,513	-	-	-
Indiana.....	9	19	43	1	2	4	105	829	-	-	-
Illinois.....	229	411	744	-	7	10	175	566	-	-	-
Michigan.....	16	86	88	3	9	15	486	1,860	-	-	-
Wisconsin.....	41	293	108	-	3	1	532	2,508	-	-	-
WEST NORTH CENTRAL.....	139	416	682	5	32	7	207	999	-	-	-
Minnesota.....	1	21	4	1	6	2	52	158	-	-	-
Iowa.....	11	57	-	-	2	2	121	595	-	-	-
Missouri.....	99	260	6	3	8	3	6	71	-	-	-
North Dakota.....	8	18	16	-	1	-	19	86	-	-	-
South Dakota.....	10	42	36	-	3	-	7	68	-	-	-
Nebraska.....	2	6	619	1	3	-	1	13	-	-	-
Kansas.....	8	12	1	-	9	-	1	8	-	-	-
SOUTH ATLANTIC.....	152	1,034	821	7	40	82	258	1,320	-	-	-
Delaware.....	-	5	67	-	-	2	3	37	-	-	-
Maryland.....	1	9	124	1	7	6	27	187	-	-	-
Dist. of Columbia....	1	2	183	-	1	1	10	33	-	-	-
Virginia.....	31	480	141	1	2	6	46	169	-	-	-
West Virginia.....	7	50	34	-	1	1	38	316	-	-	-
North Carolina.....	48	270	91	1	6	14	NN	NN	-	-	-
South Carolina.....	10	103	18	1	2	3	31	115	-	-	-
Georgia.....	7	8	-	-	3	17	-	1	-	-	-
Florida.....	47	107	163	3	18	32	103	462	-	-	-
EAST SOUTH CENTRAL.....	785	1,900	72	4	24	30	251	1,680	-	-	-
Kentucky*.....	183	750	56	-	7	10	85	641	-	-	-
Tennessee.....	26	123	4	3	9	15	123	727	-	-	-
Alabama.....	7	329	4	1	5	4	41	290	-	-	-
Mississippi.....	569	698	8	-	3	1	2	22	-	-	-
WEST SOUTH CENTRAL.....	256	1,717	1,139	6	29	65	172	1,136	-	-	-
Arkansas.....	1	5	1	1	1	7	12	16	-	-	-
Louisiana.....	8	213	7	2	11	12	1	11	-	-	-
Oklahoma*.....	19	222	35	-	2	7	-	16	-	-	-
Texas.....	228	1,277	1,096	3	15	39	159	1,093	-	-	-
MOUNTAIN.....	49	279	220	-	13	5	94	667	-	-	-
Montana.....	-	59	8	-	-	-	5	73	-	-	-
Idaho.....	8	58	2	-	-	-	-	82	-	-	-
Wyoming.....	1	5	-	-	-	-	4	17	-	-	-
Colorado.....	17	43	4	-	3	1	45	150	-	-	-
New Mexico.....	10	63	38	-	-	-	4	76	-	-	-
Arizona.....	11	37	165	-	5	2	26	222	-	-	-
Utah.....	2	14	1	-	4	2	10	47	-	-	-
Nevada.....	-	-	2	-	1	-	-	-	-	-	-
PACIFIC.....	62	364	239	11	109	59	274	2,624	-	-	-
Washington.....	34	102	31	1	4	5	63	1,309	-	-	-
Oregon.....	2	33	-	-	10	3	51	280	-	-	-
California.....	23	209	196	10	93	51	138	878	-	-	-
Alaska.....	3	6	1	-	-	-	8	18	-	-	-
Hawaii.....	-	14	11	-	2	-	14	139	-	-	-
Puerto Rico.....	8	20	339	-	-	2	9	94	-	-	-
Virgin Islands*.....	-	2	3	-	-	-	-	-	-	-	-

*Delayed reports: Measles: (1970) Okla. 22, (1971) Mass. delete 4, Ky. 199, V.I. 1
Meningococcal infections: (1970) N.J. 2, Okla. 1, (1971) Ky. 2
Mumps: (1970) Okla. 12, (1971) N.H. 1, Ky. 155

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

FEBRUARY 13, 1971 AND FEBRUARY 14, 1970 (6th 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.....	917	4,076	5	11	2	15	4	33	1	3	63	413
NEW ENGLAND.....	34	165	—	—	—	—	—	1	—	—	5	17
Maine.....	8	40	—	—	—	—	—	—	—	—	5	12
New Hampshire.....	3	4	—	—	—	—	—	—	—	—	—	—
Vermont.....	—	5	—	—	—	—	—	—	—	—	—	5
Massachusetts.....	21	77	—	—	—	—	—	1	—	—	—	—
Rhode Island.....	1	13	—	—	—	—	—	—	—	—	—	—
Connecticut.....	1	26	—	—	—	—	—	—	—	—	—	—
MIDDLE ATLANTIC.....	33	218	2	2	—	—	—	3	—	—	2	32
New York City.....	12	53	2	2	—	—	—	3	—	—	—	—
New York, Up-State..	6	37	—	—	—	—	—	—	—	—	2	31
New Jersey.....	11	47	—	—	—	—	—	—	—	—	—	—
Pennsylvania.....	4	81	—	—	—	—	—	—	—	—	—	1
EAST NORTH CENTRAL....	266	994	—	—	1	1	1	3	—	—	1	34
Ohio.....	130	197	—	—	1	1	—	2	—	—	—	2
Indiana.....	17	268	—	—	—	—	—	—	—	—	—	2
Illinois.....	35	116	—	—	—	—	—	—	—	—	—	11
Michigan.....	53	260	—	—	—	—	1	1	—	—	—	7
Wisconsin.....	31	153	—	—	—	—	—	—	—	—	1	12
WEST NORTH CENTRAL....	24	245	—	1	—	—	—	—	—	—	13	108
Minnesota.....	1	6	—	—	—	—	—	—	—	—	1	13
Iowa.....	5	101	—	—	—	—	—	—	—	—	4	49
Missouri.....	11	95	—	—	—	—	—	—	—	—	3	25
North Dakota.....	1	19	—	—	—	—	—	—	—	—	4	16
South Dakota.....	5	13	—	—	—	—	—	—	—	—	—	—
Nebraska.....	1	7	—	—	—	—	—	—	—	—	—	—
Kansas.....	—	4	—	1	—	—	—	—	—	—	1	5
SOUTH ATLANTIC.....	68	347	2	4	1	10	1	11	—	1	12	51
Delaware.....	—	1	—	—	—	—	—	—	—	—	—	—
Maryland.....	5	11	—	—	—	3	—	3	—	—	—	—
Dist. of Columbia...	1	1	—	—	—	—	—	—	—	—	—	—
Virginia.....	8	35	—	—	1	5	—	1	—	—	4	12
West Virginia.....	9	53	—	—	—	—	—	1	—	—	4	25
North Carolina.....	1	5	—	—	—	2	—	1	—	1	—	—
South Carolina.....	—	57	—	—	—	—	—	—	—	—	—	—
Georgia.....	—	—	—	—	—	—	—	1	—	—	3	9
Florida.....	44	184	2	4	—	—	1	4	—	—	1	5
EAST SOUTH CENTRAL....	73	250	1	2	—	4	1	3	1	1	13	56
Kentucky.*.....	15	76	—	—	—	2	1	1	—	—	4	28
Tennessee.....	24	108	1	1	—	2	—	1	—	—	6	17
Alabama.....	—	25	—	1	—	—	—	1	—	—	3	11
Mississippi.....	34	41	—	—	—	—	—	—	1	1	—	—
WEST SOUTH CENTRAL....	54	447	—	—	—	—	1	2	—	1	8	77
Arkansas.....	—	5	—	—	—	—	—	—	—	—	1	8
Louisiana.....	12	27	—	—	—	—	—	1	—	—	—	3
Oklahoma.*.....	1	15	—	—	—	—	—	—	—	1	4	39
Texas.....	41	400	—	—	—	—	1	1	—	—	3	27
MOUNTAIN.....	28	191	—	2	—	—	—	—	—	—	—	1
Montana.....	5	19	—	—	—	—	—	—	—	—	—	—
Idaho.....	—	13	—	—	—	—	—	—	—	—	—	—
Wyoming.....	—	—	—	—	—	—	—	—	—	—	—	—
Colorado.....	10	60	—	—	—	—	—	—	—	—	—	—
New Mexico.....	8	28	—	—	—	—	—	—	—	—	—	—
Arizona.....	5	57	—	2	—	—	—	—	—	—	—	1
Utah.....	—	14	—	—	—	—	—	—	—	—	—	—
Nevada.....	—	—	—	—	—	—	—	—	—	—	—	—
PACIFIC.....	337	1,219	—	—	—	—	—	10	—	—	9	37
Washington.....	34	252	—	—	—	—	—	—	—	—	—	—
Oregon.....	21	90	—	—	—	—	—	—	—	—	—	—
California.....	280	827	—	—	—	—	—	10	—	—	9	37
Alaska.....	—	9	—	—	—	—	—	—	—	—	—	—
Hawaii.....	2	41	—	—	—	—	—	—	—	—	—	—
Puerto Rico.....	—	—	—	—	—	—	—	—	—	—	2	9
Virgin Islands.....	—	—	—	—	—	—	—	—	—	—	—	—

* Delayed reports: Rubella: (1970) Okla. 14, (1971) Ky. 13
Rabies in animals (1971): Ky. 5

Morbidity and Mortality Weekly Report

Week No. **6** **TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED FEBRUARY 13, 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:	849	515	86	24	SOUTH ATLANTIC:	1,382	754	54	107
Boston, Mass.-----	307	174	37	8	Atlanta, Ga.-----	125	56	4	9
Bridgeport, Conn.-----	47	35	8	—	Baltimore, Md.-----	275	156	5	16
Cambridge, Mass.-----	36	25	4	1	Charlotte, N. C.-----	73	35	—	6
Fall River, Mass.-----	45	30	3	—	Jacksonville, Fla.-----	113	55	6	6
Hartford, Conn.-----	50	24	1	5	Miami, Fla.-----	120	70	4	6
Lowell, Mass.-----	40	26	4	1	Norfolk, Va.-----	61	35	7	2
Lynn, Mass.-----	24	21	5	—	Richmond, Va.-----	113	69	5	4
New Bedford, Mass.-----	33	20	3	2	Savannah, Ga.-----	46	24	5	4
New Haven, Conn.-----	46	26	3	3	St. Petersburg, Fla.-----	112	98	2	—
Providence, R. I.-----	65	26	9	1	Tampa, Fla.-----	63	40	6	2
Somerville, Mass.-----	14	6	2	—	Washington, D. C.-----	242	87	8	51
Springfield, Mass.-----	48	33	3	2	Wilmington, Del.-----	39	29	2	1
Waterbury, Conn.-----	30	22	—	—	EAST SOUTH CENTRAL:	677	381	31	33
Worcester, Mass.-----	64	47	4	1	Birmingham, Ala.-----	121	63	2	5
MIDDLE ATLANTIC:	3,456	2,159	141	106	Chattanooga, Tenn.-----	65	36	3	3
Albany, N. Y.-----	48	26	2	2	Knoxville, Tenn.-----	38	22	3	3
Allentown, Pa.-----	53	34	6	—	Louisville, Ky.-----	138	83	9	6
Buffalo, N. Y.-----	144	82	6	3	Memphis, Tenn.-----	118	71	3	3
Camden, N. J.-----	26	13	4	2	Mobile, Ala.-----	55	28	3	4
Elizabeth, N. J.-----	26	17	—	—	Montgomery, Ala.-----	49	29	4	4
Erie, Pa.-----	37	25	6	—	Nashville, Tenn.-----	93	49	4	5
Jersey City, N. J.-----	65	43	2	—	WEST SOUTH CENTRAL:	1,170	623	49	80
Newark, N. J.-----	82	37	2	6	Austin, Tex.-----	37	26	3	3
New York City, N. Y.†	1,662	1,041	72	41	Baton Rouge, La.-----	59	35	—	10
Paterson, N. J.-----	37	23	3	—	Corpus Christi, Tex.-----	24	8	—	3
Philadelphia, Pa.-----	698	416	8	36	Dallas, Tex.-----	156	81	1	5
Pittsburgh, Pa.-----	137	87	7	7	El Paso, Tex.-----	59	24	4	6
Reading, Pa.-----	58	40	3	—	Fort Worth, Tex.-----	68	39	6	5
Rochester, N. Y.-----	106	76	10	3	Houston, Tex.-----	222	107	9	21
Schenectady, N. Y.-----	31	20	4	1	Little Rock, Ark.-----	64	31	2	4
Scranton, Pa.-----	39	31	1	—	New Orleans, La.-----	150	83	6	2
Syracuse, N. Y.-----	95	69	1	4	Oklahoma City, Okla.-----	79	45	1	5
Trenton, N. J.-----	55	37	—	1	San Antonio, Tex.-----	136	79	8	10
Utica, N. Y.-----	23	16	—	—	Shreveport, La.-----	48	26	1	1
Yonkers, N. Y.-----	34	26	4	—	Tulsa, Okla.-----	68	39	8	5
EAST NORTH CENTRAL:	2,837	1,667	108	114	MOUNTAIN:	452	262	18	26
Akron, Ohio-----	63	39	—	5	Albuquerque, N. Mex.-----	41	27	5	1
Canton, Ohio-----	47	27	2	1	Colorado Springs, Colo.-----	20	11	2	—
Chicago, Ill.-----	844	470	30	30	Denver, Colo.-----	132	75	4	4
Cincinnati, Ohio-----	136	86	4	5	Ogden, Utah-----	16	8	2	1
Cleveland, Ohio-----	213	126	7	10	Phoenix, Ariz.-----	109	61	2	12
Columbus, Ohio-----	137	78	7	9	Pueblo, Colo.-----	22	13	—	—
Dayton, Ohio-----	119	73	3	4	Salt Lake City, Utah-----	63	39	1	4
Detroit, Mich.-----	410	236	10	14	Tucson, Ariz.-----	49	28	2	4
Evansville, Ind.-----	53	35	3	1	PACIFIC:	1,487	908	53	63
Flint, Mich.-----	39	14	1	4	Berkeley, Calif.-----	19	15	2	1
Fort Wayne, Ind.-----	40	21	3	2	Fresno, Calif.-----	48	34	2	2
Gary, Ind.-----	26	9	6	3	Glendale, Calif.-----	25	18	1	—
Grand Rapids, Mich.-----	54	35	10	4	Honolulu, Hawaii-----	60	25	2	12
Indianapolis, Ind.-----	143	86	3	6	Long Beach, Calif.-----	102	65	2	—
Madison, Wis.-----	50	31	9	3	Los Angeles, Calif.-----	461	283	17	23
Milwaukee, Wis.-----	165	110	3	5	Oakland, Calif.-----	69	43	2	6
Peoria, Ill.-----	39	27	1	3	Pasadena, Calif.-----	35	25	1	—
Rockford, Ill.-----	34	25	2	—	Portland, Ore.-----	135	85	6	3
South Bend, Ind.-----	44	29	3	1	Sacramento, Calif.-----	68	43	2	1
Toledo, Ohio-----	120	65	—	4	San Diego, Calif.-----	93	52	3	3
Youngstown, Ohio-----	61	45	1	—	San Francisco, Calif.-----	128	78	4	4
WEST NORTH CENTRAL:	901	563	23	48	San Jose, Calif.-----	48	29	4	2
Des Moines, Iowa-----	68	46	1	4	Seattle, Wash.-----	121	66	3	5
Duluth, Minn.-----	40	28	2	1	Spokane, Wash.-----	33	22	1	—
Kansas City, Kans.-----	36	15	3	6	Tacoma, Wash.-----	42	25	1	1
Kansas City, Mo.-----	140	83	4	8	Total	13,211	7,832	563	601
Lincoln, Nebr.-----	31	23	—	1	Expected Number	13,661	8,006	578	562
Minneapolis, Minn.-----	117	76	3	7	Cumulative Total (includes reported corrections for previous weeks)	84,739	49,601	3,475	3,907
Omaha, Nebr.-----	93	50	—	4					
St. Louis, Mo.-----	205	131	5	9					
St. Paul, Minn.-----	88	60	—	4					
Wichita, Kans.-----	83	51	5	4					
Las Vegas, Nev.*	17	10	2	2	*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.				

† Delayed Report for Week ended February 6, 1971

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas January 1970 and January 1971 - Provisional Data.

Reporting Area	January		Cumulative January		Reporting Area	January		Cumulative January	
	1971	1970	1971	1970		1971	1970	1971	1970
NEW ENGLAND.....	39	41	39	41	EAST SOUTH CENTRAL.....	93	44	93	44
Maine.....	1	1	1	1	Kentucky.....	28	12	28	12
New Hampshire.....	-	-	-	-	Tennessee.....	26	14	26	14
Vermont.....	-	-	-	-	Alabama.....	11	9	11	9
Massachusetts.....	20	26	20	26	Mississippi.....	28	9	28	9
Rhode Island.....	-	6	-	6	WEST SOUTH CENTRAL.....	319	186	319	186
Connecticut.....	18	8	18	8	Arkansas.....	24	15	24	15
MIDDLE ATLANTIC.....	541	433	541	433	Louisiana.....	47	36	47	36
Upstate New York.....	44	33	44	33	Oklahoma.....	5	6	5	6
New York City.....	377	321	377	321	Texas.....	243	129	243	129
Pa. (Excl. Phila.).....	15	11	15	11	MOUNTAIN.....	44	42	44	42
Philadelphia.....	8	17	8	17	Montana.....	-	1	-	1
New Jersey.....	97	51	97	51	Idaho.....	-	1	-	1
EAST NORTH CENTRAL.....	214	239	214	239	Wyoming.....	-	-	-	-
Ohio.....	40	37	40	37	Colorado.....	3	3	3	3
Indiana.....	30	39	30	39	New Mexico.....	9	12	9	12
Downstate Illinois.....	10	14	10	14	Arizona.....	16	14	16	14
Chicago.....	57	84	57	84	Utah.....	1	1	1	1
Michigan.....	69	57	69	57	Nevada.....	15	10	15	10
Wisconsin.....	8	8	8	8	PACIFIC.....	236	192	236	192
WEST NORTH CENTRAL.....	45	43	45	43	Washington.....	11	4	11	4
Minnesota.....	6	7	6	7	Oregon.....	2	2	2	2
Iowa.....	0	1	0	1	California.....	223	185	223	185
Missouri.....	29	18	29	18	Alaska.....	-	-	-	-
North Dakota.....	-	1	-	1	Hawaii.....	-	1	-	1
South Dakota.....	1	5	1	5	U. S. TOTAL.....	2,041	1,615	2,041	1,615
Nebraska.....	2	3	2	3	TERRITORIES.....	61	88	61	88
Kansas.....	7	8	7	8	Puerto Rico.....	60	87	60	87
SOUTH ATLANTIC.....	510	395	510	395	Virgin Islands.....	1	1	1	1
Delaware.....	3	3	3	3					
Maryland.....	46	50	46	50					
District of Columbia.....	57	38	57	38					
Virginia.....	21	25	21	25					
West Virginia.....	2	3	2	3					
North Carolina.....	43	49	43	49					
South Carolina.....	25	34	25	34					
Georgia.....	153	76	153	76					
Florida.....	160	117	160	117					

Note: Cumulative Totals include revised and delayed reports through previous months.

The Morbidity and Mortality Weekly Report, circulation 22,500, is published by the Center for Disease Control, Atlanta, Ga.

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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 for case investigations of current interest to health officials.

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Atlanta, Georgia 30333

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