

Morbidity and Mortality



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EPIDEMIOLOGIC NOTES AND REPORTS

CONTENTS

FOLLOW-UP ON VENEZUELAN EQUINE ENCEPHALITIS

Epidemiologic Notes and Reports

Texas

Since the last report on Venezuelan equine encephalitis (VEE) (MMWR, Vol. 20, No. 29), a total of 58 viral isolates from equine cases in Texas have been identified as VEE by the complement fixation (CF) test. Twenty-three of these equines had either not been vaccinated or the isolates from them were virulent for guinea pigs* (Figure 1). Of the remaining 35 on which guinea pig inoculation test results are not yet available, 16 had been vaccinated; for 19, the vaccination history was unknown. The U.S. Department of Agriculture (USDA) has estimated that since the epidemic began, there have been 1,957 sick and 1,411 dead horses reported in Texas.

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A total of 52 laboratory confirmed human cases of VEE have also been reported. Fifty are from Cameron and Hidalgo counties and one each from Kleberg and Nueces counties, also in south Texas.

In addition to the TC-83 vaccine supplied by the USDA, a commercial TC-83 vaccine will be available near the end of August. A special license has been issued by the Veterinary Biologics Division, Agriculture Research Service, USDA, to allow the Jen-Sal Company to market the vaccine in states that have permission of the State Veterinarian to use it. (Reported by M.S. Dickerson, M.D., Chief, Communicable Diseases Services, J.E. Peavy, M.D., Commissioner, Texas State Department of Health; E.E. Saulmon, D.V.M., Deputy Administrator, Office of Administration, Animal Research Service, Dr. Richard E. Omohundro, Coordinator of Region- (Continued on page 268)

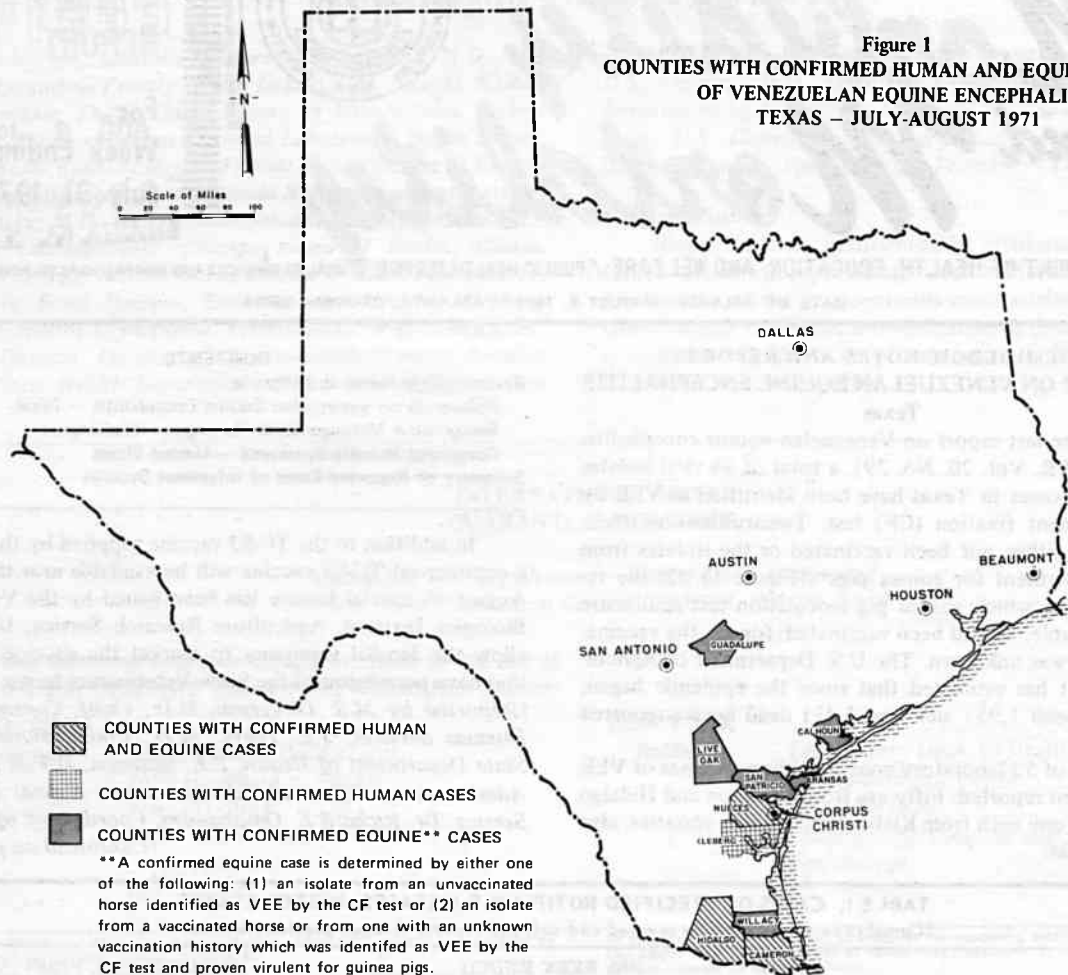
TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	30th WEEK ENDED		MEDIAN 1966 - 1970	CUMULATIVE, FIRST 30 WEEKS		
	July, 31, 1971	August 1, 1970		1971	1970	MEDIAN 1966 - 1970
Aseptic meningitis	137	158	105	1,826	1,492	1,107
Brucellosis	1	4	4	90	123	128
Diphtheria	2	2	2	94	192	98
Encephalitis, primary:						
Arthropod-borne & unspecified	31	45	34	745	685	685
Encephalitis, post-infectious	6	8	8	240	282	317
Hepatitis, serum	157	115	98	4,888	4,081	2,402
Hepatitis, infectious	1,070	1,194	843	34,940	32,119	25,073
Malaria	28	64	51	1,962	1,993	1,226
Measles (rubeola)	472	390	286	67,192	38,230	38,230
Meningococcal infections, total	25	40	34	1,614	1,683	1,816
Civilian	24	35	34	1,430	1,509	1,643
Military	1	5	1	184	174	174
Mumps	725	799	---	95,978	71,751	---
Poliomyelitis, total	—	2	2	7	16	19
Paralytic	—	2	2	5	16	16
Rubella (German measles)	267	251	327	36,916	47,806	41,756
Tetanus	4	2	4	59	63	82
Tularemia	10	6	4	91	73	92
Typhoid fever	8	5	7	170	149	176
Typhus, tick-borne (Rky. Mt. spotted fever)	23	24	16	214	199	153
Rabies in animals	68	55	76	2,534	1,845	2,158

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	2	Psittacosis:	21
Botulism: N.Y.C.-2	6	Rabies in Man:	1
Leprosy: Hawaii-1, Tex.-2	80	Rubella congenital syndrome: Md.-1	35
Leptospirosis: La-1	21	Trichinosis:	38
Plague:	—	Typhus, murine: Tenn.-1	10

VENEZUELAN EQUINE ENCEPHALITIS – (Continued from front page)



al VEE Eradication Program, U.S. Department of Agriculture; the Laboratory Division, and the Epidemiology Program, CDC).

*The intraperitoneal inoculation of virus into guinea pigs is a crude test of the degree of pathogenicity of the virus. If the isolate is virulent for guinea pigs, it is more likely to be the epidemic strain.

Editorial Note

Isolates from vaccinated horses can be either the vaccine strain or the epidemic strain which was present when the animal was vaccinated. This does not indicate, however, that the vaccine is ineffective or that it causes clinical illness in horses.

SEROGROUP A MENINGOCOCCAL MENINGITIS – Washington

In June and July 1971, two unrelated cases of serogroup A meningococcal meningitis were reported from Seattle, Washington. The case reports are summarized below.

Case 1: On June 23, 1971, a 20-year-old female had onset within a 12-hour-period of fever, delirium, and rash and was admitted to a local hospital. On admission, she had a temperature of 104°F., nuchal rigidity, a petechial rash, and cerebrospinal fluid (CSF) pleocytosis. Blood and CSF specimens were obtained, and the patient was started on intravenous ampicillin. Serogroup A *Neisseria meningitidis* was isolated from both cultures of blood and CSF specimens. The organism was later found to be sulfonamide-resistant. The patient responded well to therapy and was discharged 8 days later without neurologic residua. Five family members received sulfasoxazole and penicillin-V prophylactically for 3 days. Subsequently, cultures of nasopharyngeal swabs from them were negative for *N. meningitidis*.

Case 2: On July 6, 1971, a 19-year-old female experienced headache, fever, chills, and sore throat. By July 8, drowsiness and visual disturbances had developed, and she was admitted to a local hospital. On examination, stiff neck and nystagmus were noted. CSF contained gram-negative diplococci which were later confirmed as serogroup A *N. meningitidis*, sulfonamide-sensitive. The patient recovered after treatment with antibiotics. Specimens from four household contacts and four other contacts were cultured; all cultures were negative for *N. meningitidis*.

Since isolates of serogroup A *N. meningitidis* have been reported from several Canadian provinces in the past year, both patients were questioned regarding contact with Canadians. The first patient attended a dance in Victoria, British Columbia, 5 days prior to the onset of her symptoms. The second patient had no known contact with Canadians.

(Reported by Edmund R. Clarke, M.D., private physician,

Group Health Cooperative, Patrick A. Ragen, M.D., private physician, The Mason Clinic, Seattle, Washington; Jean Spearman, R.N., Public Health Nurse Epidemiologist, Evelyn Tronca, M.S., Assistant Director of Laboratories, A.H.B. Pedersen, M.D., M.P.H., Director, Adult Health, Seattle-King County Department of Public Health, Washington; Byron J. Francis, M.D., Chief, Office of Epidemiology, Health Services Division, Washington State Department of Social and Health Services; S. E. Acres, M.D., D.P.H., Medical Consultant, Epidemiology Division, Department of National Health and Welfare, Ottawa, Canada; and the Clinical Bacteriology Unit, Laboratory Division, CDC.)

Editorial Comment

Since 1964, when sulfonamide-sensitivity testing of meningococcal isolates became routine, 18 isolates of serogroup A *N. meningitidis* have been confirmed at CDC. The isolate reported in Case 1 is the first one found to be sulfonamide-

resistant. In the last year, seven serogroup A meningococcal isolates from cases in Canada have been tested at CDC; all were sulfonamide-sensitive. Sulfonamide-resistant serogroup meningococcal strains have been found in recent years in Africa and Greece (1-3).

References

- Alexander CE, et al: Sulfadiazine-resistant group A *Neisseria meningitidis*. Science 161:1019, 1968
- Lefèvre M, et al: Données biologiques et cliniques concernant le comportement de *Neisseria meningitidis* A vis-à-vis de quelques sulfamides et antibiotiques: observations faites à Fort-Lamy (Tchad) lors d'une poussée saisonnière de méningite cérébro-spinale. Bull WHO 40: 331, 1969
- Vassiliadis P, et al: Sulphadiazine-resistant group A meningococci isolated during the 1968 meningitis epidemic in Greece. J Hyg 67: 279, 1969

CONGENITAL RUBELLA SYNDROME – United States

Since the National Registry for Congenital Rubella Syndrome (CRS) was established in September 1969 (MMWR, Vol. 20, No. 3), 95 case report forms have been submitted to CDC from 27 states and Washington, D.C. As of the 27th week 1971, 33 cases of CRS were officially reported to CDC, compared to 38 cases for the same period in 1970. Figure 2 shows the reported cases of rubella and births of the 84 infants with CRS for whom date of birth was known by 4-week periods 1968-July 1971. The peak incidence of reported congenital rubella births occurred 7-9 months after the 1969 peak incidence of rubella.

Of the 95 cases reported, 74 were confirmed as CRS by laboratory findings* or designated as CRS by clinical criteria, and 21 were considered presumptive cases, pending further diagnosis. Twenty infants died; 17 of these were less than 2½ months old. In 53 (55.8 percent) of the reported cases,

clinical histories indicated maternal rubella in the first trimester of pregnancy.

(Reported by the Field Services Branch, Epidemiology Program, and the Immunization Branch, State and Community Services Division, CDC.)

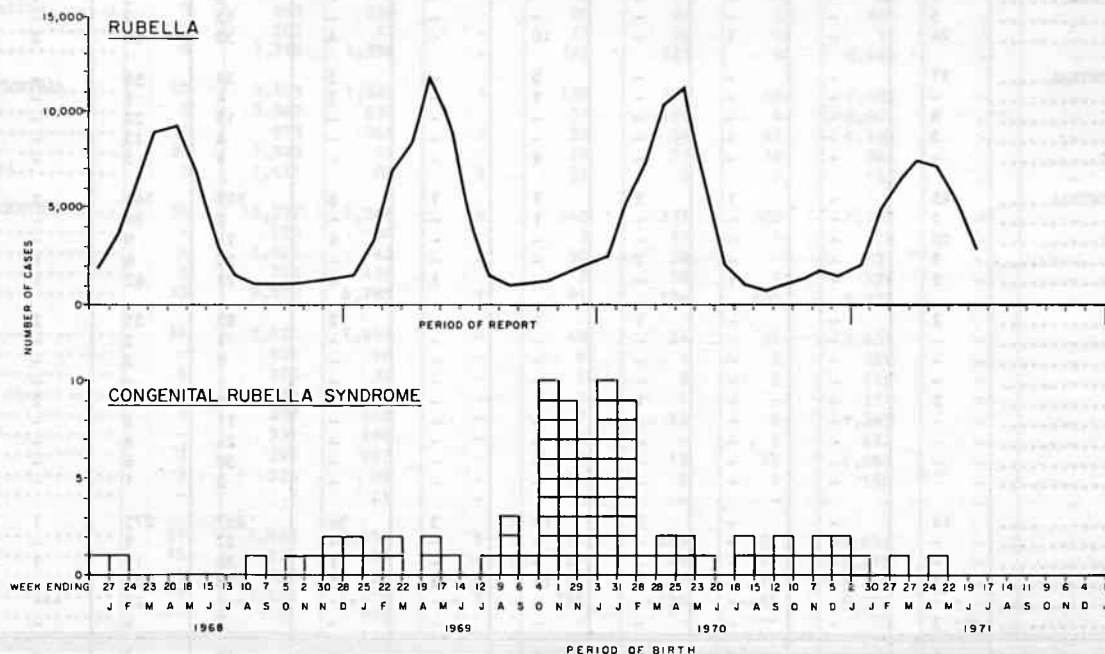
*The presently accepted criteria for laboratory confirmation of CRS are: (1) isolation of rubella virus from a neonate and (2) increased rubella IgM antibodies in the neonatal period or persistent rubella hemagglutination-inhibition antibody between 6 and 9 months of age (1) (2).

References

- Cooper LZ, Krugman S: The Rubella Problem. Disease-a-Month, Feb 1969
- Vesikari T, Vaheri A, Pettay O, Kunnas M: Congenital rubella: immune response of the neonate and diagnosis by demonstration of specific IgM antibodies. J Pediat 75:658-664, 1969

Figure 2

CASES OF RUBELLA* AND OF CONGENITAL RUBELLA SYNDROME BY BIRTH,** BY 4-WEEK PERIODS, USA, 1968-1971



*OFFICIAL TELEGRAPHIC REPORTS FROM STATES AND AREAS
 **FROM CASE REPORT FORMS

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED
JULY 31, 1971 AND AUGUST 1, 1970 (30th 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.....	137	1	2	31	45	6	157	1,070	1,194	28	1,962
NEW ENGLAND.....	5	-	-	1	-	-	11	71	90	-	55
Maine.*.....	-	-	-	-	-	-	-	16	14	-	3
New Hampshire.*.....	3	-	-	-	-	-	-	-	3	-	1
Vermont.....	-	-	-	-	-	-	-	5	14	-	1
Massachusetts.....	-	-	-	1	-	-	1	30	31	-	37
Rhode Island.....	2	-	-	-	-	-	8	-	17	-	6
Connecticut.....	-	-	-	-	-	-	2	20	11	-	7
MIDDLE ATLANTIC.....	9	-	-	7	-	1	77	221	228	3	196
New York City.....	-	-	-	-	-	-	42	60	62	-	21
New York, Up-State... New Jersey.....	3 3	- -	- -	6 1	- -	- -	3 26	41 79	60 59	1 -	52 79
Pennsylvania.....	3	-	-	-	-	1	6	41	47	2	44
EAST NORTH CENTRAL.....	10	-	-	7	14	-	9	116	164	1	129
Ohio.....	3	-	-	4	7	-	1	21	27	-	17
Indiana.....	1	-	-	-	-	-	-	5	8	1	11
Illinois.....	-	-	-	-	1	-	1	11	34	-	38
Michigan.....	6	-	-	3	6	-	7	72	77	-	38
Wisconsin.....	-	-	-	-	-	-	-	7	18	-	25
WEST NORTH CENTRAL.....	3	-	-	-	2	1	-	42	38	10	182
Minnesota.....	1	-	-	-	-	1	-	10	6	-	22
Iowa.....	-	-	-	-	1	-	-	4	2	-	23
Missouri.....	-	-	-	-	-	-	-	7	16	1	24
North Dakota.....	-	-	-	-	1	-	-	2	-	-	1
South Dakota.....	-	-	-	-	-	-	-	1	-	-	-
Nebraska.....	2	-	-	-	-	-	-	4	3	1	8
Kansas.....	-	-	-	-	-	-	-	14	11	8	104
SOUTH ATLANTIC.....	38	1	1	6	11	-	11	138	148	9	310
Delaware.....	1	-	-	-	-	-	-	3	3	-	1
Maryland.....	2	1	-	1	-	-	3	15	18	1	44
Dist. of Columbia....	-	-	-	-	-	-	-	1	2	2	4
Virginia.....	-	-	-	4	-	-	3	30	56	3	44
West Virginia.....	-	-	-	1	-	-	-	11	5	-	7
North Carolina.....	3	-	-	-	1	-	1	24	27	-	108
South Carolina.....	3	-	-	-	-	-	-	6	5	1	15
Georgia.....	5	-	-	-	-	-	-	15	2	-	57
Florida.....	24	-	1	-	10	-	4	33	30	2	30
EAST SOUTH CENTRAL.....	11	-	-	-	5	-	3	31	55	-	123
Kentucky.....	-	-	-	-	1	-	3	4	9	-	99
Tennessee.....	8	-	-	-	-	-	-	19	28	-	-
Alabama.....	3	-	-	-	-	-	-	4	13	-	18
Mississippi.....	-	-	-	-	4	-	-	4	5	-	6
WEST SOUTH CENTRAL.....	45	-	1	2	1	1	8	109	161	2	433
Arkansas.....	3	-	-	-	1	-	-	2	84	-	17
Louisiana.....	28	-	-	-	-	-	4	13	9	-	35
Oklahoma.....	9	-	-	2	-	-	-	23	6	1	64
Texas.....	5	-	1	-	-	1	4	71	62	1	317
MOUNTAIN.....	2	-	-	1	1	-	2	85	35	2	103
Montana.....	-	-	-	-	-	-	-	1	2	-	1
Idaho.....	-	-	-	-	-	-	-	9	3	-	4
Wyoming.....	-	-	-	-	-	-	-	-	-	-	1
Colorado.....	2	-	-	1	1	-	2	8	13	2	77
New Mexico.....	-	-	-	-	-	-	-	11	2	-	7
Arizona.....	-	-	-	-	-	-	-	24	8	-	8
Utah.....	-	-	-	-	-	-	-	30	6	-	3
Nevada.....	-	-	-	-	-	-	-	2	1	-	2
PACIFIC.....	14	-	-	7	11	3	36	257	275	1	431
Washington.....	-	-	-	-	-	-	-	27	9	-	1
Oregon.....	-	-	-	-	-	-	1	30	11	1	18
California.....	11	-	-	7	11	3	35	198	221	-	365
Alaska.....	-	-	-	-	-	-	-	-	28	-	3
Hawaii.....	3	-	-	-	-	-	-	2	6	-	44
Puerto Rico.....	-	-	-	-	-	-	-	18	5	-	18
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Aseptic meningitis: Me. 1
Hepatitis, serum: La. delete 1
Hepatitis, infectious: N.H. 1, N.J. delete 1

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 31, 1971 AND AUGUST 1, 1970 (30th WEEK) - CONTINUED

AREA	MEASLES (Rubeola)			MENINGOCOCCAL INFECTIONS, TOTAL			MUMPS		POLIOMYELITIS		
	1971	Cumulative		1971	Cumulative		1971	Cum. 1971	Total	Paralytic	
		1971	1970		1971	1970			1971	1971	1971
UNITED STATES.....	472	67,192	38,230	25	1,614	1,683	725	95,978	-	-	5
NEW ENGLAND.....	22	3,397	826	2	71	73	54	5,841	-	-	-
Maine.....	6	1,451	197	-	8	3	11	1,160	-	-	-
New Hampshire.....	2	196	49	1	11	7	-	644	-	-	-
Vermont.....	-	109	8	-	-	6	9	303	-	-	-
Massachusetts.....	6	264	374	-	28	32	11	1,424	-	-	-
Rhode Island.....	-	237	118	-	3	5	9	1,153	-	-	-
Connecticut.....	8	1,140	80	1	21	20	14	1,157	-	-	-
MIDDLE ATLANTIC.....	56	7,335	4,672	6	215	297	55	6,049	-	-	-
New York City.....	42	3,681	818	-	41	74	43	1,595	-	-	-
New York, Up-State...	5	619	255	1	60	57	NN	NN	-	-	-
New Jersey.....	6	1,157	1,667	2	51	114	3	1,647	-	-	-
Pennsylvania.....	3	1,878	1,932	3	63	52	9	2,807	-	-	-
EAST NORTH CENTRAL.....	98	14,817	9,471	2	179	191	194	39,135	-	-	-
Ohio.....	23	3,940	3,729	-	54	77	12	7,541	-	-	-
Indiana.....	9	2,655	261	-	13	18	11	5,027	-	-	-
Illinois.....	4	2,857	3,002	1	52	42	3	4,090	-	-	-
Michigan.....	34	2,198	1,615	-	49	46	28	9,342	-	-	-
Wisconsin.....	28	3,167	864	1	11	8	140	13,135	-	-	-
WEST NORTH CENTRAL.....	42	6,763	3,781	-	122	86	32	6,363	-	-	-
Minnesota.....	-	52	37	-	20	12	1	1,089	-	-	-
Iowa.....	-	2,230	1,096	-	9	11	13	2,891	-	-	-
Missouri.....	4	2,589	1,250	-	44	51	5	1,005	-	-	-
North Dakota.....	2	230	315	-	5	3	-	305	-	-	-
South Dakota.....	3	214	91	-	5	-	2	221	-	-	-
Nebraska.....	-	62	924	-	14	5	9	86	-	-	-
Kansas.....	33	1,386	68	-	25	4	2	766	-	-	-
SOUTH ATLANTIC.....	111	7,285	7,001	4	285	347	66	6,866	-	-	1
Delaware.....	1	35	257	-	2	3	4	158	-	-	-
Maryland.....	2	524	1,371	1	44	33	19	613	-	-	-
Dist. of Columbia...	-	15	342	-	10	3	2	85	-	-	-
Virginia.....	79	1,499	1,953	2	28	35	22	920	-	-	-
West Virginia.....	3	486	289	-	7	7	8	1,768	-	-	-
North Carolina.....	12	1,914	830	1	49	71	NN	NN	-	-	-
South Carolina.....	5	895	550	-	20	44	2	830	-	-	-
Georgia.....	-	201	13	-	23	30	-	11	-	-	1
Florida.....	9	1,716	1,396	-	102	121	9	2,481	-	-	-
EAST SOUTH CENTRAL.....	40	8,105	1,229	4	139	131	68	7,482	-	-	-
Kentucky.....	8	3,867	690	-	37	45	4	2,304	-	-	-
Tennessee.....	1	998	364	2	53	56	41	4,182	-	-	-
Alabama.....	30	1,829	87	-	28	21	16	864	-	-	-
Mississippi.....	1	1,411	88	2	21	9	7	132	-	-	-
WEST SOUTH CENTRAL.....	36	12,237	7,345	4	143	231	102	7,759	-	-	2
Arkansas.....	-	775	30	-	5	19	1	78	-	-	-
Louisiana.....	-	1,664	92	3	50	59	-	131	-	-	-
Oklahoma.....	3	748	438	-	7	19	1	179	-	-	-
Texas.....	33	9,050	6,785	1	81	134	100	7,371	-	-	2
MOUNTAIN.....	16	3,120	1,454	-	48	34	32	3,831	-	-	-
Montana.....	-	904	49	-	6	1	2	369	-	-	-
Idaho.....	6	270	32	-	7	5	2	115	-	-	-
Wyoming.....	-	84	11	-	2	1	-	274	-	-	-
Colorado.....	4	807	168	-	7	12	4	1,242	-	-	-
New Mexico.....	-	331	184	-	3	-	9	617	-	-	-
Arizona.....	3	391	957	-	8	13	12	1,064	-	-	-
Utah.....	3	326	32	-	12	2	3	150	-	-	-
Nevada.....	-	7	21	-	3	-	-	-	-	-	-
PACIFIC.....	51	4,133	2,451	3	412	293	122	12,652	-	-	2
Washington.....	15	971	499	-	23	39	13	5,218	-	-	1
Oregon.....	1	367	222	-	29	22	18	1,241	-	-	1
California.....	29	2,424	1,419	3	354	230	84	5,321	-	-	-
Alaska.....	---	52	135	---	-	-	---	75	---	---	-
Hawaii.....	6	119	176	-	6	2	7	797	-	-	-
Puerto Rico.....	3	409	868	1	5	4	6	869	-	-	-
Virgin Islands.....	2	15	6	-	-	1	-	40	-	-	-

*Delayed reports: Measles: Me. 12
Meningococcal infections: Ind. delete 1
Mumps: Me. 6, Kans. 345

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 31, 1971 AND AUGUST 1, 1970 (30th 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.....	267	36,916	4	59	10	91	8	170	23	214	68	2,534
NEW ENGLAND.....	10	1,656	-	4	-	-	-	9	-	-	1	169
Maine.....	1	252	-	-	-	-	-	-	-	-	-	159
New Hampshire.....	-	46	-	1	-	-	-	-	-	-	-	1
Vermont.....	-	94	-	-	-	-	-	-	-	-	1	9
Massachusetts.....	7	802	-	1	-	-	-	6	-	-	-	-
Rhode Island.....	1	91	-	-	-	-	-	-	-	-	-	-
Connecticut.....	1	371	-	2	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	17	2,413	1	6	-	-	1	22	-	24	9	109
New York City.....	15	476	-	5	-	-	-	7	-	1	-	-
New York, Up-State..	-	389	1	1	-	-	-	11	-	13	7	100
New Jersey.....	-	570	-	-	-	-	-	2	-	6	-	-
Pennsylvania.....	2	978	-	-	-	-	1	2	-	4	2	9
EAST NORTH CENTRAL....	73	7,933	-	6	-	4	1	20	-	15	7	262
Ohio.....	11	931	-	1	-	1	-	8	-	12	-	74
Indiana.....	18	1,938	-	1	-	-	1	4	-	-	-	57
Illinois.....	4	1,202	-	3	-	1	-	5	-	3	3	51
Michigan.....	11	2,536	-	1	-	-	-	3	-	-	-	36
Wisconsin.....	29	1,326	-	-	-	2	-	-	-	-	4	44
WEST NORTH CENTRAL....	15	3,120	1	4	1	13	-	1	1	4	18	673
Minnesota.....	-	270	1	2	-	-	-	-	-	-	5	136
Iowa.....	1	657	-	-	-	-	-	-	-	-	4	157
Missouri.....	-	1,318	-	2	-	10	-	1	1	2	-	101
North Dakota.....	-	89	-	-	-	-	-	-	-	-	5	124
South Dakota.....	-	95	-	-	1	1	-	-	-	-	1	78
Nebraska.....	-	80	-	-	-	-	-	-	-	-	-	2
Kansas.....	14	611	-	-	-	2	-	-	-	2	3	75
SOUTH ATLANTIC.....	34	2,892	-	14	1	17	-	29	14	107	5	269
Delaware.....	1	46	-	-	-	-	-	1	-	2	-	-
Maryland.....	1	126	-	1	-	3	-	3	1	18	-	1
Dist. of Columbia...	-	7	-	-	-	-	-	1	-	-	-	-
Virginia.....	18	198	-	1	1	8	-	3	-	15	-	61
West Virginia.....	8	527	-	-	-	-	-	3	-	3	2	99
North Carolina.....	-	45	-	-	-	4	-	3	12	58	-	3
South Carolina.....	-	426	-	-	-	-	-	-	-	8	-	-
Georgia.....	-	-	-	2	-	-	-	2	1	3	2	73
Florida.....	6	1,517	-	10	-	2	-	13	-	-	1	32
EAST SOUTH CENTRAL....	36	3,122	-	8	-	9	3	23	3	27	4	237
Kentucky.....	3	1,083	-	-	-	2	-	5	-	4	2	130
Tennessee.....	31	1,773	-	5	-	4	2	14	2	18	2	71
Alabama.....	1	196	-	2	-	2	1	4	1	3	-	36
Mississippi.....	1	70	-	1	-	1	-	-	-	2	-	-
WEST SOUTH CENTRAL....	38	4,428	1	8	8	37	2	21	5	29	13	543
Arkansas.....	2	328	-	1	4	13	2	5	-	2	3	64
Louisiana.....	-	280	-	1	1	5	-	6	-	-	1	20
Oklahoma.....	2	65	1	1	3	12	-	2	5	22	3	235
Texas.....	34	3,755	-	5	-	7	-	8	-	5	6	224
MOUNTAIN.....	7	1,842	-	2	-	11	-	7	-	8	1	42
Montana.....	-	111	-	-	-	1	-	-	-	3	-	-
Idaho.....	-	39	-	1	-	1	-	-	-	1	-	-
Wyoming.....	-	858	-	-	-	-	-	-	-	-	-	8
Colorado.....	3	259	-	-	-	-	-	-	-	2	-	11
New Mexico.....	-	201	-	-	-	-	-	5	-	-	1	7
Arizona.....	3	309	-	1	-	-	-	2	-	-	-	14
Utah.....	1	51	-	-	-	9	-	-	-	1	-	1
Nevada.....	-	14	-	-	-	-	-	-	-	1	-	1
PACIFIC.....	37	9,510	1	7	-	-	1	38	-	-	10	230
Washington.....	3	1,320	-	1	-	-	-	-	-	-	-	-
Oregon.....	7	699	-	-	-	-	-	-	-	-	2	4
California.....	25	7,318	1	6	-	-	-	36	-	-	8	192
Alaska.....	---	43	---	-	---	-	---	1	---	-	---	34
Hawaii.....	2	130	-	-	-	-	1	-	-	-	-	-
Puerto Rico.....	8	57	-	5	-	-	-	2	-	-	2	47
Virgin Islands.....	-	-	-	-	-	-	-	-	-	-	-	-

*Delayed reports: Rubella: Kans. 234

Typhoid fever: Ark. delete 2

Rabies in animals: S. Dak. 42, Md. 1, Ariz. 1

Morbidity and Mortality Weekly Report

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TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 31, 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:	693	398	46	32	SOUTH ATLANTIC:	1,256	667	35	54
Boston, Mass.-----	235	121	27	17	Atlanta, Ga.-----	137	67	2	12
Bridgeport, Conn.-----	40	20	3	-	Baltimore, Md.-----	238	114	3	7
Cambridge, Mass.-----	22	15	3	-	Charlotte, N. C.-----	51	23	-	3
Fall River, Mass.-----	28	20	-	-	Jacksonville, Fla.-----	74	31	4	7
Hartford, Conn.-----	51	22	-	6	Miami, Fla.-----	108	59	1	4
Lowell, Mass.-----	22	15	-	-	Norfolk, Va.-----	55	34	5	1
Lynn, Mass.-----	23	14	-	-	Richmond, Va.-----	99	60	3	3
New Bedford, Mass.-----	25	18	2	1	Savannah, Ga.-----	35	19	1	-
New Haven, Conn.-----	50	31	1	3	St. Petersburg, Fla.-----	96	77	5	5
Providence, R. I.-----	63	37	5	2	Tampa, Fla.-----	74	36	4	4
Somerville, Mass.-----	10	9	1	-	Washington, D. C.-----	245	128	6	6
Springfield, Mass.-----	52	28	4	-	Wilmington, Del.-----	44	19	1	2
Waterbury, Conn.-----	25	19	-	1					
Worcester, Mass.-----	47	29	-	2	EAST SOUTH CENTRAL:	692	366	38	33
MIDDLE ATLANTIC:	2,887	1,677	113	107	Birmingham, Ala.-----	82	46	2	1
Albany, N. Y.-----	41	25	1	1	Chattanooga, Tenn.-----	49	28	3	3
Allentown, Pa.-----	28	20	2	1	Knoxville, Tenn.-----	40	31	7	1
Buffalo, N. Y.-----	135	75	4	9	Louisville, Ky.-----	152	82	15	8
Camden, N. J.-----	34	17	4	3	Memphis, Tenn.-----	179	92	5	3
Elizabeth, N. J.-----	32	14	-	-	Mobile, Ala.-----	51	27	2	7
Erie, Pa.-----	53	25	3	1	Montgomery, Ala.-----	54	24	1	5
Jersey City, N. J.††	58	35	3	2	Nashville, Tenn.-----	85	36	3	5
Newark, N. J.-----	56	29	3	2	WEST SOUTH CENTRAL:	1,232	648	29	80
New York City, N. Y.†	1,530	881	54	53	Austin, Tex.-----	47	29	4	3
Paterson, N. J.-----	42	26	5	5	Baton Rouge, La.-----	41	25	-	1
Philadelphia, Pa.-----	396	225	3	15	Corpus Christi, Tex.-----	44	20	1	1
Pittsburgh, Pa.-----	112	63	6	4	Dallas, Tex.-----	166	80	3	15
Reading, Pa.-----	29	22	1	1	El Paso, Tex.-----	39	20	1	9
Rochester, N. Y.-----	127	79	15	5	Fort Worth, Tex.-----	82	47	5	5
Schenectady, N. Y.-----	20	15	4	-	Houston, Tex.-----	264	120	7	21
Scranton, Pa.-----	23	18	-	-	Little Rock, Ark.-----	71	37	-	5
Syracuse, N. Y.-----	79	51	2	2	New Orleans, La.-----	161	94	-	5
Trenton, N. J.-----	41	21	2	2	Oklahoma City, Okla.-----	75	39	-	4
Utica, N. Y.-----	22	16	-	-	San Antonio, Tex.-----	127	57	-	7
Yonkers, N. Y.-----	29	20	1	1	Shreveport, La.-----	42	30	2	3
					Tulsa, Okla.-----	73	50	6	1
EAST NORTH CENTRAL:	2,416	1,343	45	129	MOUNTAIN:	441	245	16	15
Akron, Ohio-----	69	46	1	7	Albuquerque, N. Mex.-----	41	22	6	1
Canton, Ohio-----	41	26	3	1	Colorado Springs, Colo.-----	24	12	1	1
Chicago, Ill.-----	624	331	10	27	Denver, Colo.-----	111	61	1	4
Cincinnati, Ohio-----	151	81	2	9	Ogden, Utah-----	16	7	2	-
Cleveland, Ohio-----	198	102	2	21	Phoenix, Ariz.-----	105	58	-	2
Columbus, Ohio-----	133	74	-	5	Pueblo, Colo.-----	25	22	4	-
Dayton, Ohio-----	103	65	1	2	Salt Lake City, Utah-----	70	40	2	5
Detroit, Mich.-----	340	183	7	14	Tucson, Ariz.-----	49	23	-	2
Evansville, Ind.-----	40	28	3	1					
Flint, Mich.-----	60	25	-	6	PACIFIC:	1,636	982	40	49
Fort Wayne, Ind.-----	37	20	1	-	Berkeley, Calif.-----	21	11	-	1
Gary, Ind.-----	25	11	-	2	Fresno, Calif.-----	36	23	-	3
Grand Rapids, Mich.-----	44	28	2	1	Glendale, Calif.-----	20	15	1	1
Indianapolis, Ind.-----	123	60	1	10	Honolulu, Hawaii-----	47	27	4	-
Madison, Wis.-----	40	21	4	3	Long Beach, Calif.-----	94	63	2	3
Milwaukee, Wis.-----	124	87	-	3	Los Angeles, Calif.-----	519	293	14	17
Peoria, Ill.-----	25	12	-	3	Oakland, Calif.-----	84	48	-	2
Rockford, Ill.-----	28	20	2	3	Pasadena, Calif.-----	41	31	-	2
South Bend, Ind.-----	45	30	4	1	Portland, Oreg.-----	140	92	5	4
Toledo, Ohio-----	110	67	2	8	Sacramento, Calif.-----	64	38	1	1
Youngstown, Ohio-----	56	26	-	2	San Diego, Calif.-----	134	78	-	5
					San Francisco, Calif.-----	159	86	6	3
WEST NORTH CENTRAL:	731	440	27	42	San Jose, Calif.-----	39	25	1	-
Des Moines, Iowa-----	47	31	5	1	Seattle, Wash.-----	161	100	6	6
Duluth, Minn.-----	23	13	-	1	Spokane, Wash.-----	46	30	-	1
Kansas City, Kans.-----	26	13	1	1	Tacoma, Wash.-----	31	22	-	-
Kansas City, Mo.-----	108	74	2	6					
Lincoln, Nebr.-----	37	19	1	-	Total	11,984	6,766	389	541
Minneapolis, Minn.-----	102	70	1	7	Expected Number	12,284	6,947	391	532
Omaha, Nebr.-----	82	56	1	5	Cumulative Total (includes reported corrections for previous weeks)	391,902	225,840	15,013	17,528
St. Louis, Mo.-----	184	95	6	15					
St. Paul, Minn.-----	68	37	3	2					
Wichita, Kans.-----	54	32	7	4					
Las Vegas, Nev.*	20	12	-	1	*Mortality data are being collected from Las Vegas, Nev., for possible inclusion in this table, however, for statistical reasons, these data will be listed only and not included in the total, expected number, or cumulative total, until 5 years of data are collected.				

†Delayed Report for week ended July 24, 1971
 ††Estimate based on average per cent of Divisional Total

SUMMARY OF REPORTED CASES OF INFECTIOUS SYPHILIS

CASES OF PRIMARY AND SECONDARY SYPHILIS: By Reporting Areas June 1970 and June 1971 - Provisional data

Reporting Area	June		Cumulative Jan. - Jun.		Reporting Area	June		Cumulative Jan. - Jun.	
	1971	1970	1971	1970		1971	1970	1971	1970
NEW ENGLAND.....	49	48	308	275	EAST SOUTH CENTRAL.....	105	71	569	348
Maine.....	2	2	6	9	Kentucky.....	25	11	162	86
New Hampshire.....	1	-	3	2	Tennessee.....	34	11	167	89
Vermont.....	1	-	2	1	Alabama.....	12	16	79	67
Massachusetts.....	23	22	155	155	Mississippi.....	34	33	161	106
Rhode Island.....	6	10	24	31	WEST SOUTH CENTRAL.....	291	421	1,930	1,863
Connecticut.....	16	14	118	77	Arkansas.....	29	24	140	128
MIDDLE ATLANTIC.....	454	405	2,883	2,599	Louisiana.....	56	73	332	363
Upstate New York.....	49	26	239	181	Oklahoma.....	8	9	44	44
New York City.....	285	271	1,932	1,869	Texas.....	198	315	1,414	1,328
Pa. (Excl. Phila.).....	13	20	75	71	MOUNTAIN.....	62	53	287	288
Philadelphia.....	15	19	96	100	Montana.....	-	-	-	1
New Jersey.....	92	69	541	378	Idaho.....	2	-	2	1
EAST NORTH CENTRAL.....	228	207	1,312	1,250	Wyoming.....	-	-	1	-
Ohio.....	41	25	250	187	Colorado.....	7	3	31	26
Indiana.....	25	33	163	232	New Mexico.....	19	13	68	64
Downstate Illinois.....	14	7	71	59	Arizona.....	19	23	107	120
Chicago.....	83	74	420	423	Utah.....	4	-	13	5
Michigan.....	59	59	374	298	Nevada.....	11	14	65	71
Wisconsin.....	6	9	34	51	PACIFIC.....	313	212	1,583	1,201
WEST NORTH CENTRAL.....	33	61	224	286	Washington.....	20	3	76	25
Minnesota.....	3	7	31	48	Oregon.....	-	1	7	14
Iowa.....	4	1	8	9	California.....	290	206	1,475	1,153
Missouri.....	14	42	129	155	Alaska.....	1	1	19	4
North Dakota.....	3	-	5	3	Hawaii.....	2	1	6	5
South Dakota.....	1	1	6	8	U. S. TOTAL.....	1,990	1,888	11,855	10,552
Nebraska.....	2	1	15	13	TERRITORIES.....	71	74	429	509
Kansas.....	6	9	30	50	Puerto Rico.....	59	72	417	490
SOUTH ATLANTIC.....	455	410	2,759	2,442	Virgin Islands.....	2	2	12	19
Delaware.....	2	8	19	71					
Maryland.....	46	25	276	219					
District of Columbia.....	40	49	274	252					
Virginia.....	36	30	191	137					
West Virginia.....	2	4	16	12					
North Carolina.....	33	39	229	267					
South Carolina.....	38	26	153	183					
Georgia.....	135	134	715	647					
Florida.....	123	95	886	654					

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

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The data in this report are provisional, based on weekly telegraphs to CDC by state health departments. The reporting week concludes at close of business on Friday; compiled data on a national basis are officially released to the public on the succeeding Friday.

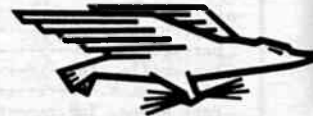
In addition to the established procedures for reporting morbidity and mortality, the editor welcomes accounts of interesting outbreaks or case investigations of current interest to health officials.

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