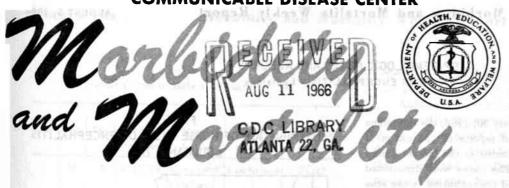
COMMUNICABLE DISEASE CENTER





Vol. 15, No. 31

WEEKLY REPORT

Week Ending August 6, 1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE PUBLIC HEALTH SERVICE

ENCEPHALITIS - TEXAS

During the last week of July and the first week of August 1966, 13 cases of encephalitis are known to have occurred among adults from one area of Dallas. These patients have all been admitted to one hospital in Dallas; they range in age from 35 to 71 years. The area in which the patients reside is one in which flooding occurred earlier in the year, with resultant large mosquito populations. Early serum specimens from 5 of the 13 cases have been submitted to the State Laboratory in Austin. Three of the five specimens showed positive titers for CF-antibody to Group B arboviruses, suggesting that these cases may represent St. Louis encephalitis viral

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infection. An intensive program of control and investigation is underway.

(Reported by Dr. Van C. Tipton, State Epidemiologist, Texas State Department of Health.)

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

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31st WEE	EK ENDED	MEDIAN	CUMULATIVE, FIRST 31 WEEKS			
DISEASE	AUGUST 6, 1966	AUGUST 7, 1965	1961 — 1965	1966	1965	MEDIAN 1961 – 1965	
Aseptic meningitis	89	64	64	1,100	968	952	
	3	5	8	125	140	241	
Encephalitis primary	1	1	2	99	89	160	
all honod-borne & unenocified	38	41		825	952		
TIPE POST-infontions	13	13		532	483		
Hepatitis infectious	43 555	519	682	813 19,548	20,790	26,800	
	844	1,145	1,807	186,154	236,488	380,528	
	10	6	9	53	35	146	
	9	5	8	48	30	121	
Nonparalytic Meningon	THE RESERVE OF	PER VINE	100000000000000000000000000000000000000	0.52	5	H(T) 18-2-2	
Meningococcal infections, Total	43	40	33	2,526	2,167	1,618	
Civilian Military Rubella (German measles)	43	36		2,262	1,988		
Military		4		264	179	100-5 - 096	
Rubella (German measles)	281			40.316			
reptococcal sore throat & Scarlet fever	4,396	4,081	3,446	286,026	265,358	232,721	
Tetanus. Tularemia Typhoid fever	6	12		97	150	Editor and	
Tularemia	2	3	S. COLUMN TO SERVICE AND SERVI	89	148	Physical or	
Typhoid fever Typhus, tick-horno (Phy. Mt. Spotted fever)	12	15	15	206	229	252	
tack-bottle (rky. Mt. Spotted level).	16	15		148	168		
Rabies in Animals.	70 bla	74	66	2,595	2,848	2,542	

NOTIFIABLE DISEASES OF LOW FREQUENCY

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Anthrax: Leptospirosis: Hawaii-2		Botulism: Trichinosis: Conn1	4 58
Psittaconi- Pa1, Ill1, Calif1	187	Rabies in Man: Rubella, Congenital Syndrome:	1
Typhus, murine:	14	Plague:	4

EPIDEMIOLOGIC NOTES AND REPORTS EASTERN ENCEPHALITIS - Louisiana

Through the week ending July 30, 1966, the Louisiana State Board of Health received reports of 135 cases of encephalitis in horses. This number is the largest known to have occurred since 1947. The cases were distributed over 17 parishes, with a marked concentration in the area immediately west and north of the City of New Orleans. Eastern encephalitis virus has been isolated from two brain specimens obtained from horses in Jefferson and Lafayette parishes, respectively. Several additional cases have been confirmed by serological testing. Vaccination of horses is being carried out, and it is estimated that 80 percent of the equine population in the area has been immunized to date.

During the same period of time, eight cases of primary encephalitis in humans have been reported in Louisiana. An intensive search for other cases in the City of New Orleans and in the epizootic area uncovered 16 additional illnesses, suggestive of central nervous system infection. Sera from 12 patients were tested for hemagglutination-inhibiting antibody to the virus of Eastern encephalitis and were negative.

A survey of mosquitoes in the greater New Orleans area revealed a late emergence this year of Mansonia perturbans along the western margin of the City. As a result, this species was unusually prevalent in July. Aedes sollicitans, a suspected vector for human cases of Eastern encephalitis, was generally scarce as a result of mosquito abatement programs in and surrounding Orleans Parish. Samples of the mosquito population and blood specimens from wild birds are currently being tested for the presence of arboviruses.

Figure 1
DISTRIBUTION OF HORSE CASES OF ENCEPHALITIS
LOUISIANA, 1966



In summary, although an epizootic of Eastern encephalitis has been occurring in horses in Louisiana, there is no evidence for a concurrent human outbreak.

(Reported by Dr. Frank Wheeler, Veterinarian, Dr. John M. Bruce, Chief, Epidemiology Section, and Dr. George H. Hauser, Director of Laboratories, Louisiana State Board of Health; and a team from CDC.)

CURRENT TRENDS - PLAGUE

Five cases of bubonic plague in humans have been reported to the Communicable Disease Center to date in 1966. Four of these cases have been confirmed bacteriologically as *Pasteurella pestis* infection, and one remains suspect on clinical grounds. A line listing of the cases is shown in Table 1. The first two cases were previously reported in MMWR, Vol. 15, Nos. 23 and 26 respectively.

The third case of *P. pestis* infection is a 7-year-old Navajo girl who became ill on July 8 with fever, confusion, abdominal pain and a lump in the left groin. At the time of admission to the Indian Health Service Hospital at Tuba City, Arizona, on July 12, she was found to have a temperature of 102°F. and a 1x1½ inch tender lymph node in the left groin. The lymph node was aspirated, and though no organisms could be seen in the smear of

the aspirate, *P. pestis* was isolated from culture of both the aspirate and the patient's blood. The patient has responded to treatment with streptomycin, sulfonamides and tetracycline. Identification of the organism as *P. pestis* was confirmed on July 18 by the San Francisco Field Station of the Communicable Disease Center.

There was no known contact of this patient with field rodents, and no evidence of rodent mortality in the area of her home. The family did raise domestic rabbits, some of which died shortly after the patient. Sera have been obtained from other members of the patient's family and from their domestic dogs. The home of this family was dusted with 5 percent malathion, and similar dusting was carried out in the nearby rodeo grounds where a small ceremonial was soon to take place.

Table 1 Human Cases of Bubonic Plague - 1966

Case	Sex	Age	Admit- ted to Hospital	Resi- dence	Lab- oratory	Remarks
1	М	5	5/23/66	Monument Valley, Utah	Confirmed	Fatal
2	М	72	6/10/66	Rio Arriba County, N. M.	Confirmed	Recovered
3	F	7	7/12/66	Shonto, Ariz.	Confirmed	Recovered
4	F	adult	7/19/66	Santa Fe, N. M.	Suspect	Recovered
5	F	14	7/26/66	Pecos, N. M.	Confirmed	Recovered

A suspect case of bubonic plague was reported by the New Mexico State Department of Health on July 20, 1966. The patient, an adult female, was admitted to a hospital in Santa Fe on July 19 with chills and a temperature of 104°F. At that time flea bites were noted on her left leg, and she complained of pain in the left groin. Physical examination revealed enlarged nodes in the left femoral region. The patient was treated immediately with chloramphenicol, and tetracycline was added to her treatment regimen the following day. The patient had a good response to therapy and subsequently has completely recovered from her illness. This case could not be con-

firmed bacteriologically. Acute and convalescent sera will be tested for the presence of plague antibodies.

Although the source of illness has not been identified, the patient is known to have handled a dead squirrel in the yard of her house 1-5 days prior to illness. In addition, dead chipmunks have been found on her property, and the patient had recently cleaned chipmunk nests from rocks in this area. Numerous rodents have been collected, and appropriate studies of these animals are in process.

The fifth case of plague to occur in 1966 was reported by the New Mexico State Department of Health on July 26, 1966. The patient is a 14-year-old female who lives near the town of Pecos, New Mexico, in San Miguel County. The child first felt ill on the evening of July 24, and by the next day had developed fever, headache, nausea, vomiting, malaise and pain in the right groin. She was admitted to the hospital on July 26 with a temperature of 105.8° F., an enlarged lymph node in the right femoral region, and lesions on the right foot resembling insect bites. Blood cultures were taken prior to treatment with tetracycline. She has responded well to therapy. Organisms have been isolated from the blood culture and were identified as $P.\ pestis$ by the New Mexico State Department of Health Laboratory.

Two days before her illness, the child walked in the hills around her home, an area in which there are many rodents. Studies of the area are being carried out by the New Mexico State Department of Health.

(Reported by Dr. Dean Tirador, Chief, Community Health Services, Window Rock Field Office, Division of Indian Health, Window Rock, Arizona; and Dr. T.H. Tomlinson, Associate Director, and Mr. Bryan Miller, Chief, Vector Control Division, New Mexico State Department of Health.)

ANNUAL SURVEILLANCE SUMMARY ENCEPHALITIS - 1965

For the year 1965, a total of 2,703 cases of encephalitis including 173 deaths were reported to the Neurotropic Viral Diseases Unit of the Communicable Disease Center. These cases are shown by etiology in Table 2. Over one-half of the cases were encephalitis of unknown etiology; 36 percent of the cases were post-infectious encephalitis; 11 percent of the cases were caused by arthropod-borne viruses.

All encephalitis cases reported for the years 1962-65 are shown by month in Figure 2. A characteristic seasonal pattern was again seen in 1965, with a small increase in incidence in the spring and a large increase in the late summer. The numbers of reported cases by etiologic group for each month are shown in Figure 3. The highest incidence of post-infectious encephalitis occurred during the spring, whereas the cases due to the arthropod-borne

viruses peaked during August. The composite character of the distribution of encephalitis with no known etiology suggests that many cases would fall into the post-infectious and arbovirus categories if etiology were specified.

POST-INFECTIOUS ENCEPHALITIS

As in previous years, the most frequent of the encephalitides traditionally classified in the post-infectious group was mumps, followed by measles and varicella. The relative frequencies of the commonly reported post-infectious encephalitides are compared for the years 1960 through 1965 in Table 3. Figure 4 shows that encephalitis associated with mumps, measles and varicella all have their period of greatest incidence in the spring.

Of encephalitides of low frequency, there were 19 cases of herpes simplex, 11 of which were fatal, reported

from nine States. Eight cases of encephalitis following smallpox vaccine were reported in 1965, but there were no fatalities. North Carolina reported one fatal case of encephalitis in a 3-year-old girl who had received yellow fever vaccine; the 17-D strain of yellow fever virus was isolated from the brain by Laboratory Branch, CDC. Influenza accounted for 17 cases of encephalitis; lymphocytic choriomeningitis — 8 cases; herpes zoster — 2 cases; and adenovirus — 2 cases.

Table 2
Etiology of 2,703 Cases of Encephalitis
Reported to the CDC, United States, 1965

less seliks where the less	No. of	Cases	Percent	of Total
Post-infectious	igrallabit	981	اللمواكرة كالأ	36.3
Mumps	634		23.5	191191
Measles	171	eda mi si	6.3	
Varicella	112	eron son	4.1	
Influenza	17	disputs no	0.6	
Herpes simplex	19	alitable (de	0.7	
Post-vaccinal	9	mile (ski)	0.3	Adjoins
Lymphocytic			station in	
choriomeningitis	8	Della sel	0.3	
Rubella	7		0.3	
Herpes zoster	2		0.1	
Adenovirus	2	SumaDe	0.1	
Arthropod-borne	A TELL	297	the state	11.0
WEE	172		6.4	
California	59		2.2	
SLE	58		2.1	
EEE	8	o large y	0.3	
Etiology Unknown	1000 2	1,425		52.7
Total		2,703		100.0

Figure 2
REPORTED CASES OF ENCEPHALITIS BY MONTH
UNITED STATES, 1962 -- 1965

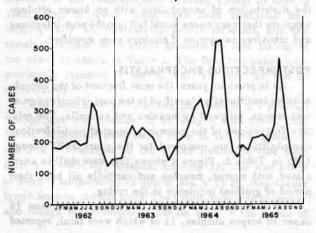


Figure 3
REPORTED CASES OF ENCEPHALITIS BY ETIOLOGIC
GROUP AND MONTH OF ONSET, 1965

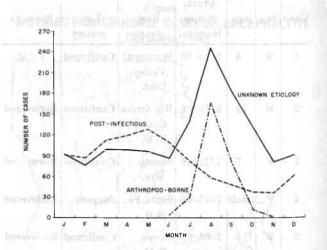
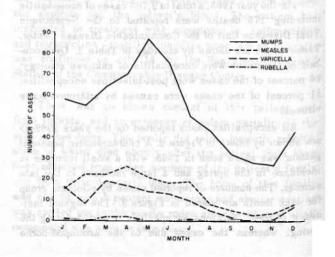


Table 3
Cases of Commonly Reported Post-Infectious
Encephalitis by Etiology, 1960-1965

iliTolin	Table of	Etiology											
Year Mump	Mumps	Measles	Vari- cella	Rubella	Influenza	Post- Vaccinal							
1960	700	299	95	HIPE25 160	24	and the							
1961	402	276	75	Dynalding I	8	8							
1962	358	337	76	Del Del	40	7							
1963	671	239	84	offet en	30	3							
1964	932	300	106	59	14	8							
1965	634	171	112	7	17	9							

Figure 4
POST-INFECTIOUS ENCEPHALITIS ASSOCIATED WITH
MEASLES, MUMPS, VARICELLA AND RUBELLA
BY MONTH OF ONSET, UNITED STATES, 1965



ARTHROPOD-BORNE ENCEPHALITIS*

A total of 297 confirmed or presumptive cases of arthropod-borne encephalitis with onsets of illness in 1965 has been reported. By comparison with the previous 10 years this was a year of intermediate arbovirus activity; however, the 172 cases of Western encephalitis represent

the largest total of WE cases reported since encephalitis surveillance began in 1955. California encephalitis was recognized more frequently in 1965 than previously. The geographic distribution of all arbovirus encephalitis cases is depicted in Figure 5. The marked seasonal incidence of arbovirus encephalitis is shown in Table 4.

Figure 5
HUMAN CASES OF ARTHROPOD BORNE ENCEPHALITIS BY STATE, 1965

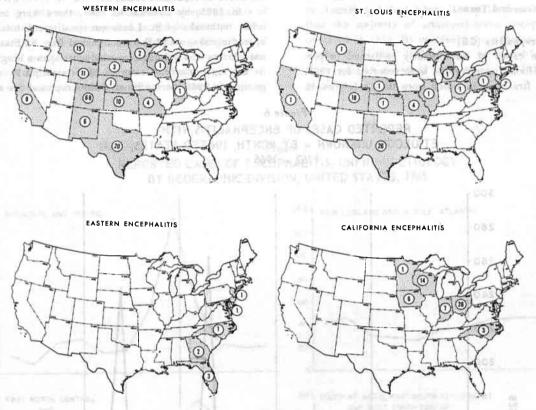


Table 4

Confirmed and Presumptive Human Cases of Arthropod-borne Encephalitis by Month of Onset, 1965

	Number of Cases									
Month	Etiology									
	Western E.	S.L.E.	Eastern E.	California	Total					
anuary	0	0	0	0	0					
ebruary	0	0	0	0	0					
arch	0	0	0	A A 0	0					
pril	0	0	0	0	0					
ay	0	0	0	0	0					
ine	2	0	1	1	4					
ıly	16	3	4	7	30					
ugust	114	26	2	23	165					
eptember	30	25	0	24	79					
ctober	3	4	1	3	11					
ovember		0	o o	0	1					
ecember	0	0	0	0	0					
nknown	6	0	0	1	7					
Total	172	58	MELCH 8 2 ACLM	59	297					

^{*}Cases of arthropod-borne encephalitis have been classified into confirmed and presumptive categories, both of which are included in the final case count,

Western Encephalitis (WE)

The most frequently demonstrated arbovirus causing human encephalitis in 1965 was WE. As compared to 64 laboratory confirmed or presumptive cases reported in 1964, there were 172 such cases in 1965 in association with an extensive epidemic in several of the north central and mountain states. People of all ages were affected; there were four deaths due to WE. WE virus activity in humans was documented in 14 States, and sizable outbreaks occurred in Montana, North Dakota, Wyoming, Colorado, Kansas and Texas.

California Encephalitis (CE)

Fifty-nine cases of serologically confirmed or presumptive California encephalitis were reported for 1965. This was the first year in which more than a few cases due to this virus were recognized. Cases were reported from six States: Ohio, Indiana, Wisconsin, North Carolina, Iowa and Minnesota. The cases in Ohio occurred in 16 counties. All but one of the cases of California encephalitis occurred in persons under 20 years of age. Males were affected more than females, probably due to exposure in heavily wooded areas. There were no fatalities due to California encephalitis.

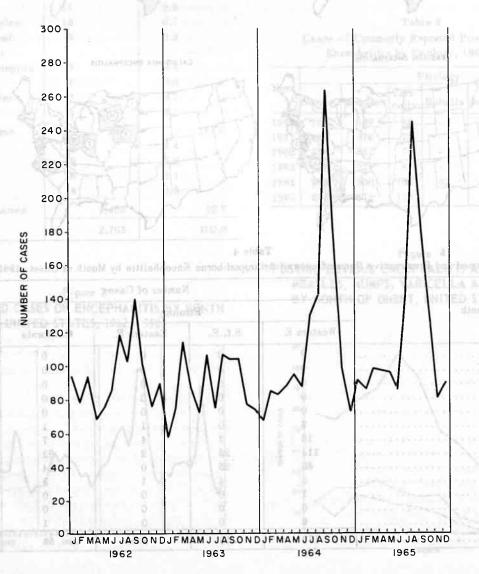
St. Louis Encephalitis (SLE)

In 1965, by contrast to 1964, there were no major urban outbreaks of St. Louis encephalitis. A total of 58 sporadic cases of SLE were reported from 12 States, but only Texas and Colorado reported more than a single case in any one county. Cases of SLE occurred in all age groups. In 1965 there were no deaths reported due to SLE.

Figure 6

REPORTED CASES OF ENCEPHALITIS WITH
ETIOLOGY UNKNOWN — BY MONTH, UNITED STATES,

1962 — 1965



Eastern Encephalitis (EE)

Eight cases of Eastern encephalitis, including four fatalities, were reported in 1965 from five States: Florida,
Georgia, Maryland, New Jersey and North Carolina. EE virus was isolated from the brain of two children in Georgia, ages 6 and 7 years, and from the brain of a 74-year-old female in Maryland. Outbreaks of EE in horses occurred 7 illustrates the monthly in States along the eastern seaboard.

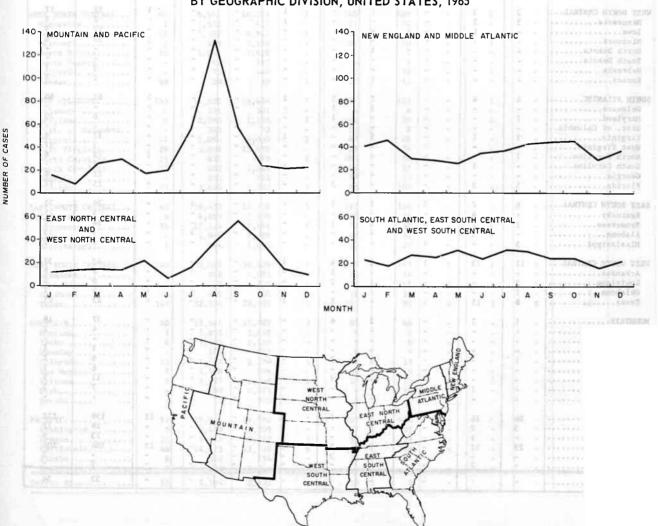
ENCEPHALITIS OF UNKNOWN ETIOLOGY

During 1965 more than 1,400 cases of encephalitis of unknown etiology were reported to the Neurotropic Viral Diseases Unit, accounting for approximately 50 percent of all reported encephalitis cases. Every State except Indiana and New Hampshire reported cases in this category. Notification of deaths in this classification was incomplete;

nonetheless, the 97 cases reported represented a death-tocase rate of 6.8 percent.

In 1964 and 1965, all cases of encephalitis of unknown etiology showed an abrupt seasonal peak in late summer (Figure 6). This late summer peak is similar to that characteristic of arthropod-borne encephalitis. Figure 7 illustrates the monthly incidence of encephalitis of unknown etiology in 1965 for four regions of the U.S. A sharp increase in incidence of encephalitis of unknown etiology in the Mountain and Pacific divisions is evident in August and September; it was in these two divisions that the majority of arthropod-borne encephalitis cases occurred in 1965. By contrast, along the eastern seaboard where there was little human arthropod-borne disease, there was no seasonal peak of encephalitis of unknown etiology.

Figure 7
REPORTED CASES OF ENCEPHALITIS, UNKNOWN ETIOLOGY
BY GEOGRAPHIC DIVISION, UNITED STATES, 1965



CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

AUGUST 6, 1966 AND AUGUST 7, 1965 (31st WEEK)

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California	23	11		3	5			100	1	23	100
Alaska	- 23	-		3	2	2		1	12	108	108
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Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

AUGUST 6, 1966 AND AUGUST 7, 1965 (31st WEEK) - CONTINUED

P DOG	MEASLES (Rubeola)				COCCAL INFE	ECTIONS,		POLIOM	YELITIS		RUBELLA
AREA					TOTAL		Tot	al	Pa	ralytic	KUBELLA
MILA		Cumulative			Cumula	tive		1 -41	7.23	Cumulative	
546	1966	1966	1965	1966	1966	1965	1966	1965	1966	1966	1966
UNITED STATES	844	186,154	236,488	43	2,526	2,167	10	6	9	48	281
NEW ENGLAND	19	2,203	36,615	1	113	110		1 -25			30
Maine	2	194	2,772	1 2	9	16		4 29.5	*		10
New Hampshire	8	75	381		9	6	4.	- 500	- 1	100000	-
Vermont		221	1,245	-	4	6	10 -	-735	-	1.0.00	4
Massachusetts	8	761	19,191	1	44	35	-	11 - 579:3	-	1.3004.03	6
Rhode Island Connecticut	1	72 880	3,892 9,134		12 35	14 33	1	16	-	I STATE OF	2
	1	000	7,134	1.3 15	35	23	1	7.11	-	j - 1 Theal	8
MIDDLE ATLANTIC	54	17,836	14,348	11	297	285	XII CO	1	1.00	4	35
New York City	13	8,223	2,215	2	41	50	1		- 1		9
New York, Up-State.	34 2	2,447	4,021	3	84	77	-1 1-	190	- 1	10417-01-3	26
New Jersey	5	1,844 5,322	2,477 5,635	5	87 85	76 82	-	1	1 -	100000000	14.00
FACT NORTH CENTRAL	225	67 747	E/ 500		201	207			. 3		1
EAST NORTH CENTRAL	235	67,747 6,315	54,506 8,785	9 5	391 107	297 79	1	0.12	1 -	L.J. Notice	86 5
Indiana	17	5,615	1,784	1	66	39		1 25		144	5
Illinois	14	11,244	2,552	1	75	80	1	1 380		m (111) agi	10
Michigan	116	13,983	26,064	2	104	64	-	130	11 - 7	p. [15
Wisconsin	82	30,590	15,321	-	39	35		1 -77	- 1		51
WEST NORTH CENTRAL	44	8,647	16,321	2	140	109	-	2	1	1	1
Minnesota	1	1,638	621		33	22	T 5	_		1	1
Iowa	26	5,298	8,962	1	22	7	-	Page 1	- 1	750000000000000000000000000000000000000	-
Missouri	1	529	2,559	1 1-16	54	50	-	1	- 1		11.5
North Dakota	16	1,067	3,618		9	7	-	900	1 · 1	-	0.00
South Dakota		40	112	1 1-3	4	2	·	1.00	-	N. C	1
Nebraska Kansas	NN	7.5 NN	449 NN	1	8 10	10 11		1	-	Section 1	Sel; sale
		5 11		3 11 1	1 4 0	Service I		* 60		Separation of the	1000
SOUTH ATLANTIC	145	14,851	24,454	7	421	422	(Se = 5)	1	-	1	27
Delaware	7	251 2,090	501	2	4 43	6 39	En de	1		meno-ted	2
Dist. of Columbia		380	1,125	-	11	8	philips.	100		12000012753	_
Virginia	21	2,090	4,000	2	47	48	10	dian.			3
West Virginia	29	5,098	13,438	18 TL 6	23	24	-	- 100	17 - D	(Circulate)	10
North Carolina	21	431	375	2	104	82	-		-	C. Laster	of to use
South Carolina	10	652	1,005	- H	46	57	1	1 -	- 1	in the lines	Street
Georgia. Florida.	- 57	233 3,626	612 3,325	1	57 86	53 105	100	1 25	-	1	12
The second second					1 1 5704			15			10.14
EAST SOUTH CENTRAL	63	19,433	13,538	2	217	169	1	1025	13 - 22	3	43
Kentucky	4	4,665	2,406	-	80	68	1 3 -	1 200	-	-	23
Tennessee	58	12,124	7,749 2,288	2	72 46	50 31	4	1,000		1	19
Alabama	1	1,660	1,095		19	20	Tradition	1 3	1 - 1	2	1
	150	00.000	20. 220		359	297	9			40	7
WEST SOUTH CENTRAL	152	23,820 966	30,339 1,081	1 -	33	14	9	2	9	42	30E y 1
Louisiana	5	98	102	11 - 3	136	166	1	41 378	1	1	124771
Oklahoma		470	201	1. 1. 3	18	18	1-	235	-	î	941991
Texas	147	22,286	28,955	1	172	99	8	2	8	40	1
MOUNTAIN	40	11,664	19,407	3	81	68			_ 1	-	29
Montana	1	1,801	3,668		4	2	ATTLEMENT		41 - 14	Table Inch	29
Idaho	6	1,520	2,739	1 1 - 2	5	8	120	-5/2	11 -31	100	1
Wyoming	- I	144	841	1 - 1	6	5	700	- 13	- 1	1	
Colorado	13	1,231	5,570	1	42	13		100	-		10
New Mexico.	7	1,108	674	-	10	10		181	- 0	-1-1-58	
Arizona	9	5,227	1,239	2	10	16 12	1-19	14	11 21	A sample	18
Nevada	- 4	590 43	203	-	4	2		15	_		1
PACIFIC	0.2	19,953	26,960	7	507	410					
Washington	92 5	3,458	7,205	1 2	37	32	1 1-3		1 :	1	29 15
Oregon.	31	1,655	3,157	1	33	29	T	-	17 - 1	Carlotte and the	5
California	46	14,375	12,730	6	418	326	1. 2.	10.25	1 4 - 16	1-1-1-10	8
Alaska	8	340	154	1 1 - 2	15	16		-	-		1
Hawaii	2	125	3,714		4	7		1000	1 1 = =	-	-3-11-1-5
Puerto Rico	52	2,504	2,231		10	5		-	-	1	1

Morbidity and Mortality Weekly Report

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

AUGUST 6, 1966 AND AUGUST 7, 1965 (31st WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETA	ANUS	TULA	REMIA	TYP	HOID	TICK-	FEVER BORNE Spotted)		ES IN MALS
AREA	1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966	1966	Cum. 1966
UNITED STATES	4,396	6	97	2	89	12	206	16	148	70	2,595
NEW ENGLAND	616	1 .	2	St. a.	1	2 50	4	1	2	4	62
Maine	60	1		12 =	12			1	2	1	22
New Hampshire	32		20	- 0		1.0	2 3	1		2	21
Vermont	33	_5	1.4	1 4	- 1	1 88	401 J 1			1	17
Massachusetts	86		2	1 - 14	1	5 1-15	1		1	-Tet200	2
Rhode Island	84		-		E 1-13		4.5	-		46 (201)	110012
Connecticut	321		-	- 800	-	- "	3	1	1	-10-2	Detwin
MIDDLE ATLANTIC	186		11	110	- H	1 - 22	35	4	32	Dire	173
New York City	2	-	4		- 1	7 - 8	1.7	100		11/15	
New York, Up-State.	181		2	11.5	9 1- 9	- [17	/	1	12		162
New Jersey Pennsylvania	NN 3	2	1 4	1 142	1 : 1	. 00	6	1 2	10 10	22.50	11
EAST NORTH CENTRAL	315	1.2	7	59 168	12	2	28		11	4	355
Ohio	25		3	1.12	3	1	13	1-0-3	6	2	
Indiana	66	1 5	1	11 - 10	3	1	2	100			79
Illinois	43	1. 2	1 2	1001	5 -				5	1 -1 -1	37
Michigan Wisconsin	112 69	4.5	-	- 400	1	1			7 E.	1	29 34
WEST NORTH CENTRAL	156	-	6	1941	8	- 60	16	ers 1 6	2	21	591
Minnesota	13 0 H 5 F	-	1	-	- 1 7	- 15		9-50		5	136
Iowa	33	-	1	1	1- 15 2	- 12	-			4	124
Missouri	5	-	4	10	3	- 17	8	1 1	1	5	183
North Dakota	109		-	- 27	-	- 1 miles	1	1		2	21
South Dakota	8	17 300	0.7		2	- 1.00		1 - 11-0		5	61
Nebraska Kansas	1	1 5	10	10.	2	- 1,0	1 2	1 1	1		17 49
SOUTH ATLANTIC	381	2	25	2 1 1 HO	9	1	38	7 0	68	12	333
Delaware	3	-	-	_	100	1	1	I .	1		medial
Maryland	35	1	2	- 3	1	1-95	7	4	20		1
Dist. of Columbia		-	1 -	VI =35	C. II- 8	7 - 5	2	4			1910
Virginia	81	-	4	-	2	1 000	8	3	20	2	189
West Virginia	169		-	1 - 11	1		1		F 41 (-10)	1	40
North Carolina	9	1	3	1 - 1	2	- 116	3		15	71-07	3
South Carolina	6	-	1	1 193	1	- 1	U	S - 1 0	5	- 1	CI
Georgia	77	1	6	1 1	2	- 13:	1 9	1 's	7	5	61
EAST SOUTH CENTRAL	710	11 -	11	4 KH	17	4	25	2 3	23	15	329
Kentucky	6	1 2	1	1 4	2	1 69		2	4	8	
Tennessee	646	11 2	1	8.82	9	3	11		15	7	
Alabama	45	1 2	6	1 200	4	0.60		Notice Inc.	4	na Granni	12
Mississippi	13	-	3	-161	2	1	5				3
WEST SOUTH CENTRAL	481	2	20	2	34	2	23			8	528
Arkansas	2	1 5	2	2	26	-	1		2	1	57
Louisiana	2.301 2.3	1	5	1 -00	3	2	/		100	1	25
Oklahoma Texas	479	1	1 12	177	1	1 76	8 7		4	1 5	138 308
MOUNTAIN	1,008	1	1	1 13	5	1 704		1 31. B	3	4	54
Montana	16	H	-	1 -8	2	980	3 11		-1400		7
Idaho	32	11 3	1 3-1	1.5	-	1 - 52	F - 9		-1-1-	1000	
Wyoming	15	1 3	1.5	1 - 6.	1	- 52		1 - 11		-19-1-	1000
Colorado	641	H E.	1	3 50		1.65			2	27452	8
New Mexico	180	5	67	1 Pr	1 1	1	1 -		1	3	11
Arizona Utah	73 51	3	18	1 1 16	1 1	1 1	2 3		1	1	26
Nevada	-	1 3	13.1	19-1	11-	-2.00					2
PACIFIC	543	2	14	3102	3	2	28	187 2	III I	2	170
Washington	59	N 6	1.00	1 -35	Elii	1	11	3/5 1 1 1 5	-120	133.4	5
Oregon	18	1 -	1	1 -15		- 151	1	2-12	10	100 -	2
California	389	2	13	1-67	3	1	14		1	2	
Alaska	46	ll i	-	1.15	7.14	1-01		1	E - 1-17 U	221-22	- KissiA
Hawaii	31					-	2	*		-	-
Puerto Rico		-	31	10.	7 (5)	1588	6	1 2 1 1 2		- T	8

Week No.

DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED AUGUST 6, 1966

31

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

THE RESERVE OF THE PARTY OF THE	A11 C	auses	Pneumonia	Under	makedier die bern	A11 C	auses	Pneumonia	Unde
Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	l yea All Cause
FEW ENGLAND:	651	387	23	40	SOUTH ATLANTIC:	1,073	555	50	54
Boston, Mass	229	133	10	15	Atlanta, Ga	116	59	4	4
Bridgeport, Conn	42	26 18	= [3	Baltimore, Md	226	120	8	10
Cambridge, Mass	28 25	19	OTHERT	1	Charlotte, N. C	53	28	2	3
Fall River, Mass Hartford, Conn	57	33		6	Jacksonville, Fla	57	22	4	6
Lowell, Mass	17	7	1	1	Miami, Fla Norfolk, Va	95	46	eria siloi	4
Lynn, Mass *	20	14	1	1	Richmond, Va	62 70	34	4	5
New Bedford, Mass	23	17	1	1	Savannah, Ga	21	31 7	3	5
New Haven, Conn	45	27	1	2	St. Petersburg, Fla	69	58	4	1
Providence, R. I	44	25		4	Tampa, Fla	61	32	9	3
Somerville, Mass	10	5	-	-	Washington, D. C	196	95	5	9
Springfield, Mass	31	17	2	2	Wilmington, Del	47	23	6	3
Waterbury, Conn	22	9		7	TARE COVERY OFFICE		SA WINE	THE YE	2617,674
Worcester, Mass	58	37	7	4	EAST SOUTH CENTRAL: Birmingham, Ala	632	361	22	30
IDDLE ATLANTIC:	2,867	1,580	108	166	Chattanooga, Tenn	83 55	48 31	2 2	3
Albany, N. Y	45	17	1	3	Knoxville, Tenn	39	21	3	3
Allentown, Pa	26	15	-	1	Louisville, Ky	143	87	12	7
Buffalo, N. Y	160	86	5	12	Memphis, Tenn	140	72	100	8
Camden, N. J	40	21	2	3	Mobile, Ala	44	24	off president	3
Elizabeth, N. J	36	18	3	1	Montgomery, Ala	40	28	2	2
Erie, Pa	44	25	-	. 2	Nashville, Tenn	88	50	1	4
Jersey City, N. J	- 55	26	2	3	LUDGE COURT CRUENCY				1.0
Newark, N. J New York City, N. Y	70	32	3	16	WEST SOUTH CENTRAL:	1,159	588	36	101
Paterson, N. J	1,449	778	56	78	Austin, Tex	54	29		6
Philadelphia, Pa	26 420	16 245	3 11	3 20	Baton Rouge, La Corpus Christi, Tex	41	22	2	3
Pittsburgh, Pa	172	90	4	10	Dallas, Tex	25	11		3
Reading, Pa	41	29		2	El Paso, Tex	150	71	3	10
Rochester, N. Y	82	48	7	4	Fort Worth, Tex	34 60	15 36	1	3
Schenectady, N. Y	23	15	2	1	Houston, Tex	220	99	8	22
Scranton, Pa	42	33	3	2	Little Rock, Ark	49	24	4	5
Syracuse, N. Y	55	34	W 450 BASE	3	New Orleans, La	193	83	5	28
Trenton, N. J	31	21	F 150 HG	1	Oklahoma City, Okla	89	50	1	5
Utica, N. Y	21	13	3	1	San Antonio, Tex	137	82	6	7
Yonkers, N. Y	29	18	3		Shreveport, La	59	34	4	5
AST NORTH CENTRAL:	2,390	1,281	55	147	Tulsa, Okla	48	32	1	1
Akron, Ohio	53	33		6	MOUNTAIN:	371	211	16	22
Canton, Ohio	42	20	2	4	Albuquerque, N. Mex	27	17	15	23
Chicago, Ill	711	362	26	43	Colorado Springs, Colo.	25	17	1 2	3
Cincinnati, Ohio	165	92	2	8	Denver, Colo	98	56	4	5
Cleveland, Ohio	219	101	-	10	Ogden, Utah	19	13	i	ı i
Columbus, Ohio	121	63	-	11	Phoenix, Ariz	92	55	4	5
Dayten, Ohio	79	39	1	7	Pueblo, Colo	17	9	1	1
Detroit, Mich	304	168	8	17	Salt Lake City, Utah	53	28	. 1	1
Evansville, Ind	32	20	1	2	Tucson, Ariz	40	16	1	5
Flint, Mich Fort Wayne, Ind	31	12	- 2	1	PACIFIC:	1 506	006	411	
Gary, Ind	38 31	22 15	2 2	2 4	Berkeley, Calif	1,506 25	886	25	63
Grand Rapids, Mich	55	32	6	5	Fresno, Calif	52	25		,
Indianapolis, Ind	154	86	1	12	Glendale, Calif	31	20	7 BAN =	4
Madison, Wis	28	15	<u> </u>	-	Honolulu, Hawaii	36	13	1-0	1054
Milwaukee, Wis	110	70	2	3	Long Beach, Calif	58	43	2	2
Peoria, Ill	22	12	1	3	Los Angeles, Calif	449	260	6	24
Rockford, Ill	24	17	13-	2	Oakland, Calif	88	52	25/1/10/10	3
South Bend, Ind.	28	19	-	-	Pasadena, Calif	46	30	and have be	2
Toledo, Ohio	97	52	-	7	Portland, Oreg	90	55	1 1 1 1	3
Youngstown, Ohio	46	31	1		Sacramento, Calif	68	38	1 = 1	2
EST NORTH CENTRAL:	726	140	24	4.0	San Diego, Calif	104	63	3	6
Des Moines, Iowa	736	449	34	43	San Francisco, Calif	197	103	4	4
Duluth, Minn.	55	36 7	1	2	San Jose, Calif Seattle, Wash	34 138	92	1	4
Kansas City, Kans	40	21	2	3	Spokane, Wash	46	29	4	5
Kansas City, Mo	109	63	3	7	Tacoma, Wash	44	24	2	3
Lincoln, Nebr	25	19	3		· · · · · · · · · · · · · · · · · · ·	100 000			
Minneapolis, Minn	85	54	3	2	Total	11,385	6,298	368	667
Omaha, Nebr	73	46	1	9					
St. Louis, Mo	229	135	12	15			otals		
St. Paul, Minn	70	45	3	2	including report	ed correct	ions for p	revious we	eks
Wichita, Kans *	41	23	6	3	And the second second second				
				7.0	All Causes, All Ages			398,6	78
					All Causes, Age 65 and			230,1	

CURRENT TREND MALARIA DEATH IN AMERICAN CIVILIAN

The first civilian death associated with malaria in 1966 has been reported to the Communicable Disease Center. A Negro minister from Florida and his wife arrived in Liberia, West Africa, on June 20. They stayed in Monrovia for 2 days before proceeding to a small village 18 miles from the capital where they remained until July 2. During their trip they took no malaria prophylaxis and no precautions against mosquitoes.

On July 12 while enroute to the United States by ship, the minister complained of weakness and feverishness. After the ship docked in Baltimore, Maryland, the couple travelled by train to Ocala, Florida, arriving on July 17. During the entire week the minister remained alert but was tired and feverish; suddenly on July 18 he died.

Postmortem examination demonstrated a heavy infection with *Plasmodium falciparum*; parasites were found in all organs, including sections of brain. A peripheral blood smear from his wife revealed that she was also infected with *P. falciparum*; she has responded to treatment.

(Reported by Dr. E. Charlton Prather, Director, Division of Epidemiology, Florida State Board of Health; Dr. James B. Stapleton, Director, Marion County Health Department, Ocala, Florida.)

QUARANTINE MEASURE INTERNATIONAL CERTIFICATES OF VACCINATION PHS-731

The Division of Foreign Quarantine of the USPHS has been informed that a large number of persons traveling abroad from the United States fail to have their International Certificates of Vaccination or Revaccination against Smallpox and Cholera properly completed and validated before departure.

In order to be valid, all such certificates for small-pox and cholera vaccination require the "Approved Stamp" of the Health Officer of the area in which the vaccination has been performed. The certificate should bear the name and the signature of the person being vaccinated, his sex, date of birth, and the signature of the physician who did the vaccination. Any amendment of this certificate, or erasure, or failure to complete any part of it, may render it invalid and may subject the traveler to surveillance or detention by quarantine authorities at the point of arrival abroad or at U. S. ports of entry.

In areas in the United States where there is no local Health Officer, certificates may be sent or taken to the State Health Officer for validation. This validation is a requirement of the International Sanitary Regulations. THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 15,600, IS PUBLISHED AT THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGÍA.

CHIEF, COMMUNICABLE DISEASE CENTER CHIEF, EPIDEMIOLOGY BRANCH ACTING CHIEF, STATISTICS SECTION

DAVID J. SENCER, M.D. A.D. LANGMUIR, M.D. IDA L. SHERMAN, M. S.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY: COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

