CENTER FOR DISEASE CONTROL

Morbidity and Mortality

WEEKLY
REPORT
For

Week Ending July 25, 1970

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

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EPIDEMIOLOGIC NOTES AND REPORTS INFECTIOUS HEPATITIS — Hatfield, Arkansas

Between May 13 and July 19, 1970, 77 cases of infectious hepatitis (Figure 1) occurred among residents of Polk County, Arkansas, and adjacent counties in Arkansas and Oklahoma. The patients included 57 men and 20 women; mean age was 23.8 years (Table 1). All patients had sympotoms characteristic of viral hepatitis including jaundice; no attempt was made to identify anicteric cases. Fifteen patients were hospitalized; no deaths occurred.

All patients lived, worked, or ate meals in Hatfield, a small town in Polk County with a population of 337. Of the 77 patients, 71 (91 percent) had eaten in one particular Hatfield cafe; the other six cases occurred among family members or close contacts of this group. For comparison, a group of 455 non-ill residents of Hatfield and the surrounding countryside were surveyed concerning eating places they patronized; 100 (22 percent) had eaten

CONTENTS

Epidemiologic Notes and Reports	
Infectious Hepatitis - Hatfield, Arkansas	28
Follow-Up Skunk Rabies - Oregon and Washington	282
Current Trends	
Aseptic Meningitis - Florida	283
Enterovirus Surveillance - January-June 1970	284
International Notes	
Smallpox - Brazil	285
Quarantine Measures	287

JUL 31 1970

at this cafe. Furthermore, of the 71 patients who had patronized the cafe, 66 recalled drinking the water; the Atother five were ancertain of their contact with water.

The cafe had opened for business on April 13, 1970. It specialized in sandwiches and short orders and catered
(Continued on page 282)

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

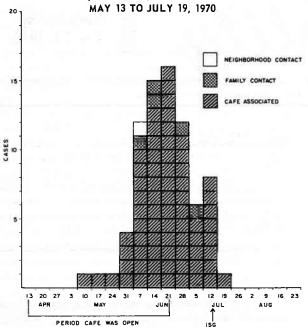
	29th WEE	EK ENDED	MEDIAN	CUMULAT	TIVE, FIR	ST 29 WEEKS
DISEASE	July 25, 1970	July 19, 1969	1965 - 1969	1970	1969	MEDIAN 1965 - 1969
Septic meningitis	169	48	50	1,326	993	993
rucellosis	3	11	6	116	123	123
ncephalitis, primary:	1	1	1	190	81	87
"Ithropod-horne & unspecified	38	24	33	636	555	748
"Cephalitis post-infectious	12	4	13	274	185	454
lepatitis infectious	134 1,050	100 823	641	3,977 30,908	2,867 25,849	22,744
uraila	40	74	28	1,925	1,497	1,098
rusies (filheola)	476	329	356	37,838	19,049	56,052
YuingOcoccal infections total	52	32	40	1,643	2,132	2,081
orvinan	39	30	36	1.474	1.935	1,908
WILLIATV	13	2	3	169	197	173
	797	901		70,946	63,806	0.00
	-	_	2	15	5	28
	_	_	2	15	5	24
	393	580		47,542	46,565	(4) (6) (4
- calling	1	3	5	61	74	88
	7	1	5	68	80	92
	7	3	11	143	149	174
	22	25	18	175	227	133
Rabies in animals	60	71	71	1.776	2 082	2.441

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

A	Cum.		Cum.
Anthrax:	1	Psittacosis: N.J1	19
Botulism: Leprosy: Cal -2 Ore -1	5	Rabies in Man:	
		Rubella congenital syndrome: Cal2	
Plague:	40	Trichinosis:	59
ague;	6	Typhus, murine: Ohio-2, Tex1	23

INFECTIOUS HEPATITIS - (Continued from front page)

Figure 1
77 CASES OF INFECTIOUS HEPATITIS BY DATE OF ONSET
POLK COUNTY, ARKANSAS, AND ADJACENT COUNTIES



to a largely male working clientele. Although sanitary conditions of the cafe appeared excellent, the water supply was found to be contaminated with coliform organisms. Fluorescein dye placed in the cafe's toilet on June 25 was demonstrated in tap water on July 15.

IMMUNIZATION CAMPAIGN

Several patients had only one contact with Hatfield, and without exception, the contact was limited to the involved cafe: A 19-year-old Oklahoma man visited the cafe on June 6, while his aunt kept an appointment at a nearby beauty shop; he ate only a boiled egg and drank a glass of water and on July 1 had onset of hepatitis. Three Oklahoma men, while baling hay in Hatfield on June 13, ate lunch and drank ice water at the cafe; they made no return visits to this area and developed hepatitis on July 13, 17, and 19, respectively. A 35-year-old man from outside Hatfield ate at the cafe twice on May 29, while his wife was

Table 1 77 Cases of Infectious Hepatitis by Age and Sex Polk County, Arkansas, and Adjacent Counties May 13 to July 19, 1970

Age Group (Years)	Male	Female
0-4	1	0
5-9	1	2
10-14	7	4
15-19	13	7
20-24	14	2
25-29	4	2
30-34	6	0
35-39	6	0
40-44	1	1
45-49	1	1
50-54	2	0
55-59	0	0
60-64	1	1
Total	57	20

visiting relatives in Texas; that same evening he departed for Texas and did not return to Hatfield until he developed hepatitis on June 22. A young married couple from a nearby town breakfasted at the cafe on May 30, the morning after their wedding; this was their only visit to Hatfield, and they developed hepatitis on June 15 and 21, respectively. Persons with single exposures visited the cafe from May 1 to June 13.

Control measures included the voluntary closing of the cafe by the owner on June 21 and administration of immune serum globulin to household contacts by private physicians. An ISG immunization campaign for local residents was carried out on July 15 in an effort to reduce the extent and severity of secondary spread.

(Reported by John A. Harrel, Jr., M.D., Director, Division of Communicable Disease Control, Arkansas State Department of Health; R. LeRoy Carpenter, M.D., Director, Division of Epidemiology, Oklahoma State Department of Health, Calvin D. Austin, M.D., Health Officer, and Myrideth Lawrence, Public Health Nurse, Polk County Health Department; and a team from CDC.)

FOLLOW-UP SKUNK RABIES - Oregon and Washington

Investigation by health officials in Oregon and Washington of a case of rabies in a pet skunk has revealed no other related cases (MMWR, Vol. 19, No. 28). The one case first came to attention on July 16 when a Seattle woman reported to the local health authorities that she had been bitten on the arm and leg by her pet skunk. The pet had exhibited viciousness for several days. He was sacrificed and found positive for rabies virus on July 20. The woman was given antirabies serum (equine) and begun on a course of duck embryo vaccine.

This skunk had been purchased from a retail pet dealer in Seattle on June 13, who had obtained the animal from a skunk farm in Wolf Creek, Oregon. Health officials in Josephine County (Wolf Creek) found that this skunk farm had been abandoned and that the whereabouts of the owner was unknown. On July 21, an appeal went to radio, television, and newspapers to help in locating the owner of the farm. Within 6 hours, the owner telephoned health authorities. He had obtained the skunks from 14 pregnant or just delivered wild female skunks at the end of February and early March and had shipped the 69 baby skunks in four shipments to three pet stores, one in Seattle and two in metropolitan Portland. The pet store owners and purchasers of skunks were contacted. Appeals through mass media

located purchasers whose names were not available through the pet stores.

A history of skunk bites or other exposure was obtained from these persons. In Oregon 30 skunk bites were reported among 146 possible household contacts (20.5 percent) and 12 bites were reported among 127 nonhousehold contacts (9.4 percent). In Washington 30 bites were reported among 70 exposed persons (43 percent). Of the 37 skunks that were sold in Oregon, 23 had bitten someone; of the 20 skunks sold in Washington, 14 had bitten someone. Thirteen persons in Washington and seven persons in Oregon whose skunks had been lost or had died prior to investigation and who had exposure warranting treatment were begun on antirabies therapy. Three others in Oregon were started on therapy; treatment was discontinued when their skunks were found negative for rabies.

Forty-seven skunks were rendered for examination for rabies, 20 were not available for examination, and one skunk was retained by its owner (Table 2). All 45 animals examined subsequent to the initial case have been negative; results on the other two are pending.

(Reported by Morris Chelsky, M.D., Director, Epidemiology Section, Monroe Holmes, D.V.M., Public Health Veterinarian, and Gatlin Brandon, Director, Laboratory, Oregon State Board of Health; Frank Watts, D.V.M., Epidemiologist, and William Lee, Laboratory, Multnomah County Health Department; Edmund Wall, M.D., Health Officer, Josephine County Health Department; Byron J. Francis, M.D., Chief, Epi-

Table 2
Skunk Investigation Status
Oregon and Washington — July 28, 1970

Number of Skunks	Oregon	Washington	Total
Positive for Rabies	0	1 (initial case)	- 1
Negative for Rabies	30	15	45
Examination Results			
Pending	0	2	2
Lost or Died Prior to			
Investigation	14	6	20
Not Submitted for			
Examination	1	0	1
Total	45	24	69

demiology, and F. Christman and Vernon Ashby, Laboratory, Division of Health, Washington State Department of Social and Health Services; Donald Peterson, M.D., Epidemiologist, Paul Bonin, Director, and Evelyn Tronca, Assistant Director, Laboratories, and R. B. Watkins, D.V.M., Public Health Veterinarian, Seattle-King County Department of Public Health; Donald A. Champaign, M.D., Health Officer, Southwest Washington Health District; Lauren Lucke, M.D., Health Officer, Grays Harbor-Pacific Health District; Harlan T. McNutt, M.D., Pierce-Tacoma Health District; Vernon E. Michael, M.D., Health Officer, Benton-Franklin Health District; and six EIS Officers.)

CURRENT TRENDS ASEPTIC MENINGITIS - Florida

Through July 10, 150 cases of aseptic meningitis have been reported from Florida for 1970, compared with 40 cases reported for the same period in 1969. Most of the cases (114) have been reported since May 22 (Figure 2). Of the 150 cases reported thus far, 85 were from Dade County (Miami) and 26 from Duval County (Jacksonville). The others were reported from 16 other counties, with none recording more than seven cases.

Figure 2
ASEPTIC MENINGITIS BY WEEK OF REPORT
FLORIDA - 1970

Table 3

Age and Sex Distribution of Aseptic Meningitis Cases

Florida — 1970

Age Group (Years)	Male	Female	Total
<1	19	14	33
1-4	27	10	37
5-9	20	17	37
10-14	12	5	17
15-19	4	4	8
≥20	5	4	9
Total	87	54	141

Age and sex were known for 141 patients (Table 3). Males accounted for 61.7 percent of the cases, and nearly one-half of the cases (49.6 percent) were in persons under 5 years of age.

To date, two patients have had Echovirus type 9 isolated from cerebrospinal fluid, and another has had Echovirus type 6 isolated from his stool.

(Reported by E. Charlton Prather, M.D., Chief, Bureau of Preventable Diseases, Nathan J. Schneider, Ph.D., Chief, and Elsie E. Buff, Virologist-in-Charge, Bureau of Laboratories, Florida Division of Health.)

ENTEROVIRUS SURVEILLANCE - January-June 1970

Since 1961, many state health departments have reported to the CDC all enteroviruses isolated in their laboratories, regardless of the clinical syndrome. This Enterovirus Surveillance Program was initially undertaken through the auspices of the Joint Liaison Committee of the Conference of Territorial Epidemiologists and the Association of State and Territorial Public Health Laboratory Directors. Since that time, CDC has received monthly reports from state epidemiologists or laboratory directors (depending on the reporting system established within a given state), regarding enteroviruses isolated in the state health department laboratory and, in some cases, isolations made in other virus diagnostic laboratories in the state. Results of these reports have been published periodically (MMWR. Vol. 19, No. 1). Prior to 1970, only the total number of isolations of a given virus were reported. For 1970 the reporting form has been revised to incorporate information regarding age, sex, date of onset, and clinical syndrome for persons from whom an enterovirus has been isolated.

During the first 6 months, reports concerning enteroviral isolations from 113 persons were received from 14 of the 53 state and territorial reporting areas. Areas reporting during this period were Connecticut, New York City, New York State, Pennsylvania, Michigan, Minnesota, Kansas, Virginia, North Carolina, Kentucky, Tennessee, Alabama,

Table 6

Enteroviruses Associated with Neurologic Illness*
by Age Group and Virus type

			Ag	ge Gro	up	
Agent	0-4	5-9	10-29	≥30	Unknown	Total
Coxsackie A1				1		1
A6	2					2
A7	1					1
A25	1				1	1
B1				l	1	1
B2	Ì		2		2	4
B3		1	1 1			2
B4	3		1			4
B5	1					1
B6					1	1
Echovirus type 3	1					1
4	1	2	2		3	8
6	2	$\begin{vmatrix} 2 \\ 7 \end{vmatrix}$	2		1	14
9		1				1
14	:		1			1
25	5		1 2			2
Poliovirus type 1	3					3
3	ĭ	1				2
Total	15	12	13	1	9	50

^{*}Syndromes of aseptic meningitis, encephalitis, meningoencephalitis, or paralytic disease

Table 4
Enteroviruses Isolated by Reporting Area and Virus Type

Virus Type	Conn.	NYC	NYS	Pa.	Mich.	Minn.	Kan.	Va.	N.C.	Ky.	Tenn.	Ala.	La.	Tex.	Wyo.	Tota
Coxsackie A1			1													1
A2									1							1
A5			1	1												
A6					3											:
A7					1									1		
A9		-					1							1		
A16					3											
A25														1		
Coxsackie B1		2	1		1										Į	
B2		$\frac{2}{2}$	1					1								- 1
B3					2 2	2										
B4		3			-	~			3		,			6		1
B5		"				2		1					1			
B6		1				~		,					_	l		
		_														3.
Echovirus 2								1					1			
3	_				1									,,		1
$rac{4}{6}$	1 1			_ =	2 9		3	ļ	2			1		7		1
9	1	1	1		9	ļ	0		$\frac{2}{2}$			1		1		1
11							1		2	10.1		1	1	1		1
14				1			1	1				ì	1	1		
17						1		1								
18						1	1			-		1				
22			1				1			1 1	1				1	
25			1				1			-				2		
30				1			1				25.1			_	5.0	
												1				1
Poliovirus 1	4					1			3	1			l .	4	1	- 1
2	5			1			1						1			
3	2	L	L	<u> </u>		1		<u>L.</u>	4					1		-
Total	13	9	5	2	24	7	7	2	15	0	0	1	4	24	0	11

Table 5
Enteroviruses Isolated by Clinical Syndrome and Virus Type

Virus Type	Aseptic Meningitis	Encephalitis	Meningo- Encephalitis	Polio	Other	Unknown	Total
Coxsackie A1		11-11		1			1
A2						1	1
A5					1		1
A6	1	1	i		1		3
A7	ļ		1				1
A9						2	2
A16					2	1	3
A25		1					1
Coxsackie B1	1				3		4
B2	1 3	1				1	5
B3	-		2			2	4
B4	3	1	_		3	2 5 2	12
B5				1		2	3
В6	1						1
Echovirus 2					1		
3				-	1		1 1
4	1 3	5				9	10
$\hat{6}$	4	5 5	5			2 3	17
9	-	The state of the s	1		3		4
11			_		1	2	3
14	1				_		1
17						1	1
18						1	1
22					1		1
25	2					1	3
30					1		1
Poliovirus 1				3	6	3	12
2					4	3	7
3	A CONTRACTOR OF	2			4	2	8
Total	20	16	9	5	31	32	113

Louisiana, Texas, and Wyoming (Table 4). These reports summarize isolations made during the 6-month period and do not reflect dates of onset of the patient's clinical illness, which ranged from July 1969 to June 1970. Clinical syndrome and type of enteroviral isolation from the 113 patients are shown in Table 5. A syndrome of neurologic illness (aseptic meningitis, encephalitis, meningoencephalitis, or paralytic disease) was reported for 50 of the 113 reported cases. Although the numbers involved are small, it is of interest that some agents (e.g. echovirus type 6) were isolated more frequently from persons with neurologic

illness than from persons with non-neurologic syndromes.

The 50 cases for which neurologic illness was associated with enteroviral isolation are shown by age group in Table 6. Of these 50 cases, 25 occurred in males and 19 in females, with sex unrecorded in six of the cases. Only one case occurred in a person over the age of 30 years; this patient was 38 years old.

(Reported by the Neurotropic Viral Diseases Unit, Epidemic Program, and the Enteric Virology Unit, Laboratory Division, CDC.)

INTERNATIONAL NOTES SMALLPOX - Brazil (1-2)

Since 1967, Brazil has been the only country in the Americas endemic for smallpox, with all reported cases occurring in Brazil or as a result of importation from Brazil. Because of this, there has been increased interest in the progress of the smallpox eradication program which was initiated in 1962 in northeastern Brazil. In 1967 the existing program was intensified and expanded to include the more populous southeastern and southern states.

From 1962 to 1966, 6.4 million vaccinations were registered (Table 7). In 1967, the first full year of expanded operation, 6.6 million vaccinations were performed. This

total was almost doubled in 1968 when 12.2 million vaccinations were recorded. In 1969 almost 21 million persons were vaccinated. In 1970 as of June, 20.9 million persons have been vaccinated, bringing the cumulative total of persons registered as vaccinated to 67 million. Thus 70 percent of the estimated Brazilian population has been vaccinated.

The systematic vaccination program has been completed in eight of the nine states of the northeastern region and in Espirito Santo, Rio de Janeiro, Sao Paulo, Parana, (Continued on page 286)

SMALLPOX - (Continued from page 285)

Goias, and the Federal District (Brasilia) (Figure 3). Vaccination programs are in progress in Bahia, Minas Gerais, Santa Catarina, and Rio Grande do Sul. Vaccination should commence in Mato Grosso and Para in 1970, with the five remaining areas (Amazonia) scheduled for 1971.

An assessment survey method, developed and field tested in February 1968, has been in operation since April 1968 (3). A team of two assessors visits each urban locality and a sample of rural localities in each municipio (county), 7 to 14 days after completion of vaccination. In a random sample of households, vaccination coverage is ascertained for all residents, and all primary vaccinees under 5 years of age are examined to determine the primary vaccination take rate.

An increased emphasis on surveillance and epidemic investigation contributed to a marked increase in the number of cases reported in 1969 (Figure 4). This increase was confined to those states in which the vaccination campaign has not yet been completed or had not been initiated (Table 8). In the 12 states where the attack phase had been completed by June 1969, there was an 80 percent decrease in the number of cases reported compared with the previous year. This decrease contrasts with the 99 percent increase in notified cases in the other 15 states.

In the northeastern region (excluding Bahia, where the program is still in progress in 1970), an abrupt drop in smallpox was seen in 1967, although the annual seasonal increase was still evident (Figure 5). In 1968 and 1969 the incidence declined further and no seasonal increase

Figure 3
STATUS OF SMALLPOX VACCINATION PROGRAM
BRAZIL - JUNE 1970



Figure 4
REPORTED SMALLPOX CASES BY FOUR-WEEK PERIOD
BRAZIL - 1967, 1968, AND 1969

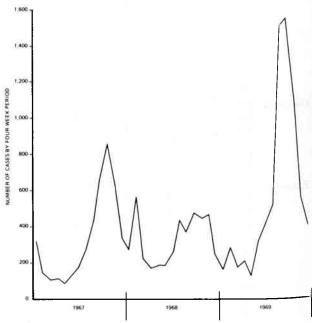


Table 7
Number of Smallpox Vaccinations by Year in the
Systematic Vaccination Program — Brazil, 1962-June 1970

	Number of Vaccinations (Millions)						
Year(s)	Number	Cumulative					
1962-66	6.4	6.4					
1967	6.6	13.0					
1968	12.2	25.2					
1969	20.9	46.1					
1970 through June	20.9	67.0					

Figure 5 SMALLPOX CASES BY MONTH OF REPORT NORTHEAST REGION* — BRAZIL — 1965-1969

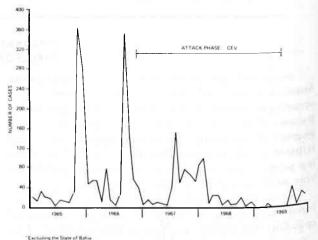
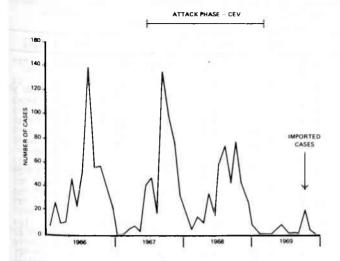


Figure 6 SMALLPOX CASES BY MONTH OF REPORT STATES OF RIO DE JANEIRO AND GOIAS AND THE FEDERAL DISTRICT - BRAZIL - 1966-1969



was observed. In the states of Rio de Janeiro, Goias, and the Federal District, smallpox incidence decreased in 1968 although a seasonal increase occurred as in previous years (Figure 6). In 1969, 21 imported cases were recorded; however, indigenous smallpox had disappeared.

under 15 years of age and 93 percent were under 30 years

Table 8 Reported Smallpox — Brazil, 1969 and 1968

	Number of	Cases Reported					
Campaign Status 1969	States	1969	1968	Difference (Percent)			
Completed	12	146	715	-79.6			
Not Completed	15	7,261	3,657	+98.6			
Total	27	7,407	4,372	+69.4			

of age. Since 1956, the case fatality rate has varied annually from 0.5 to 3.3 percent. In addition to the epidemiologic data, laboratory tests have demonstrated that variola minor has been the only form of variola present in Brazil in recent

Based on investigation of notified cases, reporting is estimated to have been no more than 2 to 3 percent complete prior to 1969. The efficacy of smallpox vaccine in preventing smallpox was appraised utilizing data from 22 investigations with more than 2,000 cases. The reduction in expected cases among the vaccinated was 94 percent.

(Reported by the Smallpox Eradication Program, Center for Disease Control.)

References

- Ministerio da Saude, Brasil: Boletim Semanal da Campanha de Erradicacao da Variola 4(1,4,20, and 26), 1970
- (2) World Health Organization Weekly Epidemiological Record 45(19):209-221 and 45(3):17-27, 1970
- (3) Lavigne de Lemos A, Morris L.: Avaliação na Campanha de Erradicação da Variola. Bras Estat 30(119):300-302, 1969

In 1969, 74 percent of cases occurred in individuals

QUARANTINE MEASURES

Recently a booklet, Vaccination Certificate Requirements for International Travel, was published as a supplement to the Morbidity and Mortality Weekly Report, Vol. 19, No. 21, for the week ending May 30, 1970. This booklet, designed primarily for the use of health departments and physicians, contains immunization requirements of individ-

The Foreign Quarantine Program, CDC, has prepared a new booklet entitled Health Information for International

Travel (PHS Publication No. 2045) which provides detailed information on required and recommended immunizations for travel to most countries. PHS Publication No. 2045 replaces the booklet Immunization Information for International Travel (PHS Publication No. 384) and is available from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, at 10 cents per copy or \$6.50 per 100 copies.

(Reported by the Foreign Quarantine Program, CDC.)

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 25, 1970 AND JULY 19, 1969 (29th WEEK)

	ASEPTIC	BRUCEL-	BRUCEL- DIPH-		HEPATITIS		MALAI	OT A			
AREA	MENIN- GITIS	LOSIS	THERIA		including cases	Post In- fectious	Serum	Infect	ious	FIALA	
	1970	1970	1970	1970	1969	1970	1970	1970	1969	1970	Cum. 1970
UNITED STATES	169	3	1	38	24	12	134	1,050	823	40	1,925
NEW ENGLAND	3	_	_	1	_	_	_	78	66	1	58
Maine	-	-	-	<u> </u>	-	_ =	-	9	2	-	5
New Hampshire					_	_		5	3	_	3
Vermont	2		_	_	_			42	1 30	1	30
Rhode Island	1		_	_	_		_	10	21	_	9
Connecticut	-		-	1	1	-		12	9	-	8
MIDDLE ATLANTIC	6	_		1	_	2	38	186	175	3	213
New York City	4	-	_	<u> </u>	_	i -	21	63	40		26
New York, Up-State	2	-	- 1	-		2	3	26	36		62
New Jersey							10	38	38	3	54 71
Pennsylvania	100		V V	1	_	_	4	59	61		
EAST NORTH CENTRAL	10	_	-	14	10	1	40	158	103	1	104
0h10	5	190	-	6	6	- 1	1	29	25	-	22
Indiana	1 2				-	- 1	-	7	5		10 28
Illinois	2	100	-	8	1 3	1	6 33	24 92	24 46	1	44
Wisconsin			-			-		6	3		- 1
WEST NORTH CENTRAL	2	1		1	1	_	2	38	46	4	152
Minnesota	2		_		<u>-</u>			5	5	-	18
Iowa	-	1	-	_	_		_	6	3	4	14
Missouri	-	_	-	-	- 1	-	-	11	20	_	17
North Dakota	_			_	1 1	-		1	. 1		2
South Dakota Nebraska		_		3				4	1 12		2
Kansas		-		1	-	-	2	10	4	-	98
SOUTH ATLANTIC	71			10	2	4	9	116	47	10	364
Delaware	- '-	F -		1 '0		-		126	47 1	10	1
Maryland	1	_		_	_	_	4	19	15	1	36
Dist. of Columbia	20	-	-	I -	_	_		3	-		2 45
Virginia	4	_	_	1	2	_	- 1	33	11	3	6
North Carolina	1	_		1 7	<u> </u>		4	1 24	8	_ 2	147
South Carolina	1	-	_	2	_	_	-	8	5	1	31
Georgia	- 44	-	_	-	-		-	14	6	2	62
Florida	44		-	6	_	4	. 1	24	-	1	
EAST SOUTH CENTRAL	6	-	· _	3	1	-		62	= 89	2	143
Kentucky		-	-	2	= -	_	-	25	56	-	119
Tennessee	4 1			1	1 1	_	I	29 5	8 13	1	14
Mississippi	1	-	_	-	_	_	=	3	12	i	10
WEST SOUTH CENTRAL	13	2	_	2	4						349
Arkansas	1		II I				3	66	58	3	7
Louisiana	6	-		-	4	- 1	2	15	12	2	23
Oklahoma* Texas*	6	2	1 21	2	_		1	47	4 42	2	57 262
	7									-	154
MOUNTAIN	1	_	2.0		· = 2	1 1	8	76 2	49 2	_	6
Idaho		_		_	_		<u> </u>	2	1	_	3
Wyoming	-			SMU al i	-	A 15 - 1	_	1	_	-	423
Colorado	-	-	-	-		- 1	3	39	25	_	133
New Mexico			2.0	1 -	_	_	1 2	8	4	_	6
Utali.			m_2 k	- I	_ a		2	17	12 5		2
Nevada	-	-	-	-	-	-		1	-	-	-
PACIFIC	57	Jul 24	1	6	5	4	34	260	190	16	388
Washington	-	-	7	-	-	- 1	4 4	17	4	- 1 - 4	33 14
Oregon.	27	T	1	1	-	7	2	19	13	=	249
California	37 17		=	4	5	4	32	202	171	7	-
Hawaii	3		1	1			Ξ	21	2	9_	92
Puerto Rico*		a/	-1-8					7	20		7
Virgin Islands		_	-	1111	-	_	-	14	20	_	

*Delayed Reports: Hepatitis, serum: N.J. delete 1, Utah delete 1, P.R. 1
Hepatitis, infectious: N.J. delete 4, Okla. 1, P.R. 2
Malaria: N.H. 2, Iowa 1, Tex. delete 1, Ariz. 1

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 25, 1970 AND JULY 19, 1969 (29th WEEK) - CONTINUED

	MEA	SLES (Rube	ola)	MENINGO	COCCAL INFI	ECTIONS,	MUMPS		POLIOMYELITIS		
AREA		Cumu1	ative		Cumula	tive		Cum.	Total	Para	lytic
	1970	1970	1969	1970	1970	1969	1970	1970	1970	1970	Cum. 1970
UNITED STATES	476	37,838	19,049	52	1,643	2,132	797	70,946		-	15
NEW ENGLAND	27	865	1,018	1	73	70	70	0 571			
Maine	5	193	5		3	6	1	8,571 655			
New Hampshire.*	-	49	237	1	7	2	i	315	_		
Vermont	_	8	3		6	_ [573	_	_	_
riassachuset ts	12	418	180	_	32	31	23	2,688	_		_
Anode Island	8	118	22		5	6	24	1,420	_		_
Connecticut	2	79	571	_	20	25	21	2,920	-	-	-
IDDLE ATLANTIC	95	4,592	7,167	15	293	339	131	7,134		_	_
New York City	15	807	4,736	3	74	69	53	2,500	_		_
New York, Up-State	2	217	573	1	54	56	NN	NN NN	_		
New Jersey	14	1,646	846	10	114	141	57	2,018	_		
Pennsylvania	64	1,922	1,012	1	51	73	21	2,616	_	_	_
		_	-								
Chic	129	9,338	1,950	-	188	296	172	18,749		-	1
01110	35	3,690	348	-	75	113	59	3,352	-		
Indiana	2	257	453	-	18	34	28	1,698	-	_	_
Illinois.	14	2,994	418	-	42	41	16	1,648	-	_	-
"ICNIgan.	58	1,551	214	-	46	90	51	4,714	-	-	
Wisconsin. #	20	846	517	-	7	18	18	7,337	-	_	- 1
MINDS CENTRAL	18	3,731	494	7	85	112	16	3,647		-	1
"*" lesora		36	5		12	25	3	339	_		
LUWA W	4	1,046	324	_	11	15	3	2,260	_	_	_
"ISSOurf.	12	1,247	16	5	51	48	6	247	_		1
"Ofth Dakota	- i	315	10	-	3	70	ĭ	255	_	1 -	_
Douth Dakota	-	91	3	_	_	1	<u> </u>	36	_	_	_
"curacka	_	923	132	2	5	9	3	374	_	_	_
Kansas	1	73	4	-	3	14	-	136	_	_	_
Delaware	59	6,942	2,380	10	343	379	141	8,000		V - 10	a event find
Maryland	1 10	256	373	_	3 33	5 35	5	265	3 I i		112394
Dist. of Columbia.		1,358	63				18	846		144 Tells	GH MILLY
Virginia.	20	342	0.67		1 1	8	2	182	-	10000	ACTE OF
West Virginia.*	3	1,936 286	867 166	3	35	48 18	43 41	1,858 1,952	-		111
North Carolina.	11	819	303	2	69	67	NN	1,952 NN			terrie 1
South Carolina	4	547	108	2	44	53	8	778		1-1	ERECT I
Georgia.	1				30	64		//8	_	P	
Florida	9	13 1,385	1 499	3	121	81	24	2,119	= =		- 1
EAST		.,		_							
EAST SOUTH CENTRAL	43	1,210	102	4	127	136	39	4,045	-		-
Kentucky	41	687	60	2	45	49	14	1,438	_		-
Tennessee	2	348	17	2	54	51	24	2,331	-		-
Alabama.	-	87	3	-	21	21	1	230	_	_	_
Mississippi	-	88	22	-	7	15	-	46	-	·	_
ATKANSAS	50	7,306	4,230	4	226	285	56	6,834	_	_	12
Arkansas		29	16	1	19	28	4	116		_	_
	_	89	120	1	58	74	_ 1	25	_	_	_
	4	438	136	_	18	29	6	2,388	_	_	_
***********	46	6,750	3,958	2	131	154	45	4,305	on -	-	12
MOUNTATA											-
Montana	21	1,443	750	1	30	37	46	3,192	_		
Idaho	6	40	16	-	= <u>1</u>	5	17	654	-	-	-
Wyomine	-	32	88	-	5	6	3	86	-		_
Colorada		11		=	1	= = 1		30	-	-	-
New Mand	5	168	115	1	8	6	8	1,037	-	-	-
Arizon	4	183	226	_	- 12	6	-11	616	-	-	_
Utah	6	956	297	-	13	10	7	649	-	_	_
Nevada	_	32 21	7	_	2	2 2		120	_		
PACTON			'	-	_		_		_	_	
PACIFIC. Washington	34	2,411	958	10	278	478	126	10,774	_	_	_
Washington	1	495	57	1	38	50	5	4,113	_	_	_
Oregon.		214	195	1	21	11	13	934	_	_	
California	22	1,392	671	ż	217	396	62	4,373	_	_	_
Alaska Hawaii	-	134	8	-	-	11	7	375	_	_	-
	11,	176	27	1	2	10	39	979	-	-	-
Puerto Rico	12	857	1 224		4	15		663			
Virgin Islands	12	657	1,224 36	-	1	15	4	663			
Delayed Par		٥	36		<u>'.</u> '.						

elayed Reports: Measles: Iowa 31, W. Va. delete 1, Okla. 8 Meningococcal infections: N.H. 1

Mumps: N.H. 1, Okla. 5 Poliomyelitis, paralytic: Wis. 1

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 25, 1970 AND JULY 19, 1969 (29th WEEK) - CONTINUED

AREA	RUBELLA		TETANUS		TULAREMIA		TYPHOID FEVER		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970	1970	Cum. 1970
UNITED STATES	393	47,542	- 1	61	7	68	7	143	22	175	60	1,77
NEW ENGLAND	29	2,305	-	3	_	102	498	5	===	_	3	6
Maine	2	379	-		_	_	_	1,12	2	-	1	2:
New Hampshire	-	150	-		-	-	-	_	-	-	-	10113
Vermont	-	49	-		-	-	-	-	-	-	1	3
Massachusetts	17	1,100	-	2	-	-	- "	3	-	-	-	
Rhode Island	7	88 539	Ξ	1	Ξ	Ξ	-	2		=	ī.	
IIDDLE ATLANTIC	50	3,815	-	5	_	- 1	3	37	_	8	6	16
New York City	12	536	-	2	-	_	1	= 11	_	-	-	- TIO. 5
New York, Up-State	3	384	-	-	-	1	2	12	-	4	5	15
New Jersey	30	839	-	2	-	-	- 1	6	-	2	-	1
Pennsylvania	5	2,056	-	1	-	-		8	- 1	2	1	
EAST NORTH CENTRAL	86	9,856	-	13	1	18	1	20	-	-	6	13
Ohio	15	1,985	-	1	-	2	1	8	18	-	2	3
Indiana	14	1,746	-	5	-	13	-	-1	-	-	2	1
Illinois	10	1,670	-	3	-	2	- 2	3	-	_	1	1
Michigan	27	2,510	-	4		7-4	- 11/	7	-	-	1	2
Wisconsin	20	1,945	-	_	1	3 11 1		1	-	-	-	
EST NORTH CENTRAL	15	3,218	-	4	1	14	-	5		1	14	33
Minnesota	_	116	-	1	-	1 1	-	1	-	-	5	6
Iowa	1	1,986	-	1	1	12	-	1	-	1	- 1	
Missouri	14	395	-	1	1	12	_	1	-	1	_	2
North Dakota		124	_	1	_	1 1	=	- 13		=		ē
South Dakota	- 2	541	_		_	-	12	2	_	_		
Nebraska	-	55	-	/ 5=	_	-	-	-	-		8	•
OUTH ATLANTIC	35	6,056	1	12		8	3	22	18	126	14	36
Delaware	-	41	-	(-)	-	-	_	_	-	4	-	
Maryland	1	307	-	-	-	1 3 -	-	6	1	9	-	->=0
Dist. of Columbia	- 1	18	-	1	-	-	· · ·	-	-	h.	-	16
Virginia	7	672	-	2.00	-	1	-	2	6	32	5	16
West Virginia	11	1,218		1.5	-	1 0 T	-	-	2	4	2	
North Carolina	-	37	1	1	-	4	-	2	8	46	-	
South Carolina	3	606	-	1	-	2	-	7	1	27	4	
Georgia	12	3,157	υŒ	1 8	45	1	3	5		4	3	5
AST SOUTH CENTRAL	42	2,482	_	4	_	2	20	9	3	17	3	13
Kentucky	10	889	-	F8.4	_	1	-	1	1	1	3	
Tennessee	32	1,261	-	1	-	1		5	2	10		
Alabama	-	254	-	3	-	-	-	3	-	3	-	
Mississippi	-	78	· -	11,=	-	(-	- 1	-	-	3	-	1 10
EST SOUTH CENTRAL	47	8,440	-	11	3	16		11	_ :	17	9	32
Arkansas.*	1	34	-	3	3	8	-	2	-	5	1	
Louisiana	-	146	-	2	-	2	-	1		17	7	
Oklahoma	45	806 7,454	=	- 6		4 2		8		11	4	1
DUNTAIN	24	1,866		50m	1	5	-	8	1	5	- 1	- 17
Montana	i	301	_	-	_		_	1	1	1	-	-
Idaho	1	174	-	_	-	-	-	_	_	1	-	- 1 11
Wyoming	-	133	-	-	-	-	-	-	-	1	-	100
Colorado	2	371	-	-	-	-	-	2	-	2	-	
New Mexico	14	194	-		-		-	5	-	-	_	
Arizona	4	535	-	-	-	-	-	_	-	-	_	100
Utah Nevada	2	158	-	11.5	1	5	=	1 =	Ξ		ī	7.75
The second secon	65	9,504	12	9	1	4	214	26	: 11/20	1	4	1
ACIFIC	65	4,574		2	- 1	ì		3	_		1	100
Washington	22	783	_	3	_	- 2	-	714	<u> </u>	_	-	-1-69
Oregon	30	3,856	_	4	10.00	3	-	20	_	1	3	13
Alaska	4	93	-	2	_	1.2	-	2	-	_		1.5
Hawaii	9	198	-	11 -		-	-	- 1	-		-	
uerto Rico		26	-	5	-	-	148	3	_	-	2	LUZ.
irgin Islands	_	-	-	_	-	_	-	_	_	-	_	

^{*} Delayed Reports: Typhoid fever: Ark. delete 1 Rabies in animals: S. Dak. 43

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 25, 1970

20

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

Area	All Ca	uses	Pneumonia	Under		All Ca	uses	Pneumonia	
	A11	65 years	and	l year	Area	All 65 years		and	l year
RIV	Ages	and over	Influenza All Ages	All Causes		Ages	and over	Influenza All Ages	All Cause
NEW ENGLAND:	636	349	46	29	SOUTH ATLANTIC:	1,175	567	45	
Boston, Mass	202	96	12	14	Atlanta, Ga	138	64	4	
Bridgeport, Conn	45	28	4	2	Baltimore, Md	210	105	3	l
Cambridge, Mass	20	12	- 8	1	Charlotte, N. C	49	16	1 1	
Fall River, Mass	20	13	_	<u>-</u>	Jacksonville, Fla	84	37	4	
Hartford, Conn	53	21	2	2	Miami, Fla	105	45	2	
Lowell, Mass	14	10	Ī	_	Norfolk, Va	50	24	3	ļ
Lynn, Mass	17	12	1	_	Richmond, Va	93	45	6	
New Bedford, Mass	14	12	4	_	Savannah, Ga	28	11	ĺ	
New Haven, Conn	49	24		5	St. Petersburg, Fla	84	68	2	
Providence, R. I	52	25	6	1	Tampa, Fla	75	34	8	
Somerville, Mass	12	10	1	-	Washington, D. C	215	100	l š	
Springfield, Mass	49	29	5	1	Wilmington, Del	44	18	2	
Waterbury, Conn	29	18	_	2			'*	-	İ
Worcester, Mass	60	39	2	1	EAST SOUTH CENTRAL:	654	352	25	i
					Birmingham, Ala	95	55	2	
IIDDLE ATLANTIC:	3,229	1,841	125	183	Chattanooga, Tenn	71	41	2	
Albany, N. Y	45	23	1	3	Knoxville, Tenn	33	19	1 1	
Allentown, Pa	40	23	2	1	Louisville, Ky	117	62	1 10	
Buffalo, N. Y	160	93	ī	و	Memphis, Tenn	153	80	5	
Camden, N. J	38	19	3	5	Mobile, Ala	50	30] 3	
Elizabeth, N. J	28	12	2	ĺĺí	Montgomery, Ala	49	21	l ĭ	
Erie, Pa	43	27	ī	5	Nashville, Tenn	86	44	i i	
Jersey City, N. J	78	49	3	5	Mashville, lenn	00	""	'	
Newark, N. J	101	31	4	26	WEST SOUTH CENTRAL:	1,078	527	31	
New York City, N. Y. +	1,630	947	50	79	Austin, Tex	35	14	1	
Paterson, N. J	55	37	11	3	Baton Rouge, La	41		1	
Philadelphia, Pa	396	220	7	19	Corpus Christi, Tex		24	2	
Pittsburgh, Pa	202	117	13		Dallas, Tex	25	_		1
Reading, Pa			13	7		151	66	3	1
Rochester, N. Y	52	33		l	El Paso, Tex	31	15	2	
	106	61	14	11	Fort Worth, Tex	88	47	3	
Schenectady, N. Y	27	16	2	1	Houston, Tex	223	107	5	
Scranton, Pa	41	25	2	-	Little Rock, Ark	52	22	4	
Syracuse, N. Y	80	46	1	4	New Orleans, La	142	60	_	
Trenton, N. J	48	26	2	3	Oklahoma City, Okla	65	31	2	
Utica, N. Y	32	19	2		San Antonio, Tex	110	63	2	
Yonkers, N. Y	27	17	4	1	Shreveport, La	55	31	2	
AST NORTH CENTRAL	Ta 120				Tulsa, Okla	60	38	5	1
AST NORTH CENTRAL:	2,476	1,398	58	127					
Akron, Ohio	61	32	-	7	MOUNTAIN:	431	257	21	
Chicago 713	25	18	1	l	Albuquerque, N. Mex	40	22	7	
Chicago, Ill.	703	380	14	43	Colorado Springs, Colo.	37	17	2	
Cincinnati, Ohio	194	112	3	9	Denver, Colo	126	81	4	
Cleveland, Ohio	195	118	3	9	Ogden, Utah	10] _7	3	1
Columbus, Ohio	92	45		7	Phoenix, Ariz	106	65	3	
Dayton, Ohio	67	42	3	2	Pueblo, Colo	19	14	2	
Detroit, Mich	349	184	10	18	Salt Lake City, Utah	48	27	7.5	l
Evansville, Ind	44	29	1	2	Tucson, Ariz	45	24	77.0	
Flint, Mich.	49	19	-	5	1-,,,,,,				
Fort Wayne, Ind	31	20	1	2	PACIFIC:	1,594	930	29	
Gary, Ind.	26	16	2		Berkeley, Calif	21	14	-	
Grand Rapids, Mich	44	25	5	2	Fresno, Calif	52	30	1	
Indianapolis, Ind	152	78	3	11	Glendale, Calif	22	13	-	-
Madison, Wis	39	21	2	1	Honolulu, Hawaii	41	18	1	
Milwaukee, Wis	138	87	3	3	Long Beach, Calif	80	55	-	
Peoria, Ill	47	27	-	1	Los Angeles, Calif	513	314	11	
Rockford, Ill	37	24	1	1	Oakland, Calif	71	39	1	
South Bend, Ind	25	14	3	1	Pasadena, Calif	35	19	1	
Toledo, Ohio	105	76	3	1	Portland, Oreg	134	87	3	
Youngstown, Ohio	- 53	31	1	2	Sacramento, Calif	62	37	_	
ST NORTH TE					San Diego, Calif	94	47	2	
EST NORTH CENTRAL:	786	474	20	44	San Francisco, Calif	175	92	1	44
Des Moines, Iowa	43	28	_	2	San Jose, Calif	59	34	2	
Duluth, Minn	23	14	3	1	Seattle, Wash	138	73	4	-
Kansas City, Kans	36	15	1	5	Spokane, Wash	45	24	2	
Kansas City, Mo	116	68	-	10	Tacoma, Wash	52	34	-	
Lincoln, Nebr	29	18	-	1				1	
minneapolis, Minn	109	73	3	6	Total	12,059	6,695	400	
omaha, Nebr	61	39	1	2				†	
St. Louis. Mo	230	134	2	10	Expected Number	12,092	6,903	341	
St. Paul, Minn.	7 8	53	3	3	Cumulative Total		1		
Wichita, Kans	61	32	7	4	(includes reported corrections for previous weeks)	382.451	218,850	15,645	17,8
			-		*Mortality data are being collected		•		
Vegas, Nev.*	9	5	_	_	table, however, for statistical reason				
0 -)									

Delayed Report For Week Ended July 18, 1970

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 21,000 IS PUBLISHED AT THE CENTER FOR DISEASE CONTROL.

DIRECTOR, CENTER FOR DISEASE CONTROL DIRECTOR, EPIDEMIOLOGY PROGRAM

DAVID J. SENCER, M.D. PHILIP S. BRACHMAN, M.D.

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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 AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

OFFICIAL BUSINESS

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